IROAST
International Research Organization for Advanced Science & Technology

IROAST
Integrated Report 2016-2025

Kumamoto University

IROAST Integrated Report

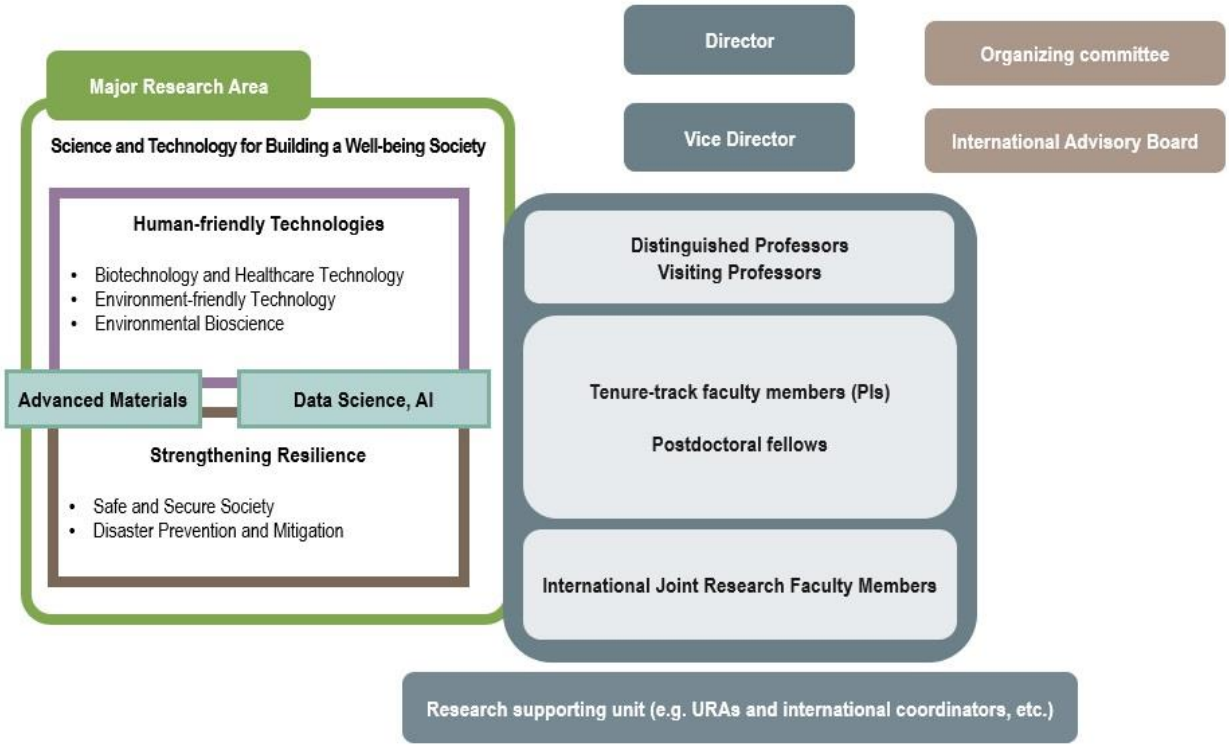
Table of Contents

Establishment

The International Advanced Science and Technology Research Organization (IROAST) was established in April 2016 to enhance international research capabilities in the natural science fields of the university. In collaboration with the university's research organizations in the natural sciences, IROAST has achieved many outstanding results by promoting international joint research with world-class universities and research institutions as well as launching cross-disciplinary research projects, such as medical-scientific collaborations. In addition, we invite outstanding researchers, and we are working to improve our international recognition by holding international symposiums and publishing the results of their research in international co-authored papers.

Furthermore, we are working to nurture internationally competitive researchers who can work at the forefront of global research by utilizing a tenure-track system, supporting research expenses, sending young researchers abroad, and involving postdoctoral researchers and graduate students in international collaborative research networks. Through these efforts, we aim to develop world-class, one-of-a-kind research and lead the world toward a safe and sustainable future as a brain circulation center that attracts outstanding researchers from Japan and abroad.

Organization of IROAST



Phase 1（2016-2021）

We have designated the four areas listed below as the priority research areas for Phase 1, a period of six years beginning from 2016. Our goals during this phase are to enhance our international competitiveness in terms of research by developing distinctive, leading-edge research projects, and to foster creative young researchers to serve as the driving force for international research based on our internationally superior research foundation.

Nano Material Science：Pulse power science and advanced metal materials. Graphene oxide non-sheets, hydrogen production catalysts, and innovative materials under extreme conditions, etc.

Green Energy：Development and utilization of renewable energy resources, biomass application, etc.

Environmental Science：Environmental assessment, analysis of climate change, protection of underground water and shallow sea areas, etc.

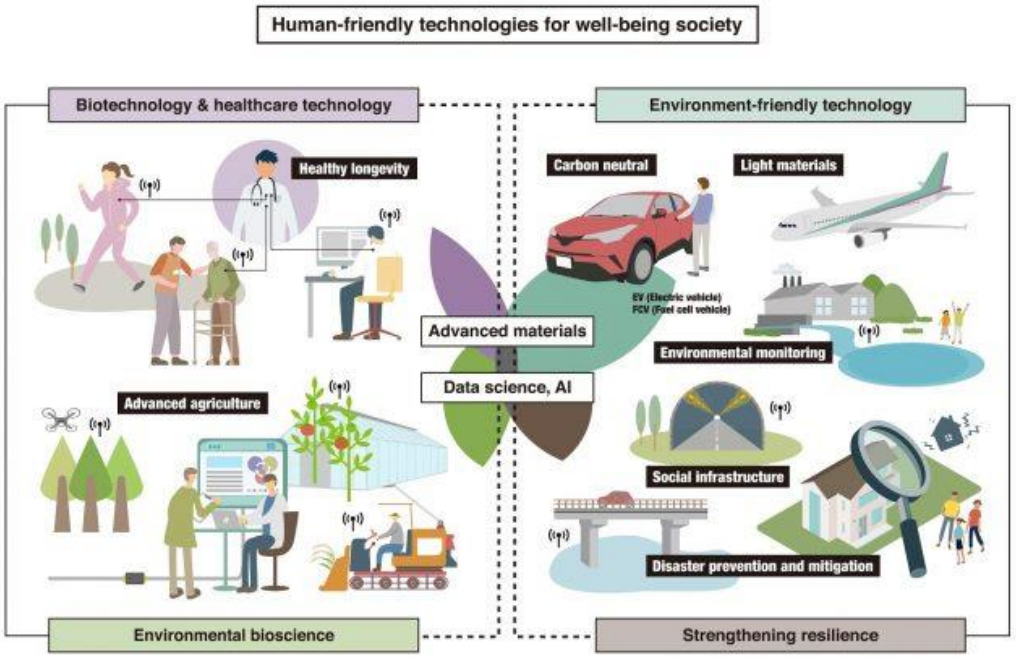
Advanced Green Bio：Interdisciplinary research areas. e.g., drug delivery systems, environment-friendly pesticides, medical diagnosis with X-ray CT and IT, etc.

Environmental assessment, analysis of climate change, protection of underground water and shallow sea areas, etc.

Phase 2（2022-2025）

During Phase 2, beginning from 2022, we plan to further develop and enhance our projects as an international research hub for the natural sciences, and engage in international research activities focused on the science and technology needed to build a society that provides safety, security, and well-being, with the goal of realizing Society 5.0, which will support the next generation of natural sciences.

Science and Technology for Building a Well-being Society


Human-friendly technologies for well-being society
Biotechnology & healthcare technology
Environment-friendly technology
Healthy longevity
Carbon neutral
Light materials
EV (Electric vehicle)
FCV (Fuel cell vehicle)
Advanced materials
Environmental monitoring
Data science, AI
Advanced agriculture
Social infrastructure
Disaster prevention and mitigation
Environmental bioscience
Strengthening resilience

IROAST

Three Missions

The cultivation of talented young researchers to lead the future

Under our tenure-track system, we recognize and foster talented young researchers through an international open call for participants. During the tenure-track period, participants serve as Principal Investigators (PI) by personally leading international joint research projects, establish international joint research networks with overseas researchers and researchers in different fields, and enhance their skills in research and educational activities by participating in joint research projects with postdoctoral researchers and providing research guidance to graduate students. We are also working to foster young researchers with a high level of international competence via our "Program for International Joint Research Faculty Members", through which we send young researchers overseas, as well as by aiding participants in submitting academic papers in English and offering internship programs to provide research guidance to graduate students and young researchers from overseas.

The establishment of strong international joint research networks and promotion of international joint research

In collaboration with research organizations in the natural sciences at the university, we promote international joint research with world-class universities and research institutions. We hire the world's leading researchers as distinguished professors, and grant internationally renowned researchers the title of visiting professor or visiting associate professor, and we contribute to the promotion and development of the university's research activities from an international perspective by engaging in joint research, holding international seminars, and providing intensive lectures for graduate students. In addition, with the aim of establishing academic, cutting-edge international joint research networks, we also promote joint research by aiding IROAST tenure-track faculty members, other Kumamoto University faculty members, distinguished professors and visiting professors in forming research units.

The development of leading, cutting-edge research projects through interdisciplinary integration

Research Clusters led by young researchers are attracting the attention of researchers in other fields due to research into the development of wearable sensors for monitoring cardiac functions as well as the multifaceted application of imagery in collaboration with universities and medical institutions in Singapore. In addition, in collaboration with researchers from Australia and South Korea, we advanced research into functional nanomaterials for efficient treatment of tumors, and published the co-authored findings in top-level international journals. Furthermore, joint research conducted by researchers affiliated with both

organizations is now underway, including holding joint seminars with the International Research Center for Medical Sciences (IRCMS). We have also begun collaborations with the humanities and social sciences.

Comments from International Advisory Board Member

1. Tenure-track based development of young excellent researchers
   - Tenure track positions are an excellent system that offers a career path by which young researchers can accumulate experience through fixed-term employment in research environment.
   - It is important for their future academic career that they also participate from time to time in teaching programs through relevant departments.
   - They should also conduct seminars and short course in English to graduate students (Bachelors, Masters and PhD).
   - A mentor system should be established to provide continuing individual support according to tenure–track faculty members needs.

2. Promotion of International Brain Circulation
   This is an important idea and task of the organization. Especially young researchers at graduate level should have experience at high level that will able them to challenge issues prevailing in the global arena, while forming networks with visiting professors at IROAST and visiting overseas universities and research institutes will potentially create the global researchers of the future that can solve innovative society challenges.

3. Configuration of International Joint Research Networks
   It is important that the role of IROAST to be the top university international window to communicate and to conduct the interdisciplinary research innovative cutting-edge related work. As such a consultative member group with involvement of academic and research staff from university departments should work together to coordinate, establish and recommend the formation of joint research networks.

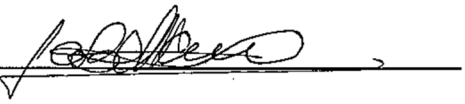
4. Publications
   It is with satisfaction to see that the number of IROAST research publications continue to increase since its inception. I will encourage the researchers to work cooperatively with the different university professors and researchers to produce joint publications in high IF scientific journals. Apart from publications, dissemination of work in high level reputed International conferences is very important for the recognition of the organization and important for creation of new research networks.

5. Acquisition of External Funds
   - It is important to obtain external funds to secure the long-term liability of the organization. As such it is important to get to know the outside community by presenting and disseminating information and looking for potential philanthropic

funders and university donors.
- Reach regional, national and international companies for sponsorship.
- Create a commercialization office as part of IROAST to manage IPs, create business plan, identify potential sources of funding to match existing ideas.

6. Operation and Management of IROAST
   IROAST has an excellent operation and management sources team that impact in the day to day activities. As such it is recommended due to personal experience that:
   - Look on possibility to nominate a day in a year as celebration for IROAST achievements where faculty members can attend, hold a BBQ party and give prizes for best researcher, best publication, etc. Improve public relations within Univ.
   - Do an Open Day, where IROAST opens its door for anybody interested to visit facilities.
   - Hold a day meeting every semester international new arrived student to inform them of IROAST activities.
   - For seminars and workshops, send individual invitations by email to every staff and encourage to attend. Place posters of the seminar announcement around the university departments. It is very important to communicate and open a communication channel with all professors asking research achievements from time to time have a celebration of those milestones.
   - Attend international research exhibitions to promote activities.
   - Produce an IROAST Promotional kit that researchers and Professors attending conferences worldwide can use to contribute and inform of activities done at Kumamoto University.

Name of International Advisory Board Member:
Prof. Jorge Beltramini
Affiliation:
Queensland University of Technology (QUT)

Signature: 

Date: 19-3-2019

Comments from International Advisory Board Member

1. Tenure-track based development of young excellent researchers
   It is very positive that you offer tenure-track based employment. IROAST researchers should do some teaching during their affiliation with IROAST and they should get some teaching training. Maybe this could also help to strengthen their contact with GSST. For the teaching training, you should use the central office for Kumadai professors. In Germany this section is named “Hochschuldidaktik.” They should teach in English or Japanese.

2. Promotion of International Brain Circulation
   If possible, get high-school students and bachelor students involved in research (e.g. via Kumadai central administration activities). Address the ‘emotional’ side of consideration to become a researcher by putting testimonials on top of the IROAST homepage. Invite, if possible, high-school students and bachelor students to specifically designed summer schools. Mix foreign and Japanese people as participants in your summer schools. Already now think about future alumni programs and make use of your alumni as ambassadors. If possible, use the common alumni program of Kumadai.

3. Configuration of International Joint Research Networks
   Do you already ‘use’ your visiting fellows for promotion of IROAST in foreign countries? You should make all people aware that there are lots of possibilities to come to IROAST. This should not be left to the personal insight of each person. It should be part of meetings to talk about the possibilities everyone should help to build up and strengthen the international joint research network. Therefore, it would be good to have a clear vision of the joint research network you want to install.

4. Publications
   It is very good that you provide support/proofreading for English texts. Do you also provide intercultural training for staff and researchers? Presenting and writing in English also needs cultural skills.

5. Acquisition of External Funds
   It is impressive how you extended the JSPS-funding. Keep on looking for suitable funding. This is time-consuming. Therefore, you should make sure that there is enough staff that can identify suitable funding and support academics in applying for it.

Do you know that Erasmus funds are available for the cooperation with Japan? Your partners in Erasmus countries (Germany, France…) could apply for it under Erasmus key action 107. There will be funding for mobility of students, professors and staff. But it will increase the third-party-money of your partners, only.

Make use of the contacts of your professors to companies. Invite the professor plus his/her partner from the company to 'IROAST open day,' present the achievements of IROAST and outline future possibilities of cooperation, or just celebrate together.

6. Operation and Management of IROAST
   How do you celebrate your achievements? Celebrating together is a good opportunity to strengthen a team. Administrative staff and professors should celebrate together.

   You should rethink the structure of your homepage and put more stress on the positive personal experience you offer, the satisfaction of being a researcher and the enrichment of your life by international contacts and, of course, the good job opportunities for your alumni.

   You should be present on facebook, twitter, Instagram. Maybe you can use Kumadai official 'pages' of facebook, twitters and Instagram. Find out if there is someone at IROAST who likes to do facebook, twitter and Instagram. This is really time-consuming, but if you can provide good photos on Instagram, this can have a great impact for the promotion of the knowledge that IROAST exists.

   To get more known by Kumadai students, e.g. distribute post cards on the first day of semesters to freshmen with the announcement of 'IROAST open day' for example in May/ June. Part of this 'open day' should be the possibility to win something or to gain in another way. Produce and distribute magnets (for putting on the refrigerator) with the IROAST butterfly. Your logo is really beautiful!

Name of International Advisory Board Member:
Dr. Anne Gellert
Affiliation:
Heinrich-Heine-University Düsseldorf, Germany

Signature: Anne Gellert

Date: 19.03.2019

Comments from International Advisory Board Member

1. Tenure-track based development of young excellent researchers
   - It is good that tenure-track faculty knows what is expected for tenure and that once tenured, they have regular tenured position either in GSST or MRC.
   - Mid-term evaluation is critical to make mid-term correction and re-enforce weak areas for the final tenure evaluation.
   - Specific recommendation needs to be written for the candidate for successful tenure evaluation.
   - Publication and external funding should be checked annually.

2. Promotion of International Brain Circulation
   - It is good for the tenure-track faculty to visit other places overseas for international collaboration.
   - However, the length of visit overseas seems to be too often or too long for some tenure-track faculty, because it is important for them to establish their research base and train/mentor students on campus.
   - Training of undergraduate students is missing. They will be future brains!

3. Configuration of International Joint Research Networks
   - It is good to involve other faculty (FAST, IPPS, POIE) to expand international joint research networks.
   - Contribution of IROAST faculty is reasonable. This is expected to grow as tenure-track faculty visit overseas and develop collaborative research.
   - Promote alumni network of former students.

4. Publications
   - Targets for self-evaluation seem to be reasonable.
   - It is very encouraging that these targets are exceeded.
   - Papers with visiting professors seem to be low (11) compared to the number of visiting professors (37).
   - Include patents as another category.

5. Acquisition of External Funds
   - It is encouraging to see that Grant-in-Aid for Scientific Research is acquired by most tenure-track faculty.
   - It is very encouraging that total external funds has jumped in FY2018, especially in JSPS Grant-in-Aid has jumped in FY 2018, especially in JSPS Grant-in-Aid.

- Funding is the key component in tenure evaluation in America.

6. Operation and Management of IROAST
   - Management of IROAST seems to be excellent!
   - With only two faculty members (Prof. Hiyama and Prof. Otani), the management of the organization is done efficiently.
   - Regular Steering Committee Meeting, Faculty-Staff Meeting, and Staff Meeting held once a month seem reasonable.
   - Small number of administrative staff is doing a very (good) job for operation of IROAST.
   - Should celebrate!
   - Develop good website!

Additional Comments:

1. Participation of undergraduate students in research projects is encouraged. They will be encouraged to pursue research career and go abroad for graduate studies.
2. Basic, fundamental research should be balanced with applied research.

Name of International Advisory Board Member:
Prof. Kuwan Yun Lee
Affiliation:
Baylor University, USA

Signature: Kwang Y. Lee

Date: March 19, 2019

Feedback Sheets for IROAST International Advisory Board Member

Name: Dmitri A. Molodov

Signature:

Date: 22.11.2022

For the future development of IROAST, we would appreciate your comments on the following items:

1. The cultivation of talented young researchers to lead the future
2. The establishment of strong international joint research networks and promotion of international joint research
3. Operation and management of the IROAST

After the advisory committee meeting with the presentation of Prof. Takashima regarding the IROAST activities and the final discussion, I would summarize my impressions and suggestions in view of the topics asked for as follows.

From my perspective, the effectiveness of training and cultivating talented young researchers at Kumamoto University is closely related among other things to the further internationalization of research and teaching.

Success towards this goal can be achieved by the more active participation the international visiting members of IROAST in the supervision and guidance of graduate and doctoral students, e.g. their participation in evaluation committees to assess the progress of master's and/or doctoral programs, their active participation in graduate student laboratory seminars.

I would also suggest that IROAST visiting members be invited, when possible, to give additional/supplemental lectures in the existing courses of their host professors for both undergraduate and graduate students.

I also believe that more active advertising and promotion of the IROAST tenure-track programs to prospective young scientists from overseas (e.g. also by requesting support from the IROAST visiting members) can make a significant contribution to both the promotion/cultivation of young researchers and the establishment of international research networks.

An important prerequisite for the establishment of the international research networks is the support of the research stays of the young researchers in the scientific centers and partner universities abroad. On the other hand, one of the focuses of IROAST activities should remain on the promotion and organization of international symposia and seminars at Kumamoto University.

In general, from my experience in the last years and my impressions after the advisory board meeting last week, IROAST is a very well-organized institution and the management team has contributed a lot to successfully achieving the goals of the organization.
From my own perspective as a visiting member since 2016, the visiting scientist program is perfectly organized and managed. All my questions and needs during this time regarding the support and organization of my visits to Kumamoto have been effectively answered or/and promptly resolved, which I greatly appreciate.

Feedback Sheets for IROAST International Advisory Board Member

Name: Martin Dienwiebel

Date: Visit of Prof. Takashima at KIT on the 10th of March 2023

For the future development of IROAST, we would appreciate your comments on the following items:

1. The cultivation of talented young researchers to lead the future

    - The hiring of new academic faculty members through a tenure track process was very successful. The fact, that all IROAST international faculty members received tenure in the last period of IROAST shows that the
    - The concept of offering also Post-Doc fellowships to young researchers can be another important cornerstone to foster international excellence. It would be helpful for the IROAST to continue the collaboration with these Post-Docs after the fellowship period by inviting them to Kumamoto.
    - On the level of PhD students, a stronger international collaboration could be achieved. Here I would like to suggest to the organization of joint workshops or Summer Schools on a specific topic between researchers in Kumamoto and visiting professors (2 - 3 members). In-person events are very important to experience the culture needed for international networks.
    - With the help of new digital tools developed in recent years I could be also interesting to organize a multidisciplinary digital event every year, where PhD students can broaden their knowledge.

2. The establishment of strong international joint research networks and promotion of international joint research

    - Joint research between IROAST members and visiting professors are the most important factor for collaborations and high-quality publications. It would be very helpful to obtain information on funding opportunities for specific programs (e.g. JSPS or DFG in Germany) from the IROAST management and maybe help when preparing the necessary documents. Vice versa, Visiting professors could provide specific information on funding in their home countries.

3. Operation and management of the IROAST

- I consider the management of the IROAST as very effective and of very high quality. In addition, I would like to propose a networking event (maybe online/virtual) where all members and the IROAST management can meet and get to know each other,

Feedback Sheets for IROAST International Advisory Board Member

Name: PUSZTAI, László

Signature:

Date: 19 November 2022

For the future development of IROAST, we would appreciate your comments on the following items:

1. The cultivation of talented young researchers to lead the future

In my eyes, this is the primary role the IROAST plays: there is clearly a need at KU, with the growing number of foreign students, for a greater number of staff who feel at home in an international environment. These new faculty members need to be able to use the English language in a natural way (freely and easily), they should have experience with international research milieu – and most preferably, at least some of them should come from a different culture (Europe, the Americas, Australia…). (I personally know two European young researchers who have lived now for years, and would be ready to stay, in Japan – that is, it is possible to find such people.)

I'm not sure how it can be arranged (if at all), but I believe that it would be desirable if IROAST could support talented PhD students, to be affiliated either with IROAST tenured-track associated professors, or young KU investigators that have IROAST connections. This way, IROAST may be able to grab the best PhD students, both in Japan and abroad, thus providing a pool of young scientists from which it may be easier to find future

2. The establishment of strong international joint research networks and promotion of international joint research

In my humble opinion, the task of setting up and operating international research networks is beyond the competence, and far beyond the financial possibilities, of IROAST (unfortunately). I therefore feel that the 'Research Units' that have been set up by IROAST few years ago are somewhat artificial constructions. Still, I would not abolish them, once they are there, as they may serve as useful lists of international researchers that are connected (however loosely) to

KU and IROAST.
On the other hand, keeping up the network of visiting professors, and making sure that they actually do visit IROAST/KU and disseminate the knowledge they have, is a key point in the activities of IROAST. In conjunction with them, IROAST symposia are very good instruments, as it is possible to bring the elite of the international research community to KU. (The symposium on Reverse Monte Carlo modeling, held early in 2020, is still regularly being mentioned with a very positive note, whenever I happen to meet a participant – and I guess that feedback from other IROAST symposia is similar.)

3. Operation and management of the IROAST
What I can see during my time at IROAST is that the machinery is working smoothly (may I thank you also here for your kind assistance!).

Feedback Sheets for IROAST International Advisory Board Member

Name: Professor Paul Bowen

Date: 1 April 2023

I am pleased to provide feedback following the visit of Professor Takashima, Director of IROAST and his colleagues to Birmingham in March 2023. Professor Takashima gave a comprehensive presentation and our discussion then occupied at least two hours. Following our formal meeting we were able to carry on our discussions informally into the evening over dinner, and where we were joined by several senior researchers from my own group. I have been aware of IROAST activities since its origins and I have had the pleasure of visiting Kumamoto University and IROAST on three occasions in Phase One of its activities. I also find it relatively easy to provide comments since my own University has a similar national and international standing to Kumamoto University and several initiatives with Research Centres of somewhat similar ambition and scope. One significant challenge is the re-invigoration of international and national collaborative research activities after the COVID 19 pandemic.

1. The cultivation of talented young researchers to lead the future

The aspirations of IROAST in Phase One were ambitious for your principal tenure-track programme. It is pleasing to see that all five tenure track faculty members from Phase One have now secured tenured positions at Kumamoto University. Moreover, it is clear that you were able to recruit quality candidates to all four priority areas of Phase One. It is essential that this ambition is carried forward to the new priority areas of Phase Two. Here it is clear that an excellent start has been made (notwithstanding the current economic situation in Japan and world-wide) with the appointment of four tenure-track faculty members. Once again as for Phase One, your priority areas for Phase Two: Biotechnology and Healthcare Technology; Environmental Bioscience; Environment-friendly Technology; and, Strengthening Resilience appear to be very well chosen. It is also well aligned with your overarching vision of building a society that provides safety, security and well-being. I am very pleased to endorse these areas- they will be attractive to a wide-range of young scientists. It is also clear that the renumeration package available to recruit talented young researchers appears to be appropriate allowing you to achieve the first part of your strategy.

This principal strategy is then complimented by your second strategy in this area by supporting your “Young Faculty Members for International Joint Research” by seconding

these promising researchers to overseas laboratories (when appropriate) and encouraging their international research and publication activities. Once more this is a strategy that is easy to commend and positive results are presented. It is also pleasing to note that the number of these "Young Faculty Members" is thirteen- a number that is consistent with making an impact at sufficient scale internationally.

The third element of this area relating to short-term research internships both for your own graduate students and young researchers from overseas is another excellent idea- albeit more difficult to achieve for the latter cohort of researchers. Here effort should be made by using the existing international research network to identify such potential international research internees. From discussion, it appears that the financial arrangements for such internships are appropriate and should not inhibit interested candidates from accepting these short-term internships.

Overall the initiatives in Phase Two follow closely from those in Phase One of IROAST, can be fully supported and are likely to be as successful.

2. **The establishment of strong international joint research networks and promotion of international joint research.**

This aspect of the mission is undoubtedly critical for the overall success of Phase Two. The optimisation of this ambition will require care and skill, but it does appear to have the essential elements for success. First, the role here of the "Young Faculty Members" cited above as part of the future leadership programme is critical. For Phase Two these ten "International Joint Research Faculty Members" (Adjunct Faculty Members) are a very powerful resource that was not available for Phase One of IROAST and should lead to further step-changes in research output on the international stage. The focus of these talented researchers, together with the four new tenure track faculty members and three funded international postdoctoral researchers, to address the four priority areas of Phase Two does create an impressive "critical mass" to progress this ambitious programme. Moreover, the integration of these researchers with twelve further world-leading researchers (existing Kumamoto University staff with established international networks already) to form and lead twenty-five IROAST Research Clusters will be an exciting feature of Phase Two to deliver innovative research that achieves the vision of the "Creation of new science and technology for building a society that provides safety, security and well-being".

This "internal resource" is then further complimented by "external resource" of four distinguished professors and some forty-three visiting professors and associate professors.

The role of the distinguished professors is clearly defined and it is important, as is intended that they: stimulate international collaborative research; lead symposia, seminars and workshops at IROAST; and, interact strongly with graduate and PhD students at Kumamoto University. Their interaction and that of the forty-three visiting professors within the twenty-five IROAST Research Clusters will be one test of the quality of the international collaborative research that IROAST will deliver at the end of Phase Two. This activity has been carefully constructed and it will need attention to detail so that it can be genuinely demonstrated to add value to the impressive degree of internal activity within IROAST.

The ambition to pioneer new research fields through cross-disciplinary integration is perhaps an ambition of every global university and it should remain an aspiration for IROAST activities. It must be hoped that embryonic opportunities for such research fields arise naturally in the progression of Phase Two and that leaders within IROAST remain alert to such possibilities.

Overall the strategy to be followed can be commended highly.

3. Operation and management of IROAST

It is obvious that IROAST has had a very successful Phase One- during which it has been very well led and administered. Reporting of outputs and achievements is to a high standard and it allows easy comparisons to be made both within Kumamoto University and externally. The metrics reported underline the quality of the staff associated with IROAST in terms of journal publications (where they rank highly within the top ten of research professors in Kumamoto University) and where they have regularly exceeded annual targets set internally over Phase One. IROAST is undoubtedly strengthening the global position of Kumamoto University and it is likely that the impact of the younger academics will improve strongly over Phase Two. Here the leadership of the Director of IROAST will be critical and I have every confidence that Professor Takashima will excel in this role. He has a very high level of scientific integrity and will be an excellent mentor for more junior staff- he has great patience and the ability to work very hard indeed. He commands a high level of respect from his international colleagues- particularly for the detailed quality of his personal research over many years. As a materials scientist he is also ideally equipped to judge a wide range of subject-specific and interdisciplinary research.

He also has an experienced administration team and the organisational structure of IROAST bears very good comparison to others that I have encountered. Under his

leadership I fully expect IROAST to achieve even more strongly in Phase Two and I am delighted to play my role in supporting its advancement into the future.

	Name	Title	Term
	TAKASHIMA Kazuki	Director	2021.4.1-2025.3.31
	TODA Kei	Vice Director	2021.4.1-2025.3.31
	HIYAMA Takashi	Former Director	2016.4.1-2021.3.31
	OTANI Jun	Former Vice Director	2016.4.1-2020.3.31
	PUSZTAI LÁSZLÓ György	Distinguished Professor	2017.4.1-2025.3.31
	ZHENG YUFENG	Distinguished Professor	2017.5.1-2025.3.31
	Dmitri Aleks Molodov	Distinguished Professor	2021.12.1-2025.3.31
	U Rajendra Acharya	Distinguished Professor	2022.4.1-2025.3.31
	BELTRAMINI JORGE NORBERTO	Former Distinguished Professor	2019.10.1-2020.3.31
	Kontis Konstantinos	Former Distinguished Professor	2018.11.1-2022.3.31
	Zhongyue ZHANG	Tenure-track Associate Professor	2023.1.1-2025.3.31
	Gaochuang CAI	Tenure-track Associate Professor	2021.10.1-2025.3.31
	MATSUO Hiroki	Tenure-track Associate Professor	2021.6.1-2025.3.31
	FURUTANI Masahiko	Former Tenure-track Associate Professor	2022.8.1-2024.3.31
	AIDA Mitsuhiro	Former Tenure-track Professor	2017.7.1-2022.6.30
	Ruda LEE	Former Tenure-track Associate Professor	2017.1.1-2021.12.31
	SAINOKI Atsushi	Former Tenure-track Associate Professor	2017.1.1-2021.3.31
	ISHIDA Takashi	Former Tenure-track Associate Professor	2016.6.1-2021.5.31
	TOSHA Toshiyuki	Professor	2016.4.1-2019.3.31
	MALLA PRAFULLA BAHADUR	Postdoctoral Researcher	2022.9.1-2024.8.31
	RAHMAN MOHAMMAD ATIQUR	Postdoctoral Researcher	2023.10.1-2025.3.31
	KUNJAPPY NOBLESON	Postdoctoral Researcher	2023.11.15-2025.3.31
	AHMAD MUHAMMAD SOHAIL	Postdoctoral Researcher	2025.1.1-2025.3.31
	Aditya Ardana	Former Postdoctoral Researcher	2017.6.1-2018.3.31
	Adam Karl Schwartzkopff	Former Postdoctoral Researcher	2017.7.1-2021.3.31
	NAKAMASU Akiko	Former Postdoctoral Researcher	2017.12.1-2022.3.31
	Kim Minwoo	Former Postdoctoral Researcher	2018.6.1-2020.2.29
	Sri Imriani Pulungan	Former Postdoctoral Researcher	2018.11.1-2019.3.31
	YAMADA Mizuki	Former Postdoctoral Researcher	2019.10.1-2022.6.30
	Sajid Fazal	Former Postdoctoral Researcher	2020.12.1-2021.3.31
	AGUTAYA JONAS KARL CHRISTOPHER NUEVAS	Former Postdoctoral Researcher	2022.9.1-2023.8.31
	REETU RANI	Former Postdoctoral Researcher	2022.9.1-2023.8.31
	ONGA Kazuko	Former Technical Assistant	2017.11.1-2022.10.31
	UEDA Chikako	Former URA	2019.5-2021.3
	KUROKI Yutaro	Former URA	2016.4-2019.3
	CHEN Chen	Former URA	2016.4-2019.3

	Name	Title	Term
	KINOSHITA Seiichi	Division Manager	2023.4.1-2025.3
	TSUTSUMI Takako	Division Deputy Manager	2023.11.1-2025.3
	YOSHIOKA Yuki	Chief	2024.4-2025.3
	UENO Takayuki	Staff	2020.4-2025.3
	MAEDA Satomi	Senior Administrator	2022.4-2025.3
	MOTOORI Junko	International Coordinator	2020.8-2025.3
	HIRAKAWA Hiromi	Clerical Assistant	2024.4-2025.3
	YAMAGUTI Kyoko	Temporary worker	2024.9-2025.3
	MIYAYAMA Miyuki	Former Chief	2021.4-2024.3
	MAEDA Tomomi	Former Senior Administrator	2020.4-2022.3
	SATO Tae	Former Research Support Associate	2018.4-2022.3
	TAJIRI Akiko	Former Clerical Assistant	2019.10-2024.9
	KUMAGAI Junichi	Former Chief	2017.4-2021.3
	MORISHITA Naomi	Former Senior Administrator	2017.4-2021.3
	MURAO Shoko	Former International Coordinator	2016.4-2018.3
	DYROFF Mika	Former Clerical Assistant	2016.4-2020.8
	FUKUDA Kenichi	Former Staff	2016.4-2020.3
	KITAHARA Kuniaki	Former Chief	2016.4-2017.3
	ODAWARA Junko	Former Clerical Assistant	2018.4-2019.9
	ISHII Shiho	Former Clerical Assistant	2018.4-2020.3
	SEKIMOTO Hiroe	Former Clerical Assistant	2016.4-2019.3

	Title	Name	Affiliation	Term
1	Visiting Professor	László Pusztai	Wigner Research Centre for Physics	2016.10.1-2018.3.31
2	Visiting Professor	Jorge Beltramini	The University of Queensland	2016.10.1-2020.3.31
3	Visiting Professor	Ramesh Shanmughom Pillai	University of Geneva	2016.10.1-2022.3.31
4	Visiting Professor	Reiko ODA	Centre national de la recherche scientifique (CNRS)	2016.10.1-2025.3.31
5	Visiting Professor	Josep-Lluís BARONA-VILAR	Universidad de Valencia	2016.10.1-2025.3.31
6	Visiting Professor	Zhenghe Xu	University of Alberta	2016.10.1-2025.3.31
7	Visiting Professor	Etsuko FUJITA	Brookhaven National Laboratory	2016.10.1-2025.3.31
8	Visiting Professor	Dmitri Aleks Molodov	RWTH Aachen University	2016.10.1-2022.3.31
9	Visiting Professor	Pavel Lejček	Academy of Sciences of the Czech Republic	2016.10.1-2025.3.31
10	Visiting Professor	Zoran REN	University of Maribor	2016.10.1-2022.3.31
11	Visiting Professor	Firus Zare	The University of Queensland	2016.10.1-2022.3.31
12	Visiting Professor	Viren Ivor Menezes	Indian Institute of Technology Bombay	2016.10.1-2022.3.31
13	Visiting Professor	Konstantinos Kontis	University of Grasgow	2016.10.1-2019.3.31
14	Visiting Professor	Supri Soengkono	GNS Science	2016.10.1-2019.3.31
15	Visiting Professor	Olivier HAMANT	Institut national de la recherche agronomique (INRA)	2017.1.1-2022.3.31
16	Visiting Professor	Patrice Jean Delmas	The University of Auckland	2017.2.1-2025.3.31
17	Visiting Professor	Hamid Ghandehari	The University of Utah	2017.3.1-2022.3.31
18	Visiting Professor	Kwon, Ick Chan	Korea Institute of Science and Technology	2017.3.1-2025.3.31
19	Visiting Professor	Paul Bowen	The University of Birmingham	2017.4.1-2025.3.31
20	Visiting Professor	Martin Dienwiebel	Karlsruhe Institute of Technology (KIT)	2017.8.1-2025.3.31
21	Visiting Professor	Thomas Waitz	University of Vienna	2017.8.1-2025.3.31
22	Visiting Professor	Yang Kim	Kosin University	2017.8.1-2022.3.31
23	Visiting Professor	Amir A.Farajian	Wright State University	2017.11.1-2022.3.31
24	Visiting Professor	Maria Jose COCERO	Universidad de Valladolid	2017.11.1-2025.3.31
25	Visiting Professor	Tomonari Furukawa	Virginia Polytechnic Institute and State University	2017.11.1-2025.3.31
26	Visiting Professor	Gioacchino VIGGIANI	Université Grenoble Alpes	2017.12.1-2025.3.31
27	Visiting Professor	Rahul Raveendran Nair	The University of Manchester	2017.12.1-2022.3.31
28	Visiting Professor	Alexei Kuzmin	University of Latvia	2018.4.1-2022.3.31
29	Visiting Professor	CAROLINA ESCOBAR	Universidad de Castilla La Mancha	2018.4.1-2025.3.31
30	Visiting Professor	Hardtke Christian Siegfried	University of Lausanne	2018.4.1-2022.3.31
31	Visiting Professor	Derek Elsworth	Pennsylvania State University	2018.4.1-2025.3.31
32	Visiting Professor	Tsutomu Kiuchi	Simizu Corporation	2018.4.1-2019.3.31
33	Visiting Professor	Christian RENTENBERGER	University of Vienna	2018.4.1-2025.3.31
34	Visiting Professor	Jens Hartmann	Universität Hamburg	2018.4.1-2025.3.31
35	Visiting Professor	Marc de Boissieu	Grenoble Alpes University	2018.11.1-2022.3.31
36	Visiting Professor	Matthieu Micoulaut	Paris Sorbonne Universités	2018.11.1-2022.3.31
37	Visiting Professor	Martino Di Serio	Università degli Studi di Napoli Federico II	2018.11.1-2025.3.31
38	Visiting Professor	José E. Andrade	California Institute of Technology	2019.1.1-2023.3.31
39	Visiting Professor	U. Rajendra Acharya	Ngee Ann Polytechnic	2019.5.1-2022.3.31
40	Visiting Professor	Andrew J. Whittle	Massachusetts Institute of Technology	2019.5.1-2023.3.31
41	Visiting Professor	Shirley Shen	Commonwealth Scientific and Industrial Research Organisation (CSIRO)	2019.5.1-2023.3.31
42	Visiting Professor	Pierre Breul	Polytech Clermont-Fd - Université Clermont Auvergne	2019.7.1-2025.3.31
43	Visiting Associate Pro	Daniel P. Zitterbart	Woods Hole Oceanographic Institution	2019.11.1-2025.3.31
44	Visiting Professor	Olivier Boutin	Aix Marseille University	2020.1.1-2025.3.31
45	Visiting Professor	SHIE-MING PENG	National Taiwan University	2020.1.1-2025.3.31
46	Visiting Associate Pro	Mani Tomoyasu	University of Connecticut	2020.1.1-2025.3.31
47	Visiting Associate Pro	Pouyan Boukany	Delft University of Technology	2020.4.1-2022.3.31
48	Visiting Professor	Stelios Rigopoulos	Imperial College London	2020.4.1-2022.3.31
49	Visiting Professor	Youn-Woo Lee	Seoul National University	2020.4.1-2025.3.31
50	Visiting Professor	Dragos Horvath	University of Strasbourg	2021.4.1-2022.3.31

	Title	Name	Affiliation	Term
51	Visiting Professor	Atsushi Urakawa	Delft University of Technology	2021.4.1-2022.3.31
52	Visiting Professor	Yuichiro Himeda	National Institute of Advanced Industrial Science and Technology	2021.4.1-2022.3.31
53	Visiting Associate Pro	Hiroko Sato	University of Zürich	2021.4.1-2022.3.31
54	Visiting Professor	KASAHARA Ryushiro	Fujian Agriculture and Forestry University	2021.7.1-2023.3.31
55	Visiting Professor	Bo LIU	University of California Davis	2021.11.1-2025.3.31
56	Visiting Professor	Jorge Beltramini	Queensland University of Technology	2022.4.1-2025.3.31
57	Visiting Professor	Parasuraman Selvam	Indian Institute of Technology-Madras	2022.4.1-2025.3.31
58	Visiting Professor	Konstantinos Daniel Tsavdaridis	City, University of London	2022.4.1-2025.3.31
59	Visiting Professor	Suttichai Assabumrungrat	Chulalongkorn University	2022.4.1-2025.3.31
60	Visiting Professor	Bruno Favery	Université Côte d'Azur-CNRS,Institut Sophia Agrobiotech (ISA)	2022.4.1-2025.3.31
61	Visiting Associate Pro	Agus Sasmito	Mcgill University	2022.4.1-2025.3.31
62	Visiting Professor	Amir SI LARBI	University of Lyon	2022.5.1-2025.3.31
63	Visiting Professor	Mohammad FARD	RMIT University	2022.10.1-2023.3.31
64	Visiting Professor	Nicolae Barsan	University of Tubingen	2023.4.1-2025.3.31
65	Visiting Associate Pro	Dario Zappa	The University of Brescia	2023.4.1-2025.3.31
66	Visiting Professor	Raffi Aroian	University of Massachusetts Chan Medical School	2023.4.1-2024.3.31
67	Visiting Professor	Liu Tao	Dalian University of Technology	2023.8.1-2024.3.31
68	Visiting Associate Pro	Tran Tung Thanh	The University of Adelaide	2023.12.1-2025.3.31
69	Visiting Professor	Wen-Shing Lee	National Taipei University of Technology	2023.12.1-2025.3.31
70	Visiting Professor	Mohammad Abul Hasnat	Shahjalal University of Science and Technology (SUST)	2024.4.1-2025.3.31
71	Visiting Professor	Yang Ju	Zhejiang University	2024.4.1-2025.3.31
72	Visiting Professor	Hoon Kim	Sungkyunkwan University	2024.4.1-2025.3.31
73	Visiting Professor	Dongfang Liang	University of Cambridge	2024.4.1-2025.3.31
74	Visiting Professor	Yan XIAO	Zhejiang University	2024.9.1-2025.3.31
75	Visiting Professor	Hui LU	Tsinghua University	2024.11.1-2025.3.31
76	Visiting Professor	Yong Il PARK	Chonnam National University	2024.12.1-2025.3.31

FY2016	Director of IROAST	HIYAMA Takahi
	Vice Director of IROAST	OTANI Jun
	Dean of FAST*	USAGAWA Tsuyoshi
	Advisor to the Dean of FAST	ICHIKAWA Fusao
	Director of IPPS*	AKIYAMA Hidenori
	Director of CMES*	HENMI Yasuhisa
	Director of MRC*	KAWAMURA Yoshihito

*FAST: Faculty of Advanced Science and Technology
IPPS: Institute of Pulsed Power Scinece
CMES: Center for Marine Environment Studies
MRC: Magnesium Research Center

FY2017	Director of IROAST	HIYAMA Takahi
	Vice Director of IROAST	OTANI Jun
	Dean of FAST	USAGAWA Tsuyoshi
	Advisor to the Dean of FAST	ICHIKAWA Fusao
	Director of IPPS	KATSUKI Sunao
	Director of CWMD*	KAKIMOTO Ryuji
	Director of MRC	KAWAMURA Yoshihito

*CWMD: Center for Water Cycle, Marine Environment and Disaster Management

FY2018	Director of IROAST	HIYAMA Takahi
	Vice Director of IROAST	OTANI Jun
	Dean of FAST	USAGAWA Tsuyoshi
	Advisor to the Dean of FAST	ICHIKAWA Fusao
	Director of IPPS	KATSUKI Sunao
	Director of CWMD	KAKIMOTO Ryuji
	Director of MRC	KAWAMURA Yoshihito

FY2019	Director of IROAST	HIYAMA Takahi
	Vice Director of IROAST	OTANI Jun
	Dean of FAST	USAGAWA Tsuyoshi
	Advisor to the Dean of FAST	ICHIKAWA Fusao
	Director of IPPS	MATSUMOTO Yasumichi
	Director of CWMD	KAKIMOTO Ryuji
	Director of MRC	KAWAMURA Yoshihito

FY2020	Director of IROAST	HIYAMA Takahi
	Vice Director of IROAST	TAKASHIMA Kazuki
	Dean of FAST	TANI Tokio
	Advisor to the Dean of FAST	TSUREKAWA Sadahiro
	Director of IINa*	MATSUMOTO Yasumichi
	Director of CWMD	KAKIMOTO Ryuji
	Director of MRC	KAWAMURA Yoshihito

*IINa: Institute of Industrial Nanomaterials

FY2021	Director of IROAST	TAKASHIMA Kazuki
	Vice Director of IROAST	TODA Kei
	Dean of FAST	TANI Tokio
	Advisor to the Dean of FAST	TSUREKAWA Sadahiro
	Director of IINa	IDA Shintaro
	Director of CWMD	KAKIMOTO Ryuji
	Director of MRC	KAWAMURA Yoshihito

FY2022・	Director of IROAST	TAKASHIMA Kazuki
FY2023	Vice Director of IROAST	TODA Kei
	Dean of FAST	TSUREKAWA Sadahiro
	Advisor to the Dean of FAST	FUJIMOTO Hitoshi
	Director of IINa	IDA Shintaro
	Director of CWMD	KAKIMOTO Ryuji
	Director of MRC	KAWAMURA Yoshihito

FY2024	Director of IROAST	TAKASHIMA Kazuki
	Vice Director of IROAST	TODA Kei
	Dean of FAST	ISOBE Hiroshi
	Advisor to the Dean of FAST	IHARA Toshihiro
	Director of IINa	IDA Shintaro
	Director of CWMD	KAKIMOTO Ryuji
	Director of MRC	KAWAMURA Yoshihito

		Title	Date	Speaker	Affiliation	Theme
2016	1	The 1st IROAST Seminar ~The 3rd International Symposium on Kumamoto Synchrotron Radiation (ISKSR3)~	2016/11/30	László Pusztai, Hungarian Academy of Sciences, Hungary Shinji Kohara, NIMS / Spring-8, Japan Jens Rüdiger Stellhorn, Kumamoto University, Japan Koji Hukushima, The University of Tokyo, Japan Ichiro Akai, Kumamoto University, Japan Kazunori Iwamitsu, Kumamoto University, Japan Tomohiro Matsushita, JASRI / Spring-8, Japan Tomotaka Nakatani, RIKEN / Spring-8, Japan Yoichi Nakajima, Kumamoto University, Japan	-	Combinations of Molecular Dynamics simulations and Reverse Monte Carlo modeling for molecular liquids.
	2	The 2nd IROAST Seminar ~The 7th IWX: Challenge of Medicine-Engineering Collaboration~	2016/12/1 -2	Pilhan Kim, KAIST, Korea, Real-time intravital microscopy for in vivo cellular visualization: seeing is believing James Pearson, National Cerebral and Cardiovascular, Japan, Insights into vascular dysfunction mechanisms in small animals Hitoshi Takizawa, Kumamoto University, Japan, Bone forming stem cell Patrice Delmas, The university of Auckland, New Zealand, Image proccessing in the context of CT-scan data Yosuke Higo, Kyoto University, Japan, Imaging and quantifyinng microstructures of pertially sturated sands Yoshitaka Nakanishi, Kumamoto University, Japan, Application of microfocus X-ray CT and 3-D visualization in vertebrate paleontology Tae Sup Yun, Yonsei University, Korea, Quantification of heterogeneity and fluid flow in geomaterials Shi Yi, University of Hong Kong, Hong , Hong Kong, Image proccessing and microscipic measurements of calcareous particles under compression Atushi Ishii, Hamamatsu Photonics K.K., Japan, Microfocus X-ray source: the latest technology and future Yuichiro Arima, Kumamoto Univesity, Japan, Quantitative assessment of the arterial remodeling using micro X-ray CT	-	-
	3	The 3rd IROAST Seminar	2016/12/5	Satoshi Fujita	University of Lausanne, Switzerland	局在化した受容体シグナル経路を介したカスバリー線形成機構
	4	The 4th IROAST Seminar	2016/12/12	Masayoshi Nakamura	Carnegie Institution for Science, USA	植物表層微少管のマイナス端制御機構
	5	The 5th IROAST Seminar	2016/12/20	Ramesh Pillai	IROAST/University of Geneva, Switzerland	Noncoding genome and germline small RNAs in suppression of transposable elements（プロゼミセミナー）
	6	The 6th IROAST Seminar	2017/2/1	Tony Rahadinata	Center for Mineral Coal and Geothermal Resource, Indonesia	Indonesia's Geothermal Energy: Barrier and proposed solutions for geothermal development
	7	The 7th IROAST Seminar	2017/3/15	Yuichiro Arima, Kumamoto University, Japan, Recent Advance in		
	8	The 8th IROAST Seminar	2017/3/21	Jorge Beltramini	IROAST/The University of Queensland, Australia	Synthesis and characterization of ordered mesoporous materials for clean energy technologies
2017	9	The 9th IROAST Seminar ~The 4th International Symposium on Kumamoto Synchrotron Radiation (ISKSR4): Cooperation of Experiments and Computer Sciences ~	2017/5/15	László Pusztai	IROAST/Hungarian Academy of Sciences, Hungary	Determining the structure of hydrogenous materials by polarized neutron diffraction
	10	The 10th IROAST Seminar	2017/7/7	Celine Duwig, IRD, Grenoble University Alpes, France, Analysis of	-	-
	11	The 11th IROAST Seminar	2017/8/7	Shinichiro Komaki	Nara Institute of Science and technology, Japan	The spindle assembly checkpoint in plants
	12	The 12th IROAST Seminar	2017/10/12	Yufeng Zheng	IROAST/Peking University, China	Magnesium Alloys Designed as Degradable Metallic Biomaterials
	13	The 13th IROAST Seminar	2017/10/17	Pavel Lejček	Academy of Sciences of the Czech Republic, Czech Republic	Solute segregation at grain boundaries and their embrittlement; Czech footprint
	14	The 14th IROAST Seminar	2017/10/18	Aqus Pulunq Sasmito	McGill University, Canada	Use of renewable energy sources for mine energy system
	15	The 15th IROAST Seminar ~Annual	2017/10/24	Reiko Oda, CBMN UMR5248, CNRS, Université de Bordeaux,		
	16	The 16th IROAST Seminar ~5th International Symposium on Kumamoto Synchrotron Radiation~	2017/11/1-2	Tomohiro Matsushita, JASRI / Spring-8, Japan Jens Rüdiger Stellhorn, Kumamoto University, Japan Satoshi Ohmura, Hiroshima Institute of Technology, Japan László Pusztai, Hungarian Academy of Sciences, Hungary Edgar Galicia-Andrés, National Autonomous University of Mexico, Mexico Markus Hermann, Georg-August-Universität Göttingen, Germany Koji Hukushima, The University of Tokyo, Japan Kazunori Iwamitsu, Kumamoto University, Japan Kenji Nagata, The National Institute of Advanced Industrial Science and Technology (AIST), Japan Aravind Krishnamoorthy, University of Southern California, USA Masaaki Misawa, Kumamoto University, Japan Akira Yoshiasa, Kumamoto University, Japan		Consistency checks between results of computer simulations and diffraction experiments.
	17	The 17th IROAST Seminar	2017/11/16	Josep Lluís Barona-Vilar	University of Valencia, Spain	History of Science & Medicine in Valencia
	18	The 18th IROAST Seminar	2017/11/22	Josep Lluís Barona-Vilar	University of Valencia, Spain	History of Science & Medicine in Valencia
	19	The 19th IROAST Seminar	2017/11/28	Tomonari Furukawa	IROAST/Virginia Polythchnic Institute and State University, USA	Road Condition Measurement and Suspention/Traction Control for Active Safety and Autonomous Driving
	20	The 20th IROAST Seminar	2017/12/5	Etsuko Fujita	IROAST/Brookhaven national Laboratory, USA	Hydrogen Production and Storage with Carbon Dioxide Hydrogenation
	21	The 21st IROAST Seminar	2017/12/6	Rahul R. Nair	IROAST/University of Manchester, England	Tunable graphene oxide membranes
	22	The 22nd IROAST Seminar	2017/12/21	Jaehong Key	Yonsei University, Korea	Development of polymeric nano/micro-particles for cancer theranostics
	23	The 23th IROAST Seminar	2017/12/20	Amir Farajian	IROAST/Wright State University, USA	Modelling electronic and thermal currents in nanosystems for sensor and energy applications
	24	The 24th IROAST Seminar ~Advanced Science and Technology in Hydrology~	2018/1/9-10	Van-Thanh-Van NGUYEN Ali Ercan from the University of California, Davis, USA Noriaki Ohara from the University of Wyoming, USA	McGill University, Canada	"Linking Climate Change of Hydrological Impact and Adaptation Studies" "Scaling and Self-Similarity in 2D and 3D Incompressible Navier-Stokes Equations" "Estimation of Riparian Groundwater"

		Title	Date	Speaker	Affiliation	Theme
	25	The 25th IROAST Seminar ~Joint Seminar between IROAST and IRCMS: Bio Engineering-Cutting edge on the collaborative activity~	2018/1/22	Koichi Nishiyama, IRCMS, Interdisciplinary approaches to understanding of the underlying mechanisms of angiogenesis Yorifumi Satou, IRCMS, Application of next generation DNA sequencing technology for viral research Zheng Yufeng, IROAST, Metallic Biomaterials used in Medicine Aeju Lee, IROAST, Multifunctional nanoparticles for imaging and therapy Shinya Hayami, FAST, Multi-function materials Toshifumi Mukunoki, FAST, Application of micro-focused X-ray CT scanner for geoenvironmental engineering Toshitaka Yamanaka, FAST, Wearable and implantable sensor electronics for health and clinical care Gou Koutaki, FAST, Image processing through pharmacy-engineering collaboration Yuta, Nakashima, FAST, Microdevices and micro-nano technology for bio-medical application Hayato Ishikawa, FAST, Isolation, total synthesis and medicinal chemistry of biologically active natural product	-	-
	26	The 26th IROAST Seminar	2018/2/2	Derek Elsworth	The Pennsylvania State University, USA	Seismicity-permeability coupling in gas shales, CO2 storage and deep geothermal energy
	27	The 27th IROAST Seminar	2018/2/15	Viren Ivor Menezes	Indian Institute of Technology Bombay, India	Effect of surface roughness on the hypersonic nose-tip transition control
	28	The 28th IROAST Seminar	2018/3/30	Jorge Norberto Beltramini	The University of Queensland, Australia	Efficient Valorization of Biomass to Chemicals and Biofuels through Bifunctional Solid Catalytic Design
2018	29	The 29th IROAST Seminar ~Special Lecture at X-Earth Center~	2018/6/13	Gioacchino Viggiani	Université Grenoble Alpes, 3SR of CNRS, France	Full-field methods and multi-scale approaches in experimental geomechanics
	30	The 30th IROAST Seminar	2018/6/272018/	Patrice Delmas	The University of Auckland, New Zealand	Basics of Image Processing and Analysis (9 series)
	31	The 31st IROAST Seminar ~International Workshop for Advancing Imaging, Image Processing and Data Visualization in the BRAIN/MINDS and MBIE Catalyst Projects~	2018/7/10	Alexander Woodward, RIKEN, Japan, Trevor Gee, University of Auckland, New Zealand, 3D object creation combining turn-table and stereo-SLAM Rui Gong, RIKEN, Japan, The Brain/MINDs project: tracer injection site segmentation and flat map construction Patrice Delmas, University of Auckland, New Zealand, In-situ multi-scale mapping for marine ecology and estuary health monitoring Toshifumi Mukunoki, Kumamoto University, Application of X-ray CT for Geoenvironmental engineering	-	-
	32	The 32nd IROAST Seminar	2018/8/7	Reiko Oda	CBMN UMR5248, CNRS, Université de Bordeaux, France	Kinetic Evolution of Chiral Molecular Assemblies: Molecular Chirality to Supramolecular Chirality
	33	The 33rd IROAST Seminar ~The 2nd IROAST & IRCMS Joint Seminar~	2018/8/21	Hitoshi Takizawa, IRCMS, Signle cell analysis for hematopoietic stem biology Hidenobu Mizuno, IRCMS, In vivo two-photon imaging to elucidate mechanisms for brain development Mitsuhiro Aida, IROAST, Shoot stem cell formation in plant development Takumi Higaki, IROAST, Quantification and classification of bioimages	-	-
	34	The 34th IROAST Seminar ~The Kumamoto International Symposium on Recent Advancements of Mineralogy and Petrology XI~	2018/10/1	Krzysztof Wojciechowski, AGH University of Science and Technology, Poland, Microstructural and thermoelectric properties of CoSb3 skutterudite prepared by shock-compression method Tsutomu Mashimo, Kumamoto University, New materials processing and design under strong gravitational field	-	-
	35	The 35th IROAST Seminar	2018/10/4	Jens Hartmann	Universität Humburg, Germany	The role of weathering in the carbon cycle at different time scales
	36	The 36th IROAST Seminar	2018/10/11, 201	Maria Jose Cocero	The University of Valladolid, Spain	Part I: "Understanding the Fundamentals of Biomass Fractionation in Sub/Supercritical Water" Part II: "Supercritical Water Oxidation for Clean Energy Production"
	37	The 37th IROAST Seminar ~International Symposium on Advanced Materials Having Multi-Degrees-of-Freedom~	2018/11/1, 2018	Marc de Boissieu, SIMaP, Univ. Grenoble Alpes, France Matthieu Micoulaut, Sorbonne Universite, France Tomas Wagner, University of Pardubice, Czech Republic□Laszlo Pusztai, Hungarian Academy of Sciences, Hungary / IROAST, Kumamoto University, Japan Kouichi Hayashi, Nagoya Institute of Technology, Japan Yasuhiko Igarashi, JST PRESTO, The University of Tokyo, NIMS, Japan□Yoshifumi Sakaguchi, Comprehensive Research Organization for Science and Society: CROSS, Japan□Hiroyuki Kumazoe, GSST, Kumamoto University, Japan□Toshihiro Okajima, SAGA-LS, Japan□Koichi Shimakawa, Gifu University, Japan□Jens R. Stellhorn, Department of Physics, Kumamoto University, Japan	-	-
	38	The 38th IROAST Seminar ~The Kumamoto International Symposium on Recent Advancements of Mineralogy and Petrology XI and The Eighth Meeting of Research Consortium on High-pressure Research~	2018/11/2	Kenneth Koga, Université Blaise Pascal5, Clermont-Ferrand, France, Experimental study of Li isotope fractionation during volcanic degassing Tadao Nishiyama, Kumamoto University, Ultrahigh pressure Nishisonogi and Higo Metamorphic Rocks, Kyushu, Japan, and its implication Nicolas Cluzel, Université Blaise Pascal5, Clermont-Ferrand, France, Introducing the melt inclusion laboratory of Clermont. An application to melt inclusion from Montcineyre, Massif Central, France Estelle Rose-Koga, Laboratoire Magmas et Volcans, CNRS, France, What can we learn from melt inclusion? The example of Iwate volcano, Japan Toshiaki Hasenaka, Kumamoto University, Tectonics and volcanism in Kyushu island: Why we had caldera-formiing gigantic eruptions in Kyushu?	-	-
	39	The 39th IROAST Seminar	2018/11/7	Pavel Lejček	Academy of Sciences of the Czech Republic, Czech Republic	Fundamentals of Grain Boundary Segregation and Related Phenomena
	40	The 40th IROAST Seminar	2018/11/8	Tomonari Furukawa	Department of Mechanical Engineering at Virginia Polytechnic Institute and State University, US	Autonomous Robots–Theory and Success for Real Field Autonomy
	41	The 41st IROAST Seminar	2018/11/28	Josep Lluís Barona-Vilar	University of Valencia, Spain	Historical Origins of Public Health
	42	The 42nd IROAST Seminar ~The latest technology advancement for sustainable energy development~	2018/12/4	Agus Sasmito / Ali G. Madiseh	McGill University, Canada/ The University of British Columbia, Canada	
	43	The 43rd IROAST Seminar	2018/12/5	Debasish Chakraborty	Technical University of Denmark, RenCat, Denmark	Exploring ammonia as carbon free fuel: A bottom up approach

		Title	Date	Speaker	Affiliation	Theme
	44	The 44th IROAST Seminar	2018/12/6	Alexei Vinogradov	Norwegian University of Science and Technology, Norway	Enhanced Properties of Biodegradable Magnesium Alloys After Severe Plastic Deformation
	45	The 45th IROAST Seminar	2018/12/11	Konstantinos Kontis	The University of Glasgow, UK	IPPS Lecture & Seminar No. 42
	46	The 46th IROAST Seminar	2018/12/13	Viren Menezes	Indian Institute of Technology Bombay, India	IPPS Lecture & Seminar No. 43
	47	The 47th IROAST Seminar	2018/12/14	Ramesh Shanmughom Pillai	University of Geneva, Switzerland	Chemical modification of RNA in control of mammalian gene expression
	48	The 48th IROAST Seminar	2018/12/18	Massimo Nespolo	Université de Lorraine, CNRS, CRM2	Chirality in crystallography
	49	The 49th IROAST Seminar ~Materials processing with supercritical fluids~	2019/1/24	Youn-Woo Lee / Olivier Boutin	Seoul National University, Republic of Korea / Aix-Marseille University, France	
	50	The 50th IROAST Seminar	2019/1/29	Andrew J. Whittle	Massachusetts Institute of Technology, US	Building a Better Mousetrap–The Continuing Quest for More Reliable Models of Clay Behavior
	51	The 51st IROAST Seminar	2019/2/1	Martino Di Serio	The University of Naples Federico II, Italia	Sol-Gel Ru/SiO_2 catalysts for Green Chemistry
	52	The 52nd IROAST Seminar	2019/2/21	Chiristian Rentenberger	University of Vienna, Austria	Structural and mechanical properties of rejuvenated metallic glasses
	53	The 53rd IROAST Seminar	2019/2/21	Alexei Vinogradov	Norwegian University of Science and Technology, Norway	What governs the ductility of metals
	54	The 54th IROAST Seminar	2019/2/28	Dmitri A. Molodov	RWTH Aachen University, Germany	Recent developments in the study of grain/twin boundary mediated plasticity
	55	The 55th IROAST Seminar	2019/3/5	Richard Dronskowski	RWTH Aachen University, Germany	New Aspects of Chemical Bonding in Solids using Orbitals and Plane Waveselit
	56	The 56th IROAST Seminar	2019/3/14	Hamid Ghandehari	Utah University, USA	IPPS Lecture & Seminar No.48
2019	57	The 57th IROAST Seminar	2019/4/12	Jens Hartmann	Universität Humburg, Germany	Carbon Dioxide Removal: Costs, potentials and side effects
	58	The 58th IROAST Seminar	2019/7/4	Shirley Shen	Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia	CSIRO Australia: Global Collaboration between Science and Industry – Additive manufacturing research in CSIRO
	59	The 59th IROAST Seminar	2019/9/3	U Rajendra Acharya	Ngee Ann Ploytechnic, Singapore	Data mining techniques in Medical Informatics
	60	The 60th IROAST Seminar ~The 5th IRCMS&IROAST Joint Seminar~	2019/10/29	Takumi Higaki	IROAST, Kumamoto University	
	61	The 61st IROAST Seminar	2019/10/23	Che-Hua Yang	National Taipei University of Technology, Taiwan	Additive Manufacturing Center and the Nondestructive Evaluation Activities
	62	The 62nd IROAST Seminar	2019/11/10-11	Anita Zeidler / Matthieu Micoulaut	University of Bath, UK / Sorbonne University, France	Pan Pacific International Symposium on Chalcogenide Functional Materials
	63	The 63rd IROAST Seminar	2019/11/11	Daniel P. Zitterbart	Woods Hole Oceanographic Institute, USA	The physics of animal groups - using remote sensing technologies to understand behavior and ecology of penguins and whales
	64	The 64th IROAST Seminar	2019/11/13	Tomonari Furukawa	University of Virginia, USA	Passive and Active Vehicle Safety – Technologies towards Autonomous Driving
	65	The 65th IROAST Seminar	2019/11/25	Maria Jose Cocero	The University of Valladolid, Spain	Lignin Biorefinery: Processes and Products
	66	The 66th IROAST Seminar	2019/11/25	Josep Lluis Varona-Vilar	Universidad de Valencia, Spain	Technoscience. Risks & opportunities of a social revolution
	67	The 67th IROAST Seminar	2019/12/3	Konstantinos Kontis	University of Glasgow, England	Going Interstellar
	68	The 68th IROAST Seminar	2019/12/12	Etsuko Fujita	Brookhaven National Laboratory, USA	Our Investigations of Carbon Dioxide Reduction: Past and Present
	69	The 69th IROAST Seminar	2019/12/13	Alfonso Gastelum Storozzi / Patrice Delmas	National Autonomous University of Mexico, Mexico / The University of Aukland, Newzealand	Deep Learning & Image Processing for CT data analysis of morphometric parameters in soil
	70	The 70th IROAST Seminar	2019/12/18	Ramesh S. Pillai	University of Geneva, Switzerland	Chemical modifications of RNA in control of mammalian gene expression
	71	The 71st IROAST Seminar	2019/12/18	Hamid Ghandehari	Utah University, USA	Biomaterials for Localized Delivery: Design and Safety Considerations
	72	The 72nd IROAST Seminar	2020/1/29	Olivier Boutin	Aix Marseille University, France	Waste treatment in high-temperature and high-pressure water: from fundamentals to applications
	73	The 73rd IROAST Seminar	2020/2/6	Tomoyasu Mani	University of Conneticut, USA	Power of Vibrational Probes to Study Electrons in π-Conjugated Organic Molecules
	74	The 74th IROAST Seminar	2020/3/13	Parasuraman Selvam	Indian Institute of Technology Madras, India	Nanoscopic Inorganic Structures–A New Class of Materials for Sustainability
2020	75	The 75th IROAST Seminar ~The 7th IROAST-IRCMS Joint Seminar "Creation of joint researches which develops interdisciplinary research fields" (The 67th IRCMS Seminar)~	2020/8/25	Hidenobu Mizuno, IRCMS, Quantitative bioimage analysis to elucidate dynamics of hematopietic stem cells in living animals Koichi Nishiyama, IRCMS, Combined in vitro and in silico analyses to dissect roles of blood flow in metastatic intravasation of cancer cells Tokio Tani, FAST, Development of the novel drugs for Adult T-cell Leukemia based on the modifications of nuclear morphology Buluke, IRCMS, Significance of tumor microenvironmental 15pgdh depletion in pancreatic cancer Sheng Guojun, IRCMS, MMP sensors and sensor-based in vivo delivery of small molecules	-	-
	76	The 76th IROAST Seminar ~The 1st IROAST Research Unit Progress Report Seminar~	2020/9/28	Keitaro Takahashi / Kei Ishida / Shin-Ichi Ohira / Atushi Sainoki / Makiko Kobayashi / Ruda Lee / Takumi Higaki / Mutsuhiro Aida / Yutaka Kuwahara	FAST / FAST / FAST / IROAST / FAST / IROAST / IROAST / IROAST / FAST	
2021	77	The 77th IROAST Seminar	2021/5/12	Young researchers from Gioacchino（Cino）Viggiani's lab, Mukunoki's Lab and X-Earh center	Université Grenoble Alpes, France and KU	Discussion seminar for Study on particle and fluid behaviors in granular materials using micro tomography
	78	The 78th IROAST Seminar ~IROAST Research Unit (Young Researchers) Research Presentation Series 2021 (The first session)~	2021/12/22	Mitsuhiro Aida / Makiko Kobayashi / Ruda Lee	FAST / IROAST / IROAST	Plant Stem Cells and Regeneration / Advanced Biomedical Evaluation System / Development of Novel Therapeutic Strategy Using Iron Targeted Upconversion Nanoparticles for Parkinson's Disease
	79	The 79th IROAST Seminar ~IROAST Research Unit (Young Researchers) Research Presentation Series 2021 (The second session)~	2022/1/26	Mitsuru Sasaki / Keitaro Takahashi / Takumi Higaki	IINa / FAST / FAST	Nanomaterials Processing for Medical, Cosmetic, and Environmental Applications / Radio Astronomy / Quantitative Bioimaging
	80	The 80th IROAST Seminar ~IROAST Research Unit (Young Researchers) Research Presentation Series 2021 (The third session)~	2022/2/21	Kei Ishida / Atsushi Sainoki / Shin-ichi Ohira	CWMD / FAST / FAST	Deep Learning for Hydrology / Development of Microbially-Aided Carbon Sequestration Technology / Environmental Impacts of Ionic Solutes
	81	The 81st IROAST Seminar ~IROAST Research Unit (Young Researchers) Research Presentation Series 2021 (The fourth session)~	2022/3/2	Gaochuang Cai / Yutaka Kuwahara / Hiroki Matsuo	IROAST / FAST / IROAST	Next-Generation Design of Structures / Bio-inspired Functional Molecular System / Ferroelectric Photovoltaics
	82	The 82nd IROAST Seminar	2022/1/7	Tomonari Furukawa	University of Virgina, USA	Robot Vision and Mapping toward Inspection and Maintenance

		Title	Date	Speaker	Affiliation	Theme
	83	The 83rd IROAST Seminar ~The 8th IRCMS-IROAST Joint Seminar~	2022/3/8	Hidenobu Mizuno, IRCMS, Quantitative bioimage analysis to elucidate dynamics of hematopoietic stem cells in living animals Yuichiro Arima, IRCMS, Development of CT based-immunostaining Guojun Sheng, IRCMS, Evaluation of target-specific polymeric nanoparticles for inhibition of cancer cell metastasis Kenichi Miharada, IRCMS, A large scale red blood cell production towards future transfusion therapies Hiroki Matsuo, IROAST, Development of ferroelectric materials for miniaturized energy storage applications	-	-
2022	84	The 84th IROAST Seminar	2022/12/7	Patrice Delmas	The University of Auckland, NZ	Computer vision and its applications in the New Zealand blue economy
	85	The 85th IROAST Seminar	2022/10/13	Nicolae Barsan	University of Tubingen, Germany	Operando investigations of gas sensing with semiconducting metal oxides
	86	The 86th IROAST Seminar	2022/10/28	Suttichai Assabumrungrat	Chulalongkorn University, Thailand	A-Z of Biorefinery: A Promising Approach Towards Sustainable Bio-Circular-Green Economy Development
	87	The 87th IROAST Seminar ~Workshop on the fundamentals of grain boundary phenomena~	2022/11/1	Pavel Lejček / Takahito Ohmura / Yukio Sato / Molodov Dmitrij Alekseevic	Academy of Sciences of Czech Republic, Czech Republic / RWTH Aachen University, Germany	Entropy Effect in Solute Segregation at Grain Boundaries / Microstructural and Nano-mechanical Characterization of Dislocation-Grain Boundary Interaction / Grain boundary structure and electrical transport in ZnO bicrystals / On shear-coupled grain boundary migration: Model experiments on Al and Cu bicrystals
	88	The 88th IROAST Seminar	2022/11/29	Josep Lluís Barona-Vilar	University of Valencia, Spain	Historical-ecology of the COVID pandemic
	89	The 89th IROAST Seminar	2022/12/2	Josep Lluís Barona-Vilar	University of Valencia, Spain	The international impact of Japanese nutritional science and policy (1920-1945)
	90	The 90th IROAST Seminar	2023/2/2	Konstantinos Daniel Tsavdaridis	City, University of London, UK	The 3D Modular Building Connections (3DMBC) project
	91	The 91th IROAST Seminar	2023/2/14	Shie-Ming Peng	Taiwan National University, Taiwan	From Metal-Metal Multiple Bonds to Helical Metal Strings
	92	The 92th IROAST Seminar	2023/2/17	Olivier Boutin	Aix Marseille University, France	Subcritical water for waste treatment and biomass valorisation
	93	The 93th IROAST Seminar	2023/3/1	Dario Zappa	The University of Brescia, Italy	Metal oxide nanostructures as building blocks for energy and environmental applications
2023	94	The 94th IROAST Seminar	2023/5/16	Dmitri Molodov	RWTH Aachen University, Germany	Grain boundary migration I
	95	The 95th IROAST Seminar	2023/5/18	Dmitri Molodov	RWTH Aachen University, Germany	Grain boundary migration II
	96	The 96th IROAST Seminar	2023/6/23	Makiko KOBAYASHI, Kumamoto University, Japan, Patchable piezoelectric/ultrasonic sensor development for automatic abnormal condition detection during homecare stage Yuta NAKASHIMA, Kumamoto University, Japan, Development of microfluidic devices for bio-medical applications Jungchul LEE, Korea Advanced Institute of Science and Technology, Korea, Heater-integrated fluidic resonators Wei ZHANG, Peking university, China, MEMS differential pressure flowmeter Dacheng ZHANG, Peking university, China, Discussion on material mechanical test system of micro-nano-fabricating structure	IROAST	
	97	The 97th IROAST Seminar	2023/7/31	Ick Chan Kwon	Korea Institute of Science and Technology (KIST), Korea	Design of Drug Delivery Guided by Molecular Imaging Technology
	98	The 98th IROAST Seminar	2023/8/25	Tran Tung	The University of Adelaide, Australia	Advanced graphene-based composite materials for emerging applications
	99	The 99th IROAST Seminar	2023/9/19	Martin Dienwiebel	Karlsruhe Institute of Technology, Germany	On the humidity dependence of highly loaded graphite contacts
	100	The 100th IROAST Seminar	2023/9/29	Rajendra Acharya	Southern Queensland, Australia	Applications of AI for Healthcare
	101	The 101st IROAST Seminar	2023/10/6	Suttichai Assablmrungrat	Chulalongkorn University, Thailand	Process Intensification and Its Role in Biorefinery
	102	The 102nd IROAST Seminar	2023/10/20	Daniel P. Zitterbart	Woods Hole Oceanographic Institution, USA	Environmental science and ecology for biodiversity conservation
	103	The 103rd IROAST Seminar	2023/10/19	Magali Grison / Louise Fougère	French National Center for Scientific Research, University of Bordeaux, France	A revised model of the ER/pre-Golgi interface based on methodological advances in super-resolution microscopy
	104	The 104th IROAST Seminar	2023/10/27	Maria Jose Cocero	The University of Valladolid, Spain	Development of Sustainable Biorefineries: Valorization of Lignin
	105	The 105th IROAST Seminar	2023/11/7	Pusztai Laszo	Wigner Research Centre for Physics, Hungary	Understanding the structure of liquids: from the stone age to artificial intelligence
	106	The 106th IROAST Seminar	2023/11/14	Tomoyasu Mani	University of Connecticut, USA	Photogenerated Spin-Correlated Radical Pairs as Molecular Qubits
	107	The 107th IROAST Seminar	2023/11/15	Josep Lluís Barona-Vilar	University of Valencia, Spain	Artificial Intelligence in Health Care. Potentials, risks and ethical impact
	108	The 108th IROAST Seminar	2023/11/28	Marc De Boissieu	SiMAP, Grenoble Alpes University, France	Thermal conductivity and lattice dynamics in structurally complex materials
	109	The 109th IROAST Seminar	2023/12/8	Gioacchino Viggiani	Université Grenoble Alpes, France	Recent developments in laboratory testing of geomaterials, with emphasis on imaging
	110	The 110th IROAST Seminar	2023/12/12	Agus P. Sasmito	McGill University, Canada	Two-phase closed thermosyphon for artificial ground freezing and geothermal heat extraction
	111	The 112th IROAST Seminar	2023/12/15	Helen (Xiaoxue) Xu	University of Technology Sydney, Australia	Development of Upconversion Nanomaterials for Precision Theranostics
	112	The 111th IROAST Seminar	2023/12/21	Wen-Shing Lee	National Taipei University of Technology, Taiwan	Data Mining in Energy Management System
	113	The 113th IROAST Seminar	2023/12/22	Tomonari Furukawa	University of Virginia, USA	Motion Tracking of a High-Speed Humanoid Using Dynamic Measurements Fusion
	114	The 114th IROAST Seminar	2024/1/10	Hiroto Kitaguchi	University of Birmingham, UK	Towards comprehensive understanding in material characterisations- Power of electron microscopy (EM) –
	115	The 115th IROAST Seminar	2024/1/26	Amir Si Larbi / Konstantinos Daniel Tsavdaridis / Gaochuang Cai	ENISE, University of Lyon, France / City, University of London, UK / IROAST	TRC for structural repairing and strengthening / Seismic-resistant design of connections with perforated beams: RWS connections / Performance and evaluation of high-performance concrete and composite structural elements under strong earthquakes
	116	The 116th IROAST Seminar	2024/2/1	Worapon Kiatkittipong	Silpakorn University, Thailand	Lipid-based biorefinery research aligned with Thai strategic industry alliances
	117	The 117th IROAST Seminar	2024/2/20	Pavel Lejček	Academy of Sciences of the Czech Republic, University of Chemistry and Technology, Czech Republic	Introduction to grain boundary segregation
	118	The 118th IROAST Seminar	2024/2/21	Dario Zappa	The University of Brescia, Italy	Synthesis and integration of nanosized materials into functional devices
2024	119	The 119th IROAST Seminar	2024/5/7	Stelios Rigopoulos	Imperial College of London, UK	Population Balance Modelling - Fundamentals and Applications
	120	The 120th IROAST Seminar	2024/5/21	Dmitri Molodov	RWTH Aachen University, Germany	Migration of Grain Boundaries I
	121	The 121st IROAST Seminar	2024/5/23	Dmitri Molodov	RWTH Aachen University, Germany	Migration of Grain Boundaries II
	122	The 122nd IROAST Seminar	2024/5/28	Viren Menezes	Indian Institute of Technology Bombay, India	Shock wave driven drug injector

		Title	Date	Speaker	Affiliation	Theme
	123	The 123rd IROAST Seminar	2024/6/13	M. Abul Hasnat	Shajalal University of Science & Technology, Bangladesh	Electrocatalysis for resolving energy and environmental issues
	124	The 124th IROAST Seminar	2024/7/8	Ick Chan Kwon	Korea Institute of Science and Technology (KIST), Korea	Visualization of EGFR Internalization as a Theranostic Approach
	125	The 125th IROAST Seminar	2024.7.12, 2024.	Patrice Delmas	The University of Auckland, New Zealand	AI and Computer vision for geo-materials
	126	The 126th IROAST Seminar	2024/7/26	Youn-Woo Lee	Seoul National University, Korea	Beyond critical point: Creation of supercritical fluid technology
	127	The 127th IROAST Seminar	2024/8/21	Reetu Rani, IROAST, Exploring methods for selective transfer of ionic solutes Prafulla Bahadur Malla, IROAST, Seismic Performance of Shear Walls with Low Bond Ultra High-Performance Reinforcing steel bars under Multiple Reversed Cyclic Loading Jonas Agutaya,IROAST, Elucidation of the gas sensing mechanism of semiconductor metal oxides by a combined DRIFTS and DFT approach	-	-
	128	The 128th IROAST Seminar	2024/10/8	Shttichai Assabumrungrat	Chulalongkorn University, Thailand	Multifunctional Reactor: The Key to Sustainable Production
	129	The 129th IROAST Seminar	2024/10/22	Maria Jose Cocero	The University of Valladolid, Spain	Contributions to the Decarbonisation of Industry through the Transformation of Biomass into Chemical Products
	130	The 130th IROAST Seminar	2024/10/24	Mani Tomoyasu	University of Connecticut, USA	Design Strategies for Developing Heavy-Atom-Free Photoredox Catalysts
	131	The 131st IROAST Seminar	2024/10/29	Anthony Leung	Hong Kong University of Science and Technology, China	Mechanics of rooted soil: recent advances
	132	The 132nd IROAST Seminar	2024/11/5	Pavel Lejček	Academy of Sciences of the Czech Republic, Czech Republic	Microstructure of metallic materials produced by additive manufacturing
	133	The 133rd IROAST Seminar	2024/11/8	Josep Lluís Barona-Vilar	University of Valencia, Spain	Historical origins of the vaccine. Achievements and controversies
	134	The 134th IROAST Seminar	2024/11/22	Dario Zappa	The University of Brescia, Italy	Recent advances in MOX-based electro-optical chemical sensors and fuel cells
	135	The 135th IROAST Seminar	2024/11/22	Tung Tran	The University of Adelaide, Australia	Development of chemical vapor sensors their potential applications
	136	The 136th IROAST Seminar	2024/11/22	Pusztai Laszo	Wigner Research Centre for Physics, Hungary	Neutron scattering methods in condensed matter physics, chemistry and materials sciences
	137	The 137th IROAST Seminar	2024/12/11	Yufeng ZHENG	Peking University, China	Development of High Strength Biodegradable Metals for Regenerative Medicine
	138	The 138th IROAST Seminar	2024/12/17	Reiko Oda	CBMN UMR5248, CNRS, Université de Bordeaux, France	Transferring Chiral Information between Objects with different dimensions
	139	The 139th IROAST Seminar	2024/12/20	Dongfang Liang	University of Cambridge, UK	Meshfree Modelling of Ocean Waves, Landslides and Soil-Water Interactions
	140	The 140th IROAST Seminar	2025/1/8	Derek Elsworth	The Pennsylvania State University, USA	Seismicity-Permeability Linkages in Fractured Reservoirs
	141	The 141th IROAST Seminar	2025/3/14	Abdul Hafeez Baig	University of Southern Queensland, Australia	Healthcare and Technology

	Title	Date	Speaker	Format	Venue
1	IROAST Kickoff Symposium	2017.3.23	Jorge Beltramini, IROAST Visiting Professor ,The University of Queensland, Australia Ramesh Shanmughom Pillai, IROAST Visiting Professor, University of Geneva, Switzerland Josep-Lluís Barona-Vilar, IROAST Visiting Professor, Universidad de Valencia, Spain Paul Bowen, The University of Birmingham, UK Konstantinos Kontis, IROAST Visiting Professor, University of Glasgow, UK Supri Soengkono, IROAST Visiting Professor, GNS Science, New Zealand Atsuhi Sainoki, IROAST Associate Professor Aeju Lee, IROAST Associate Professor Takashi Ishida, IROAST Assistant Professor	Onsite	Kumamoto City
2	The 1st IROAST Symposium on "Plant Cell and Developmental Biology: Approaches to Multiscale Biosystems"	2017.11.14	Brad Day , Michigan State University Gohta Goshima, Nagoya University Christian Hardtke, University of Lausanne Takashi Hashimoto, Nara Institute of Science and Technology Yuling Jiao, Chinese Academy of Sciences Junko Kyozuka, Tohoku University Bo Liu, University of California Davis Shinichiro Sawa, Kumamoto University Hiroyoshi Takano, Kumamoto University Tokio Tani, Kumamoto University Masaaki Umeda, Nara Institute of Science and Technology	Onsite	Kumamoto City
3	The 2nd IROAST Symposium "International Workshop on Geomechanics from micro to macro: trends and challenges"	2018.6.11	Jose Andrade, Caltech Cino Viggiani, Université Grenoble Alpes Takashi Matsushima, Tsukuba University Itai Einav, the University of Sydney Yosuke Higo, Kyoto University Toshifumi Mukunoki, Kumamoto University Daiki Takano, Port and Airport Research Institute	Onsite	Kumamoto City
4	The IROAST 3rd symposium titled "Kumamoto Symposium on Advanced Nano & Supramolecular Materials"	2018.8.6	Leonard F. Lindoy, University of Sydney Peter Comba, Heidelberg University Janusz S. Lipkowski, Cardinal Stefan Wyszynski University Ok-Sang Jung, Pusan National University Malcolm Halcrow, University of Leeds Masato Machida, Kumamoto University Martino Di Serio, University of Naples Federico II Javier Campo, University of Zaragoza Takafumi Kitazawa, Toho University Selvan Demir, The University of Göttingen Yoichi Habata, Toho University Murray Baker, The University of Western Australia Toshihiro Ihara, Kumamoto University Kil Sik Min, Kyungpook National University Jonathan R. Nitschke, University of Cambridge Gang Wei, CSIRO	Onsite	Kumamoto City
5	The 1st KU-KAIST Joint Symposium (the 3rd IRCMS & IROAST Joint Seminar)	2018.10.22	Hitoshi Takizawa, Kumamoto University Jinju Han, KAIST Goro Sashida, Kumamoto University Koichi Nishiyama, Kumamoto University Injune Kim, KAIST Guojun Sheng, Kumamoto University Ho Min Kim, KAIST Takumi Higaki, Kumamoto University Hidenobu Mizuno, Kumamoto University Pilhan Kim, KAIST Aeju Lee, Kumamoto University Young Seok Ju, KAIST Yorifumi Satou, Kumamoto University Yufeng Zheng, Kumamoto University Jaemyoung Suh, KAIST	Onsite	Daejeon, Republic of Korea
6	The 2nd KU-KAIST Joint Symposium (the 4th IRCMS & IROAST Joint Seminar)	2019.1.25	Young Seok Ju, KAIST Hiroto Ohguchi, Kumamoto Univeristy Tokio Tani, Kumamoto Univeristy Takashi Minami, Kumamoto Univeristy Jae Myoung Suh, KAIST Takatsugu Ishimoto, Kumamoto Univeristy Masaya Baba, Kumamoto Univeristy Injune Kim, KAIST Yuichiro Arima, Kumamoto Univeristy Gou Young Koh, KAIST/IBS Vascular Biology Center Toshio Suda, Kumamoto Univeristy Takuro Niidome, Kumamoto Univeristy Thinh Minh Do, Kumamoto Univeristy Pilhan Kim, KAIST Yoshitaka Nakanishi, Kumamoto Univeristy	Onsite	Kumamoto City

	Title	Date	Speaker	Format	Venue
7	The 4th IROAST Symposium -8th PHOENICS International Symposium "New Waves in Supramolecular and Chemistry and Superstructured Materials"	2019.1.24-2019.1.25	ODA Reiko, University of Bordeaux SAGAWA Takashi, Kyoto University CRASSOUS Jeanne, Universite Rennes OKAZAKI Yutaka, Kyoto University RYU Naoya, Kumamoto Industrial Research Institute YOSHIDA Kyohei, Kumamoto Industrial Research Institute SAKURAI Toshihiko, Tottori University SHUNDO Atsuomi, Kyushu University NISHIHARA Masamichi, Kyushu University GUO, Longhai, Beijing University of Chemical Technology Li, Xiaoyu, Beijing University of Chemical Technology MARUSKA Audrius Sigitas, Vytautas Magnus University FUJITA Etsuko, Brookhaven National Laboratory JINTOKU Hirokuni, National Institute of Advanced Industrial Science and Technology MANI Tomoyasu, University of Connecticut, Presto CORONADO Eugenio, University of Valencia HSIEH You-Lo, University of California at Davis KIM Jaehwan, Inha University KITAGAWA Kazuo, Kyoto Municipal Institute of Industrial Technology and Culture NAGATANI Asahiro, Hyogo Prefectural Institute of Technology ASAKURA Shuichi, Industrial Technology Center Gifu	Onsite	Kumamoto City
8	The 3rd KU-KAIST Joint Symposium (the 6th IRCMS & IROAST Joint Seminar)	2019.11.11-2019.11.12	Yong-Mahn Han, KAIST Young Seok Ju, KAIST Takatsugu Ishimoto, Kumamoto University Inkyung Jung, KAIST Ruda Lee, Kumamoto University Terumasa Umemoto, Kumamoto University You-Me Kim, KAIST Yoshikazu Hayashi, Kumamoto University Aiko Sada, Kumamoto University Jinju Han, KAIST Hidenobu Mizuno, Kumamoto University Ki-Jun Yoon, KAIST Jae-Byum Chang, KAIST Taeyun Ku, KAIST Koichi Nishiyama, Kumamoto University Jae Myung Suh, KAIST Yuichiro Arima, Kumamoto University Hitoshi Takizawa, Kumamoto University Injune Kim, KAIST Jee Myung Yang, KAIST Tomomasa Yokomizo, Kumamoto University Ryul Kim, KAIST Sanshiro Hanada, Kumamoto University Jingu Lee, KAIST	Onsite	Daejeon, Republic of Korea
9	The 5th IROAST Symposium–International Symposium on Strategies on mechanical optimization in plants	2019.12.5	Olivier Hamant, ENS Lyon Takumi Higaki, Kumamoto University Kunita Itsuki, Ryukyu University Yoichiro Hosokawa, NAIST Haruka Tomobe, Kyoto University Masatsugu Toyota, Saitama University Yusuke Onoda, Kyoto University Ali Ferjani, University of Tokyo	Onsite	Kumamoto City
10	The 6th IROAST Symposium－1st Pan Pacific Reverse Monte Carlo Conference	2020.2.20-2020.2.21	David KEEN, STFC ISIS, University of Oxford Shinji KOHARA, NIMS Wolf-Christian PILGRIM, Marburg University Matthew TUCKER, SNS, ORNL Johnathan BULLED, University of Oxford Benjamin KLEE, Marburg University Shinya HOSOKAWA, Kumamoto University Alexei KUZMIN, University of Latvia Fabio IESARI, Saga Light Source Szilvia POTHOCZKI, Wigner Research Centre Imre BAKÓ, Research Centre for Natural Sciences, Hungary Yukinobu KAWAKITA, J-PARC Robert McGREEVY, ISIS, STFC László PUSZTAI, Kumamoto University, Wigner Research Centre Andrew GOODWIN, University of Oxford Martin DOVE, Queen Mary University of London Ella SCHMIDT, University of Oxford Philip WELCH, University of Oxford Pál JÓVÁRI, Wigner Research Centre Yohei ONODERA, Kyoto University Jens STELLHORN, Hiroshima University Akihide KOURA, Kumamoto University László TEMLEITNER, Wigner Research Centregary	Onsite	Kumamoto City

	Title	Date	Speaker	Format	Venue
11	The 4th KAIST-KU Workshop and Joint Symposium-Facilitating Collaboration in Biomedical Engineering Research	2021.2.22	Akio KOBAYASHI, Kumamoto University Jessie Sungyun JEON, KAIST Shinichiro SAWA, Kumamoto University Daisuke KUROTAKI, Kumamoto University Jong-Eun PARK, KAIST Tokio TANI, Kumamoto University Jinkook KIM, KAIST Pilhan KIM, KAIST Hidenobu MIZUNO, Kumamoto University Won-Il JEONG, KAIST Masashi MURAMATSU, Kumamoto University Ji Eun OH, KAIST Kei-ichiro ISHIGURO, Kumamoto University Takuro NIIDOME, Kumamoto University Hyun Jung CHUNG, KAIST Yufeng ZHENG, Kumamoto University	Onsite & Online	Kumamoto City, Daejeon, Republic of Korea
12	The 7th Kumamoto University IROAST Symposium	2021.11.22	Takumi HIGAKI, Kumamoto University Hiroki MATSUO, Kumamoto University Ruda LEE, Kumamoto University Yuta Nakashima, Kumamoto University Mitsuo AIDA, Kumamoto University	Onsite & Online	Kumamoto City
13	The 8th IROAST Symposium -"X-Ray CT Visualization for Socio-Cultural Engineering & Environmental Materials, 2021"	2021.12.7-2021.12.8	Melvin Diaz, Korea Maritime & Ocean University Agus Sasmito, McGill University Toshifumi Mukunoki, Kumamoto University Akira Sato, Kumamoto University Kenichi Okubo, Nikon Solutions Co., Ltd. Alessandro Tengattini, Université Grenoble Alpes Ilija Vego, Université Grenoble Alpes, France Yuichiro Arima, Kumamoto University Buluke, Kumamoto University Patrice Jean Delmas, The University of Auckland Sanae Takasugi, Bruker Japan Zeinab Aliabadian, Kumamoto University Jiaxi Yang, Kumamoto University Hideharu Sugimoto, Kumamoto University Shuhei Matsumoto, Kumamoto University Kamil Souček, The Czech Academy of Science Fomzi Yang, Yonsei University	Online	
14	The 9th IROAST Symposium ~Nano-organics and Nano-hybrids~	2022.1.21	Yutaka Okazaki, Kyoto University Takunori Harada, Oita University Yoshiro Kaneko, Kagoshima University Shunsuke Shiba, Ehime University Yasuchika Hasegawa, Hokkaido University Hiroshi Yabu, Tohoku University Aya Tanatani, Ochanomizu University Tatsuo Taniguchi, Chiba University Takashi Hirose, Kyoto University Yutaka Kuwahara, Kumamoto University	Online	
15	The 10th IROAST Symposium - CSIRO Manufacturing engagement with Kumamoto University IROAST on science innovation-	2022.7.4	Kathie McGregor, CSIRO Robert Wilson, CSIRO Daniel East, CSIRO Kazuki Takashima, Kumamoto University Peter King, CSIRO Kwangsik Kwak, Kumamoto University Daniel Liang, CSIRO Shiqin Yan, CSIRO Hiromoto Kitahara, Kumamoto University Haopeng Shen, CSIRO Ryusuke Masunaga, Kumamoto University Hiromoto Kitahara, Kumamoto University Kazuki Kuhlmann, CSIRO	Online	
16	The 11th IROAST Symposium on data-driven approach on EXAFS analysis	2022.9.9	A. Di-Cicco, The University of Camerino F. Iesari, Aichi-SR L. Pusztai, Kumamoto University H. Kumazoe, Kumamoto University	Onsite & Online	Kumamoto City
17	The 13th IROAST Symposium ～Japan-France Joint Seminar on "Nano-Organics and Nano-Hybrids" and "Chiral Nanoobjects for Photonic Application"	2022.11.9	Yann FERRAND, University of Bordeaux Emilie POUGET, University of Bordeaux Sylvain NLATE, University of Bordeaux Celine OLIVIER, University of Bordeaux Brice KAUFFMANN, University of Bordeaux Tsuyoshi FUKAMINATO, Kumamoto University Yutaka KUWAHARA, Kumamoto University	Onsite	Kumamoto City
18	The 12th IROAST Symposium ～Japan-Korea Joint Symposium of Nano-inorganic / organic and supramolecular Materials～	2022.11.10-2022.11.12	Ok-Sang Jung, Pusan National University Shinya Hayami, Kumamoto University Songyi Lee, Pukyong National University Hitoshi Miyasaka, Tohoku University Kil Sik Min, Kyungpook National University Yoshihiro Sekine, Kumamoto University Minyoung Yoon, Kyungpook National University Mina Sakuragi, Sojo University Eunsung Lee, POSTECH Shintaro Ida, Kumamoto University	Onsite	Kumamoto City

	Title	Date	Speaker	Format	Venue
19	The 14th IROAST International Symposium on plant development and biotic interaction	2022.12.13	Soazig Guyomarc'H, University of Montpellier Hidehiro Fukaki, Kobe University Ryushiro Kasahara, FAFU, China, Kumamoto University Bruno Favery, INRAE, Kumamoto University Miachael Quentin, INRAE Stephanie Jaubert-Possamai, INRAE Salome Solule, INRAE Sarah Ranty-Roby, INRAE Sophie Mantelin, INRAE Cyril Van-Ghelder, INRAE Yasuhiro Kadota, Riken Kazuki Sato, Riken Erika Iino, Riken Shin-ichiro Sawa, Kumamoto University Mitsuhiro Aida, Kumamoto University Takumi Higaki, Kumamoto University Nao Kamino, Kumamoto University	Onsite	Kumamoto City
20	The 15th IROAST International Symposium on "Advanced Materials and Design for Structural Safety and Sustainability (1st AMDS3)"	2023.1.30-2023.1.31	Takafumi NOGUCHI, University of Tokyo Barzin MOBASHER, Arizona State University Yan XIAO, China Feng XIONG, China Xiangcheng ZHANG, China Fuqiang SHEN, China Zhenyuan HANG, China Kazuo DAN, Kumamoto University Haihua ZHANG, China Daniele WALDMANN, Technischen Universität Darmstadt Yue WEN, Kumamoto University Tine TYSMANS, Belgium Marano G. CARLO, Politecnico di Torino Xi CHEN, Germany A. DANSOU, France Dimitrios AGGELIS, Belgium Jianfei CHEN, China Leonardo M. MASSONE, Chile Jiandong WU, China Prafulla Bahadur MALLA, Kumamoto University Man ZHANG, Japan Yixi LIU, China Yuping SUN, Japan Chong REN, China	Onsite & Online	Kumamoto City
21	The 16th IROAST Symposium, AFJ Symposium～Concept to deployment of thin wall/cellular structure based system/components by additive manufacturing～	2023.6.15	Daniel East, CSIRO Robert Wilson and Dr. Kun Yang, CSIRO Martin Leary, RMIT Guoxing Lu, Swinburne University of Technology Haopeng Shen, CSIRO Fiona Spirrett, Osaka University Ali Ramezan Nejad, CSIRO Vu Nguyen, CSIRO Kazuki Takashima, Kumamoto University Kwangsik Kwak, Kumamoto University Hoang Phu Nyuyen, University of Medicine and Pharmacy, Cho Ray hospital Stuart Douglas, Maxonig	Onsite & Online	Kumamoto City
22	The 17th IROAST Symposium~Advanced Concepts for Intelligent Vision Systems (Acivs) 2023~	2023.8.21	Alexander Mark WOODWARD, Riken Patrice DELMAS, The University of Auckland	Onsite	Kumamoto City
23	The 18th IROAST Symposium "Cutting-edge Research on Disaster Prevention and Mitigation – Understanding Nature, Harmonizing with Nature, and Leading to a Safe and Secure Future."	2023.11.21	Presenters; Takahiro HOSONO, Kumamoto University Atsushi SAINOKI, Kumamoto University Gaochuang CAI, Kumamoto University Kei ISHIDA, Kumamoto University Poster presenters; Reetu Rani, Kumamoto University Prafulla Bahadur MALLA, Kumamoto University Jonas Karl N. AGUTAYA, Kumamoto University Dr. Mohammad Atiqur RAHMAN, IROAST	Onsite & Online	Kumamoto City

	Title	Date	Speaker	Format	Venue
24	The 19th IROAST Symposium "Post PDSTM International Conference on Spin Transition"	2023.12.2-2023.12.4	Malcolm Halcrow, University of Leeds Guillaume Chastanet, University of Bordeaux Sanjit Konar, Indian Institute of Science Education and Research Bhopal Azzedine Bousseksou, LCC - University of Toulouse Ruben Mario,KIT Karlsruhe Strasbourg Jena Barbara Sieklucka, Jagiellonian University Eric Collet, University of Rennes Grace Morgan, University College Dublin Birgit Weber, University of Bayreuth Colette Boskovic, The University of Melbourne Smail Triki, University of Brest Amandine Bellec, Université Paris Cité Osamu Sato, Kyushu University Motohiro Nakano, Osaka University Tadahiko Ishikawa, Tokyo Institute of Technology Yukinari Sunatsuki, Okayama University Takuya Shiga, University of Tsukuba Zhao-yang Li,Nankai University Takayoshi Nakamura, Hokkaido University Saioa Cobo, Université Grenoble Alpes Tetsuro Kusamoto, Osaka University Hitoshi Miyasaka, Tohoku University David Brook, San Jose State University	Onsite	Kumamoto City
25	The 20th IROAST Symposium "International Mini-Symposium on Sustainable and Carbon-Neutral Structures and Materials"	2024.1.8	Yan Xiao, Zhejiang University Amir Si Larbi, École Centrale de Lyon, France Konstantinos Daniel Tsavdaridis, City, University of London, UK Ilias Dimitrakopoulos, Hong Kong University of Science and Technology, China Mauricio Cardenas Laverde, Shenzhen University, China / Founding architect of Cardenas Conscious Design Studio, Italy Yuki Kuroiwa, Kumamoto University Prafulla Bahadur Malla, IROAST, Kumamoto University Dan Yuan, Kumamoto University (Exchange student from Xi'an University)	Onsite	Kumamoto City

		Name	Position	Affiliation	Term
FY2017	1	Martin Dienwiebel	Visiting Prof.	Karlsruhe Institute of Technology (KIT), Germany	2017.8.15-2017.8.17
	2	Yang Kim	Visiting Prof.	Kosin University, Korea	2017.9.3-2017.9.10
	3	Pavel Lejček	Visiting Prof.	Academy of Sciences of the Czech Republic, University of Chemistry and Technology, Czech Republic	2017.10.14-2017.10.29
	4	Hamid Ghandehari	Visiting Prof.	University of Utah, USA	2017.10.24-2017.10.28
	5	Josep-Lluis Barona-Vilar	Visiting Prof.	Universidad de Valencia, Spain	2017.11.14-2017.11.24
	6	Tomonari Furukawa	Visiting Prof.	Virginia Polytechnic Institute and State University, USA	2017.11.22-2017.12.2
	7	Etsuko Fujita	Visiting Prof.	Brookhaven National Laboratory, USA	2017.12.2-2017.12.7
	8	Rahul Raveendran Nair	Visiting Prof.	The University of Manchester, UK	2017.12.2-2017.12.9
	9	Amir A. Farajian	Visiting Prof.	Wright State University, USA	2017.12.16-2017.12.27
	10	Ramesh Shanmughom Pillai	Visiting Prof.	University of Geneva, Switzerland	2017.12.17-2017.12.24
	11	Derek Elsworth	Visiting Prof.	Pennsylvania State University, USA	2018.2.3-2018.2.10
	12	Viren Ivor Menezes	Visiting Prof.	Indian Institute of Technology Bombay, India	2018.2.9-2018.2.18
	13	Jorge Norberto Beltramini	Visiting Prof.	The University of Queensland, Australia	2018.3.8-2018.3.31
	14	Dmitri Aleks Molodov	Visiting Prof.	RWTH Aachen University, Germany	2018.3.19-2018.3.29
FY2018	15	Gioacchino (Cino) Viggiani	Visiting Prof.	Laboratoire 3SR, CNRS, Grenoble, France	2018.6.9-2018.6.15
	16	Patrice Delmas	Visiting Prof.	The University of Auckland, NZ	2018.6.23-2018.7.22
	17	Jens Hartmann	Visiting Prof.	Universität Hamburg, Germany	2018.9.27-2018.10.10
	18	Maria Jose Cocero	Visiting Prof.	Valladolid University, Spain	2018.10.8-2018.10.21
	19	Kenneth T. Koga		Université Clermant Auvergne, OPGC, France	2018.10.27-2018.11.6
	20	Marc de Boissieu	Visiting Prof.	SIMaP, France	2018.10.27-2018.11.8
	21	Matthieu Micoulaut	Visiting Prof.	Sorbonne Université, France	2018.10.30-2018.11.4
	22	Tomonari Furukawa	Visiting Prof.	Virginia Polytechnic Institute and State University, USA	2018.10.31-2018.11.7
	23	Pavel Lejček	Visiting Prof.	Academy of Sciences of the Czech Republic, Czech Republic	2018.11.3-2018.11.16
	24	Josep-Lluis Barona-Vilar	Visiting Prof.	Universidad de Valencia, Spain	2018.11.20-2018.12.1
	25	Alexey Vinogradov		Norwegian University of Science and Technology (NUST), Norway	2018.12.2-2018.12.10, 2019.2.17-2019.2.28
	26	Ramesh Shanmughom Pillai	Visiting Prof.	University of Geneva, Switzerland	2018.12.12-2018.12.17
	27	Massimo Nespolo		Université de Lorraine, France	2018.12.17-2018.12.21
	28	Reiko Oda	Visiting Prof.	Université de Bordeaux, France	2019.1.22-2019.1.28
	29	Etsuko Fujita	Visiting Prof.	Brookhaven National Laboratory, USA	2019.1.22-2019.1.28
	30	Youn-Woo Lee		Seoul National University, Korea	2019.1.22-2019.1.27
	31	Olivier Boutin		Aix-Marseille University, France	2019.1.23-2019.1.30
	32	Martino Di Serio	Visiting Prof.	Università di Napoli Federico II, Italy	2019.1.23-2019.2.15
	33	Andrew J. Whittle		Massachusetts Institute of Technoligy,USA	2019.1.26-2019.1.30
	34	Christian Rentenberger		University of Vienna, Austria	2019.2.17-2019.2.23
	35	Dmitri Aleks Molodov	Visiting Prof.	RWTH Aachen University, Germany	2019.2.25-2019.3.8
	36	Richard Dronskowski		RWTH Aachen University, Germany	2019.3.2-2019.3.9
	37	Hamid Ghandehari	Visiting Prof.	University of Utah, USA	2019.3.12-2019.3.15
FY2019	38	Jens Hartmann	Visiting Prof.	Institute for Geology, Universität Hamburg, Germany	2019.4.4-2019.4.21
	39	Shirley (Zhiqi) SHEN	Visiting Prof.	Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia	2019.6.28-2019.7.11
	40	Rajendra Udyavara Acharya	Visiting Prof.	Ngee Ann Ploytechnic, Singapore	2019.9.1-2019.9.5
	41	Che-Hua Yang		National Taipei University of technology, Taiwan	2019.10.23-2019.10.25
	42	Daniel P. Zitterbart	Visiting Prof.	Woods Hole Oceanographic Institution, USA	2019.10.31-2019.11.26
	43	Anita Zeidler		University of Bath, UK	2019.11.2-2019.11.12
	44	Matthieu Micoulaut	Visiting Prof.	Sorbonne Université, France	2019.11.2-2019.11.13
	45	Tomonari Furukawa	Visiting Prof.	University of Virginia, USA	2019.11.2-2019.11.14
	46	Josep-Lluis Barona-Vilar	Visiting Prof.	University of Valencia, Spain	2019.11.17-2019.11.29
	47	Maria Jose Cocero	Visiting Prof.	Valladolid University, Spain	2019.11.18-2019.11.26
	48	Olivier Hamant	Visiting Prof.	ENS Lyon, France	2019.12.2-2019.12.8
	49	Patrice Delmas	Visiting Prof.	The University of Auckland, NZ	2019.12.8-2019.12.19
	50	Alfonso Gastelum Strozzi		National Autonomous University of Mexico, Mexico	2019.12.8-2019.12.20
	51	Etsuko Fujita	Visiting Prof.	Brookhaven National Laboratory, USA	2019.12.9-2019.12.15
	52	Ramesh Shanmughom Pillai	Visiting Prof.	University of Geneva, Switzerland	2019.12.16-2019.12.22
	53	Hamid Ghandehari	Visiting Prof.	University of Utah, USA	2019.12.16-2019.12.20
	54	Olivier Boutin	Visiting Prof.	Aix-Marseille University, France	2020.1.23-2020.1.30
	55	Tomoyasu Mani	Visiting Assoc. Prof.	University of Connecticut, USA	2020.2.3-2020.2.8
	56	Alexei Kuzmin	Visiting Prof.	University of Latvia, Latvia	2020.2.17-2020.2.24
	57	Wolf-Christian Pilgrim		The Philipps University of Marburg, Germany	2020.2.18-2020.2.25
	58	Parasuraman SELVAM		Indian Institute of Technology-Madras, India	2020.3.6-2020.3.15
FY2022	59	Patrice Delmas	Visiting Prof.	The University of Auckland, New Zealand	2022.6.23-2022.7.9
	60	Nicolae Barsan		University of Tubingen, Germany	2022.10.13-2022.10.19
	61	Suttichai Assabumrungrat	Visiting Prof.	Chulalongkorn University, Thailand	2022.10.24-2022.10.29
	62	Pavel Lejček	Visiting Prof.	Institute of Physics of the Czech Academy of Sciences, Czech Republic	2022.10.29-2022.11.12
	63	Josep-Lluis Barona-Vilar	Visiting Prof.	Universidad de Valencia, Spain	2022.11.24-2022.12.05
	64	Bruno Favery	Visiting Prof.	INRAE, France	2022.12.11-2022.12.17
	65	Amir Si Larbi	Visiting Prof.	ECL, University of Lyon, France	2023.1.27-2023.2.4
	66	Konstantinos Daniel Tsavdaridis	Visiting Prof.	City, University of London, UK	2023.1.28-2023.2.4
	67	Olivier Boutin	Visiting Prof.	Aix-Marseille University, France	2023.2.9-2023.2.20
	68	Shie-Ming Peng	Visiting Prof.	National Taiwan University, Taiwan	2023.2.10-2023.3.11
	69	Dario Zappa	Visiting Assoc. Prof.	The University of Brescia, Italy	2023.2.27-2023.3.7

		Name	Position	Affiliation	Term
FY2023	70	Ick Chan Kwon	Visiting Prof.	Korea Institute of Science and Technology (KIST), Korea	2023.7.26-2023.8.1
	71	Tung Thanh Tran	Visiting Assoc. Prof.	The University of Adelaide, Australia	2023.8.21-2023.9.13
	72	Martin Dienwiebel	Visiting Prof.	Karlsruhe Institute of Technology (KIT), Germany	2023.9.17-2023.9.23
	73	Suttichai Assabumrungrat	Visiting Prof.	Chulalongkorn University, Thailand	2023.10.3-2023.10.8
	74	Daniel P. Zitterbart	Visiting Assoc. Prof.	Woods Hole Oceanographic Institution, USA	2023.10.14-2023.11.2
	75	Maria Jose Cocero	Visiting Prof.	University of Valladolid, Spain	2023.10.22-2023.10.29
	76	Wen-Shing Lee	Visiting Prof.	National Taipei University of Technology, Taiwan	2023.10.25-2023.12.29
	77	Tomoyasu Mani	Visiting Assoc. Prof.	University of Connecticut, USA	2023.11.12-2023.11.19
	78	Josep-Lluis Barona-Vilar	Visiting Prof.	University of Valencia, Spain	2023.11.12-2023.11.19
	79	Marc De Boissieu		SIMaP (Science et Ingénierie des Matériaux et Procédés), Universite Grenoble Alpes, France	2023.11.22-2023.11.29
	80	Cino Viggiani	Visiting Prof.	Université Grenoble Alpes, France	2023.12.6-2023.12.10
	81	Agus P. Sasmito	Visiting Assoc. Prof.	McGill University, Canada	2023.12.8-2023.12.21
	82	Helen (Xiaoxue) Xu		University of Technology Sydney, Australia	2023.12.11-2023.12.18
	83	Konstantinos Daniel TSAVDARIDIS	Visiting Prof.	City, University of London, UK	2024.1.21-2024.1.29
	84	Amir SI LARBI	Visiting Prof.	ENISE, University of Lyon, France	2024.1.21-2024.1.29
	85	Worapon Kiatkittipong		Silpakorn University, Thailand	2024.1.30-2024.2.7
	86	Pavel Lejček	Visiting Prof.	Academy of Sciences of the Czech Republic, Czech Republic	2024.2.15-2024.2.25
	87	Dario Zappa	Visiting Assoc. Prof.	The University of Brescia, Italy	2024.2.17-2024.2.27
FY2024	88	M. Abul Hasnat	Visiting Prof.	Shahjalal University of Science and Technology (SUST), Bangladesh	2024.6.11-2024.6.15
	89	Patrice Delmas	Visiting Prof.	The University of Auckland, NZ	2024.7.7-2024.7.23
	90	Ick Chan Kwon	Visiting Prof.	Korea Institute of Science and Technology (KIST), Korea	2024.7.8-2024.7.12
	91	Suttichai Assabumrungrat	Visiting Prof.	Chulalongkorn University, Thailand	2024.10.4-2024.10.13
	92	Maria Jose COCERO	Visiting Prof.	University of Valladolid, Spain	2024.10.20-2024.10.27
	93	Tomoyasu Mani	Visiting Assoc. Prof.	University of Connecticut, USA	2024.10.22-2024.10.28
	94	Pavel Lejček	Visiting Prof.	Institute of Physics of the Czech Academy of Sciences, Czech Republic	2024.11.2-2024.11.15
	95	Josep-Lluis Barona-Vilar	Visiting Prof.	University of Valencia, Spain	2024.11.6-2024.11.10
	96	Tung Thanh Tran	Visiting Assoc. Prof.	The University of Adelaide, Australia	2024.11.13-2024.11.25
	97	Dario Zappa	Visiting Assoc. Prof.	The University of Brescia, Italy	2024.11.15-2024.11.24
	98	Reiko Oda	Visiting Prof.	University of Bordeaux, France	2024.12.14-2024.12.17
	99	Dongfang Liang	Visiting Prof.	Cambridge University, UK	2024.12.18-2024.12.27
	100	Amir SI LARBI	Visiting Prof.	ENISE, University of Lyon, France	2025.1.5-2025.1.11
	101	Konstantinos Daniel TSAVDARIDIS	Visiting Prof.	University of London, UK	2025.1.6-2025.1.15
	102	Derek Elsworth	Visiting Prof.	Pennsylvania State University, USA	2025.1.8-2025.1.11
	103	Abdul Hafeez-Baig	Prof.	University of Southern Queensland, Australia	2025.3.10-2025.3.17

		Name	Position	Affiliation	Destination	Term
2017		Shinichiro Sawa	Professor	FAST	ENS-Lyon, France	2017.10.13 - 2017.10.28
		Shinya Hosokawa	Professor	FAST	1) SIMaP, France 2) CNRS, France	2017.11.6 - 2017.11.14
		Toshifumi Mukunoki	Associate Professor	FAST	University of Larraine, France	2017.11.7 - 2017.11.20
		Tomohiko Tomita	Associate Professor	FAST	Institut Teknologi Sepuluh Nopember (ITS), Indonesia	2017.12.26 - 2017.1.7
		Toshiyuki Tosha	Project Professor	IROAST	Leidos, USA	2018.2.7 - 2018.2.17
		Donald S. Shih	Distinguished Professor	MRC	1) Northwestern University, USA 2) University of California at Berkeley, USA 3) University of California at Santa Barbara, USA 4) University of Virginia, USA 5) Georgia Tech, USA	2018.3.8 - 2018.3.23
		Kei Ishida	Assistant Professor	FAST	McGill University, Canada	2018.3.11 - 2018.3.21
		Hamid Hosano	Professor	Institute of	The University of Queensland, UK	2018.3.12 - 2018.3.21
2018		Akira Yoshiasa	Professor	FAST	AGH University, Poland	2018.7.21 - 2018.7.28
		Fuyuki Shimojo	Professor	FAST	University of Southern California, USA	2018.7.30 - 2018.8.19
		Kei Toda	Professor	FAST	Woods Hole Oceanographic Institution, USA	2018.8.25 - 2018.9.4
		Yoshitaka Nakanishi	Professor	FAST	University of Twente, Netherlands	2018.8.26 - 2018.9.2
		Shinya Hosokawa	Professor	FAST	University of Marburg, Germany	2018.8.27 - 2018.9.9
		Toshitaka Yamakawa, Makiko Kobayashi, Masayuki Tanabe	Assistant Professor, Associate Professor, Assistant Professor	POIE, FAST, FAST	Ngee Ann Polytechnique Singapore, Singapore	2018.9.5 - 2018.9.9
		Masatoshi Kuroda	Associate Professor	FAST	The University of Manchester, UK	2018.9.9 - 2018.9.16
		Akira Yoshiasa	Professor	FAST	1) RWTH Ahhen University, Germanary 2) Université de Lorraine, France	2019.1.9 - 2019.1.15
		Shinya Hayami	Professor	FAST	1) University of Manchester, UK 2) University of Leeds, UK 3) University of Bradford, UK 4) University of Nottingham, UK	2019.1.21 - 2019.1.31
2019		Toshifumi Mukunoki	Associate Professor	FAST	Institut Teknologi Sepuluh Nopember, Indonesia	2019.8.7 - 2019.8.10
		Takeshi Fukusako	Professor	FAST	Institut Teknologi Sepuluh Nopember (ITS), Indonesia	2019.8.7 - 2019.8.11
		Hamid Hosano	Professor	Institute of	Imperial College London, UK	2019.9.25 - 2019.10.4
		Shinya Hosokawa	Professor	FAST	1) University of Rostock, Germany 2) University of Marburg, Germany	2019.12.15 - 2019.12.26
		Shinya Hayami	Professor	FAST	The university of Adelaide, Australia	2020.1.27 - 2020.2.7
		Toshifumi Komatsu	Associate Professor	FAST	Vietnam National Museum of Nature, Vietnam Academy Science and Technology (VAST), Vi	2020.2.21 - 2020.2.29
2022		Hamid HOSANO	Professor	IINa	Imperial College London, UK	2022.8.15 - 2022.8.26
		Ruda LEE	Associate Professor	IINa	Korea Basic Science Institute, Korea	2022.8.17 - 2022.8.31
		Nobutatsu MOCHIZUKI	Associate Professor	FAST	1) The University of Orléans and Laboratoire Magmas et Volcans, France 2) The University of Clermont Auvergne, France	2022.9.26 - 2022.10.6
		Yoshihiro SEKINE	Associate Professor	POIE	Institut Kimia Malaysia, Malaysia	2022.11.21 - 2022.11.25
		Makiko KOBAYASHI, Masayuki TANABE	Professor, Assistant Professor	FAST	Ngee Ann Polytechnique Singapore, Singapore	2022.12.11 - 2022.12.14
		Kohei SHIMAMURA	Assistant Professor	FAST	University of Southern California, USA	2022.12.26 - 2023.1.8
		Hamid HOSANO	Professor	IINa	1) The University of Glasgow, UK 2) Imperial College London, UK	2023.2.20 - 2023.3.3
		Ruda LEE	Associate Professor	IINa	1) Korea Basic Science Institute, Korea 2) Kangwon National University, Korea	2023.2.24 - 2023.3.5
		Jonas Karl Christopher Nuevas AGUTAYA	Postdoctoral Researcher	IROAST	University of Tübingen, Germany	2023.3.4 - 2023.3.19
2023		Yoshihiro SEKINE	Associate Professor	POIE	The 12th International Symposium on Nano & Supramolecular Chemistry (ISNSC-12), Chiang Mai, Thailand	2023.7.21 - 2023.7.27
		Hamid HOSANO	Professor	IINa	Imperial College London, UK	2023.8.15 - 2023.8.28
		Ruda LEE	Associate Professor	IINa	Korea Basic Science Institute (KBSI), Korea	2023.8.18 - 2023.8.31
		Kwangsik KWAK	Assistant Professor	FAST	Karlsruhe Institute of Technology, Germany	2023.8.20 - 2023.9.18
		Kei ISHIDA	Associate Professor	CWMD	Middle East Technical University, Türkiye	2023.9.2 - 2023.9.16
		Mitsuru SASAKI	Associate Professor	IINa	1) Hall at the Hotel Sant Boi, Barcelona, Spain 2) University of Valladorid, Valladorid, Spain	2023.9.9 - 2023.9.16
		Yuta NAKASHIMA	Associate Professor	FAST	National University of Singapore, Singapore	2023.11.25 - 2023.11.28
		Yasuyuki MORITA	Professor	FAST	Zhejiang University, China	2023.12.12 - 2023.12.16
		Ruda LEE	Associate Professor	IINa	Sungkyunkwan University, Korea	2023.12.24 - 2024.1.24
		Kohei SHIMAMURA	Assistant Professor	FAST	University of Southern California, USA	2023.12.26 - 2024.1.8
		Shin-Ichi OHIRA	Professor	FAST	1) Mahidol University, Thailand 2) Universitas Islam Indonesia, Indonesi	2024.1.25 - 2024.1.31
		Reetu Rani	Postdoctoral Researcher	IROAST	1) Chulalongkorn University, Thailand 2) Suranaree University of Technology, Thailand	2024.2.18 - 2024.2.25
2024		Mohammad Atiqur RHAM	Fellow	IROAST	Lyon, France	2024.7.12 - 2024.7.23
		Lee Ruda	Associate Professor	IINa	Sungkyunkwan University (SKKU), Republic of Korea	2024.8.6 - 2024.8.16
		Kouhei Shimamura	Assistant Professor	FAST	University of Southern California, USA	2024.8.18 - 2024.8.31
		Kei Ishida	Associate Professor	CWMD	Middle East Technical University,Turkey	2024.8.27 - 2024.9.8
		Yoshihiro Sekine	Associate Professor	POIE	1）2024 Pre-ACMM, Republic of Korea 2）3rd Asian Conference on Molecular Magnetism, Republic of Korea	2024.8.29 - 2024.9.5
		Ahmad Muhammad Sohai	Specially Appointed Ass	IINa	The university of Adelaide, Australia	2024.9.23 - 2024.10.6
		Atsushi Sainoki	Associate Professor	FAST	The University of Nouakchott, Mauritania	2024.10.12 - 2024.10.24
		Lee Ruda	Associate Professor	IINa	1) Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea 2) Chonnam National University, Republic of Korea 3) Korea Research Institute of Chemical Technology (KRICT), Republic of Korea	2024.10.27-2024.11.7
		Kwangsik Kwak	Assistant Professor	FAST	Karlsruhe Institute of Technology, Germany	2024.11.17 - 2024.11.24
		Masayuki Tanabe	Assistant Professor	FAST	University of Southern Queesland, Australia	2024.12.10 - 2024.12.20
		Kouhei Shimamura	Assistant Professor	FAST	University of Southern California, USA	2024.12.25 - 2025.1.7
		Gu Shaojie	Assistant Professor	MRC	Zhejiang University, China	2025.1.13 - 2025.1.17
		Makiko Kobayashi	Professor	FAST	Anglia Ruskin University, UK	2025.2.17 - 2025.2.22

		Name	Natinality	Affiliation	Country	Duration of Visit	Host Faculty
2018	1	Michael Chan	Canada	McGill University	Canada	onsite: 2018.6.27-2018.8.22	Atsushi SAINOKI
	2	Choi Won Seok	Korea	Yonsei University	Korea	onsite: 2019.1.20-2019.2.21	Lee Aeju
	3	Woocheol Kim	Korea	Yonsei University	Korea	onsite: 2019.1.20-2019.2.21	Lee Aeju
2019	4	Andri Hardiansyah	Indonesia	Bina Nusantara University	Indonesia	onsite: 2020.1.6-2020.2.28	Tetsuya KIDA
	5	Xia Zhiguo	China	Shandong University of Science and Technology	China	onsite: 2019.9.10-2019.12.9	Atsushi SAINOKI
	6	Peng Kong	China	Shandong University of Science and Technology	China	onsite: 2019.10.16-2019.12.16	Atsushi SAINOKI
	7	Su-Bin Lee	Germany	Technical University of Hamburg	Germany	onsite: 2020.1.6-2020.2.28	Ruda Lee
	8	Ji Hoon Kim	Korea	Yonsei University	Korea	onsite: 2019.9.9-2019.9.27	Ruda Lee
	9	Listiana Oktavia	Indonesia	Indonesian Institute of Sciences (LIPI)	Indonesia	onsite: 2019.12.16-2020.1.30	Hayato ISHIKAWA
	10	Mona Pakdel	Iran	Alzahra University	Iran	onsite: 2019.10.8-2019.11.13	Hamid Hosano
	11	Yuliati Herbani	Indonesia	Indonesian Institute of Sciences	Indonesia	onsite: 2020.1.6-2020.2.21	Takuro NIIDOME
	12	Song Yeul Lee	Korea	Chonnam National University	Korea	onsite: 2020.1.14-2020.2.21	Ruda Lee
	13	Reid William Wilson	USA	University of Connecticut	USA	onsite: 2020.1.7-2020.2.26	Yutaka KUWAHARA
	14	Reetesh Tiwari	India	Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	India	onsite: 2019.12.2-2020.3.27	Syuichi TORII
	15	Farzan Zare	Australia	The University of Queensland	Australia	onsite: 2019.12.2-2020.1.31	Hamid Hosano
2020はコロ	16	Sajjan Pokhrel	Napal	The University of British Columbia	Canada	onsite: 2020.2.3-2020.3.1	Atsushi SAINOKI
2021	17	Adusumalli, Venkata Nanda Kishor Babu	India	Chonnam National University	Korea	online: 2021.9.1-2021.10.27	Ruda Lee
	18	Kang, Min Soo	Korea	Kangwon National University	Korea	online: 2021.9.1-2021.10.27	Ruda Lee
	19	Lee, Woojin	Korea	Kongju National University	Korea	online: 2021.9.1-2021.10.27	Ruda Lee
	20	HE, Yunjian	China	Zhengzhou University	China	online: 2022.1.20-2022.2.25	Cai Gaochuang
	21	LIU, Wei	China	Université de Lyon	France	online: 2022.1.20-2022.2.18	Cai Gaochuang
	22	WEN, Yue	China	Nanjing University of Science and Technology / Fukuoka Institute of Technology	China / Japan	online: 2022.1.17-2022.2.18	Cai Gaochuang
	23	ZHAO, Fuchao	China	Sichuan University / Université de Lyon	France	online: 2022.1.17-2022.2.25	Cai Gaochuang
	24	CAI, ChengGong	China	University of Science and Technology	China	online: 2022.1.31-2022.2.21	Cai Gaochuang
2022	25	HIDAYAT, Rahmat	Indonesia	Politeknik Negeri Lampung (Polytechnic of Lampung State)	Indonesia	online: 2022.11.25-2022.12.2 onsite: 2022.12.5-2023.1.25 online: 2023.1.30-2023.1.31	Shinichi OHIRA
	26	HUANG, Hsiu Chin	Taiwan	National Kaohsiung University of Science and Technology	Taiwan	online: 2022.11.29-2022.11.30 onsite: 2023.1.5-2023.1.18 online: 2023.1.26-2023.1.27	Takuro NIIDOME
	27	CHEN, Qun	China	Zhengzhou University	China	online: 2022.12.21-2023.1.20	Cai Gaochuang
	29	ZHANG, Zhe	China	Shandong University of Science and Technology	China	online: 2022.12.6-2022.12.7	Atsushi SAINOKI
	30	ZHAO, Yang	China	Shandong University of Science and Technology	China	online: 2022.12.6-2022.12.7	Atsushi SAINOKI
2023	28	TA, Hoai Thi	Vietnam	VNU University of Science, Vietnam National University, Hanoi (VNU-HUS)	Vietnam	online: 2023.7.10-2023.7.28 onsite: 2023.8.28-2023.10.20	Toshifumi MUKUNOKI
	31	ZHANG, Zhe	China	Shandong University of Science and Technology	China	online: 2023.7.24-2023.7.28 onsite: 2023.8.1-2023.10.27	Atsushi SAINOKI
	32	ZHAO, Yang	China	Shandong University of Science and Technology	China	online: 2023.7.24-2023.7.28 onsite: 2023.8.1-2023.10.27	Atsushi SAINOKI
	33	ZHANG, Feng	China	Shandong University of Science and Technology	China	online: 2023.7.24-2023.7.28 onsite: 2023.8.1-2023.10.27	Atsushi SAINOKI
	34	DENG, Xiangsheng	China	Zhengzhou University	China	online: 2023.11.15-2023.11.24 onsite: 2023.12.4-2024.1.31	Cai Gaochuang
	35	RUFF, Mina Marie	France	University of Bordeaux	France	online: 2024.1.15-2024.1.19 onsite: 2024.1.22-2024.3.18	Makoto TAKAFUJI
2024	36	NAM Yoonjoo	Korea	Sungkyunkwan university (SKKU)	Korea	online: 2024.7.1-2024.7.5 onsite: 2024.7.16-2024.7.29	Lee Ruda
	37	YUAN Dan	China	Xi'an University of Technology	China	online: 2024.6.15-2024.7.31 onsite: 2024.8.1-2024.9.6	Cai Gaochuang
	38	LI Pimao	China	Shandong University of Science and Technology	China	online: 2024.9.23-2024.9.27 onsite: 2024.10.7-2024.11.29	Atsushi SAINOKI
	39	CHARI, Sudhakar Kavya	India	Centre for Cosmology and Science Popularization (CCSP)	India	online: 2024.11.1-2024.12.28	Keitaro TAKAHASHI
	40	MUBAROK, Shofiyul Anam Al	Indonesia	Institut Teknologi Sepuluh Nopember (ITS)	Indonesia	online: 2024.11.4-2024.11.29 onsite: 2024.12.16-2025.2.7	Kei ISHIDA
	41	HIDAYAH, Rohmah	Indonesia	Institut Teknologi Sepuluh Nopember (ITS)	Indonesia	online: 2024.12.16-2024.12.20 onsite: 2025.1.6-2025.2.28	Yuta NAKASHIMA
	42	WU, Zhichun	China	Zhengzhou University	China	online: 2024.9.20-2024.9.22 onsite: 2024.11.1-2024.3.24	Cai Gaochuang
	43	BAJAJ, MOHAN	India	Indian Institute of Technology Roorkee (IIT Roorkee)	India	onsite: 2024.12.3-2025.2.3	Cai Gaochuang

	Name	Position	Affiliation	Support	Proofreading Company	Journal	Publisher	Paper
2017	Shinya HAYAMI	Professor	FAST	Publication		ACS Omega		Super Dielectric Materials of Two-Dimensional TiO2 or Ca2Nb3O10 Nanosheet Hybrids with Reduced Graphene Oxide
	Satoshi WATANABE	Assistant Professor	FAST	Proofreading	エダンズグループジャパン株式会社	Scientific Reports		Two-wavelength infrared responsive hydrogel actuators with rare-earth photothermal conversion particles
	Tetsuya KIDA	Professor	FAST	Publication		Advanced Functional Materials		Synthesis of Highly Luminescent SnO2 Nanocrystals: Analysis of their Defect-Related Photoluminescence Using Polyoxometalates as Quenchers
	Shinya HAYAMI	Professor	FAST	Publication		Scientific Reports		Mesoporous silica nanocarriers encapsulated antimalarials with high therapeutic performance
2018	Shinji KOIDE	Professor	FAST	Proofreading	カクタスコミュニケーションズ株式会社（エディテージ）	The Astrophysical Journal		Dynamic process of spontaneous energy radiation from spinning black holes through force-free magnetic field
	Mitsuyo KISHIDA	Professor	FAST	Publication		Frontiers Media SA		Brain Aromatase Modulates Serotonergic Neuron by Regulating Serotonin Levels in Zebrafish Embryos and Larvae
	Satoshi HIGUMA	Assistant Professor	FAST	Proofreading	丸善雄松堂株式会社	Catalysis Science & Technology		Ammonia Rich Combustion as well as Combustive Decomposition Properties of Various Supported Catalysts
	Tetsuya KIDA	Professor	FAST	Proofreading	エダンズグループジャパン株式会社	ACS Sustainable Chemistry & Engineering		Water vapor electrolysis with proton-conducting graphene oxide nanosheets
	Shinji KOIDE	Professor	FAST	Publication		The Astrophysical Journal		Dynamic process of spontaneous energy radiation from spinning black holes through force-free magnetic field
	Soichiro YOSHIMOTO	Associate Professor	FAST	Publication		Angewante Chemie International Edition		A Supramolecular Approach to Preparation of Nanographene Adlayers Using Water-soluble
	Shinya HAYAMI	Professor	FAST	Publication		Scientific Reports		Application of spin-crossover water soluble nanoparticles for use as MRI contrast agents
	Shinya HAYAMI	Professor	FAST	Publication		Scientific Reports		Modulating the Work Function of Graphene by Pulsed Plasma Aided Controlled Chlorination
	Satoshi HIGUMA	Assistant Professor	FAST	Publication		RSC Advances		Supported binary Cu0x-Pt catalysts with high activity and thermal stability for the combustion of NH3 as a carbon-free energy source
	Ruda LEE	Associate Professor	IROAST	Publication		International Journal of Molecular Sciences		A Promising Biocompatible Platform Lipid-based and Bio-inspired Smart Drug Delivery Systems for Cancer Therapy
2019	Ruda LEE	Associate Professor	IROAST	Publication		Marine drugs		Glycol chitosan-docosahexaenoic acid liposomes for drug delivery: synergistic effect of doxorubicin-rapamycin in drug-resistant breast cancer
	Akiko NAKAMASU	Special Appointed Assist	IROAST	Proofreading	カクタス・コミュニケーションズ株式会社	Journal of Theoretical Biology		Correspondences between parameters in a reaction-diffusion model and molecular functions of connexin on pattern formations of zebrafish stripes
	Kim Minwoo	Postdoctoral Fellow	IROAST	Publication		Frontiers in bioengineering and biotechnology		Platelet-like gold nanostars for cancer therapy: the ability to treat cancer and evade immune reactions
2020	Takahiro HOSONO	Associate Professor	FAST	Publication		Nature Communications		Stable isotopes show that earthquakes enhance permeability and release water from mountains
	Hamid HOSANO	Professor	IINa	Publication		Applied Sciences		Shock Loading of Closed Cell Aluminum Foams in the Presence of an Air Cavity
	Ruda LEE	Associate Professor	IROAST	Publication		Pharmaceutics		Development of ErbB2-targeting Liposomes for Enhancing Drug Delivery to ErbB2-positive Breast Cancer
	Ruda LEE	Associate Professor	IROAST	Publication		Journal of Controlled Release		pH-sensitive multi-drug liposomes targeting folate receptor β for efficient treatment of non-small cell lung cancer
	Shinya HOSOKAWA	Professor	FAST	Publication		Journal of the Physical Society of Japan		Detailed investigations on short- and intermediate-range structures of Ge-Se glasses near the stiffness transition composition
	Takashi ISHIDA	Assistant Professor	IROAST	Proofreading	英文校正・英文校閲エナゴ	Plant and Cell Physiology		PBL34 regulates CLE peptide-triggered growth inhibition in Arabidopsis
2021	Hiroki MATSUO	Associate Professor	IROAST	Publication		Nanomaterials		Polarization and Dielectric Properties of BiFeO3-BaTiO3 Superlattice-Structured Ferroelectric Films
	Ruda LEE	Associate Professor	IROAST	Publication		Pharmaceutics		Biomimetic Bacterial Membrane vesicles for drug delivery applications
	Takahiro HOSONO	Associate Professor	FAST	Publication		Earth, Planets and Space		Origins and pathways of deeply derived carbon and fluids observed in hot spring waters from non-active volcanic fields, western Kumamoto, Japan
	Kei TODA	Professor	FAST	Publication		ACS Earth and Space Chemistry		Biogenic diamines and their amide derivatives are present in the forest atmosphere and may play a role in particle formation
2022	Takahiro HOSONO	Associate Professor	FAST	Publication		Scientific Reports		Monsoon climate controls metal loading in global hotspot region of transboundary air pollution
	Hiroki MATSUO	Associate Professor	IROAST	Publication		Applied Physics Express		High-quality ferroelectric Bi0.5K0.5TiO3–BiFeO3 solid-solution single crystals grown under high-pressure oxygen atmosphere

	Name	Position	Affiliation	Support	Proofreading Company	Journal	Publisher	Paper
	Hiroki MATSUO	Associate Professor	IROAST	Publication		NPG Asia Materials		Utilizing ferrorestorable polarization in energy storage ceramic capacitors
	Yoshihiro SEKINE	Associate Professor	POIE	Publication		Crystal Grouth & Design		Crystal Design for Tuning the Mechanical Flexibilities of M(salophen)Complexes
	Takumi HIGAKI	Professor	FAST	Proofreading	エダンズ株式会社	Plant and Cell Physiology		Smooth elongation of pavement cells induced by RIC1 overexpression leads to marginal protrusions of cotyledon in Arabidopsis thaliana
2023	Shinichiro SAWA	Professor	FAST	Publication		Sciene Advances		Root-knot nematode modulates plant CLE3-CLV1 signaling as a long-distance signal for successful infection
	Takahiro HOSONO	Associate Professor	FAST	Publication		Ecological Indicators		Stable N and O isotopic indicators coupled with social data analysis revealed long-term shift in the cause of groundwater nitrate pollution: insights into future water resource management
	Kei TODA	Professor	FAST	Publication		Communications Biology		Abundant production of dimethylsulfoniopropionate as a cryoprotectant by freshwater phytoplanktonic dinoflagellates in ice-covered Lake Baikal
	U. Rajendra Acharya, Makiko KOBAYASHI	Distinguished Professor, Professor	IROAST, FAST	Publication		IEEE Access		Innovative Fibromyalgia Detection Approach based on Quantum-inspired 3LBP Feature Extractor using ECG Signal
	Yoshihiro SEKINE	Associate Professor	POIE	Publication		Journal of the American Chemical Society		Assembling the Smallest Prussian Blue Analogs Using a Chiral Hydrogen-Bond-Donating Unit: Complete Phase Transition Induced by Hydrogen Bonding to a Chiral Carboxylic Acid
	Mitsuru SASAKI	Associate Professor	FAST	Publication		ACS Omega		Material separation from polyester/cotton blended fabrica using hydrothermal treatnent
	AGUTAYA Jonas Karl Ch	Postdoctoral Fellow	IROAST	Publication		Journal of Materials Chemistry A		Ethanol Sensing Mechanism of ZnO Nanorods Revealed by DRIFT Spectroscopy and DFT Calculation
	Yutaka KUWAHARA	Assistant Professor	FAST	Proofreading	カクタス・コミュニケーションズ株式会社	ACS Applied Materials & Interfaces		Control on chiroptical properties by anion exchange for electro-responsive chiroptical switchable materials of nano-fibrillar molecular gels
2024	Takumi HIGAKI	Professor	FAST	Proofreading	Springer Nature	Plant Molecular Biology		Deep learning-based cytoskeleton segmentation for accurate high-throughput measurement of cytoskeleton density
	Mohammad Atiqur Rahr	Postdoctoral Fellow	IROAST	Publication		ACS Omega		Engineering Zeoliitc Imidazolate Framework Derived Mo-Doped Cobalt Phosphide for Efficient OER Catalysts
	Yoshihiro SEKINE	Associate Professor	POIE	Publication		Journal of the American Chemical Society		Assembling Smallest Prussian Blue Analogs Using Chiral Hydrogen Bond-Donating Unit toward Complete Phase Transition
	Hiroki MATSUO	Associate Professor	IROAST	Publication		Japanese Journal of Applied Physics		Bulk Photovoltaic effect in Cu-doped LiNbO3 single crystals with controlled oxidation state
	Atsushi SAINOKI	Associate Professor	FAST	Proofreading / Publication	MDPI	Sustainability		Assessment of total mercury levels emitted from ASGM into soil and groundwater in Chami town, Mauritania
	Tetsuya KIDA	Professor	FAST	Proofreading	英文校正・英文校閲エナゴ	Nanoscale		Graphene Oxide-Based Materials as Proton-Conducting Membranes for Electrochemical Applications
	Shinichiro SAWA	Professor	FAST	Publication		Frontiers in Plant Science Plant Pathogenes		CLE peptide signaling in plant-microbe interactions Authors
	Makiko KOBAYASHI	Professor	FAST	Publication		IEEE Access		~~Artificial intelligence techniques for fibromyalgia:A systematic review of date-driven approaches and clinical implications(2013-2023)~~ Fibromyalgia Detection and Diagnosis: A Systematic Review of Data-Driven Approaches and Clinical Implications
	Mitsuru SASAKI	Associate Professor	IINa	Publication		New Journal of Chemistry		Linear oligopeptide formation from alanine-diketopiperazine in acidic aqueous solutions using interfacial nano-pulsed discharge plasma
	Tetsuya KIDA	Professor	FAST	Publication		Nano Letters		Superselective Hydrogen Separation through a Mixed Conducting Graphene Oxide Membrane
	Mohammad Abul Hasna	Visiting Professor	IROAST	Publication		Catalysts	MDPI	Optimization of electrocatalytic Chlorazol Yellow degradation using PbO2 nanostructure immobilized on stainless steel substrate
	Yoshihiro SEKINE	Associate Professor	POIE	Proofreading	カクタス・コミュニケーションズ株式会社	Crystal Grouth & Design		Lanthanide-based Single-molecule Magnets Derived from Lacunary Polyoxometalates
	Shinichiro SAWA	Professor	FAST	Proofreading	Springer Nature	Nature		Stomata-derived CLE9 peptide directs mesophyll air space formation

一般財団法人新エネルギー財団	New Energy Foundation
三井金属資源開発株式会社	Mitsui Mineral Development Engineering Co., Ltd
西日本技術開発株式会社	West Japan Engineering Consultants, Inc.
伯永産業株式会社	Hakuei Sangyo Co., Ltd.
一般財団法人熊本工学会	一般財団法人熊本工学会
一般財団法人キヤノン財団	The Canon Foundation
公益財団法人住友財団	The Sumitomo Foundation
公益財団法人山田科学振興財団	Yamada Science Foundation
石炭石鉱業協会	Limestone Association of Japan
一般社団法人日本アンカー協会	Japan Anchor Association
鹿島建設株式会社技術研究所	KAJIMA CORPORATION
公益財団法人島津科学技術振興財団	Shimadzu Science Foundation
日本曹達株式会社	Nippon Soda Co., Ltd.
株式会社大林組	Obayashi Corporation
中電技術コンサルタント株式会社	Chuden Engineering Consultants
株式会社フジタ	Fujita Corporation
京セラ株式会社	KYOCERA Corporation
公益財団法人旭硝子財団	The Asahi Glass Foundation
公益財団法人大畑財団	Ohata Foundation
公益財団法人ヒロセ財団	Hirose Foundation
公益財団法人日揮・実吉奨学会	JGC-S Scholarship Foundation
国立研究開発法人科学技術振興機構	Japan Science and Technology Agency
公益財団法人村田学術振興・教育財団	Murata Science and Education Foundation
École Centrale de Lyon/ ENISE	École Centrale de Lyon/ ENISE
ピーエス・コンストラクション株式会社	PS Construction Co., Ltd.

	Authors	Article Title	Source Title	Document Type	Publication Year	Volume	Issue	Start Page	End Page	Article Number	DOI
1	Yang, HT; Wang, C; Liu, CQ; Chen, HW; Wu, YF; Han, JT; Jia, ZC; Lin, WJ; Zhang, DY; Li, WT; Yuan, W; Guo, H; Li, HF; Yang, GX; Kong, DL; Zhu, DH; Takashima, K; Ruan, LQ; Nie, JF; Li, X; Zheng, YF	Evolution of the degradation mechanism of pure zinc stent in the one-year study of rabbit abdominal aorta model	BIOMATERIALS	Article	2017	145		92	105		10.1016/j.biomaterials.2017.08.022
2	Jiang, LS; Zhang, PP; Chen, LJ; Hao, Z; Sainoki, A; Mitri, HS; Wang, QB	Numerical Approach for Goaf-Side Entry Layout and Yield Pillar Design in Fractured Ground Conditions	ROCK MECHANICS AND ROCK ENGINEERING	Article	2017	50	11	3049	3071		10.1007/s00603-017-1277-0
3	Sainoki, A; Tabata, S; Mitri, HS; Fukuda, D; Kodama, J	Time-dependent tunnel deformations in homogeneous and heterogeneous weak rock formations	COMPUTERS AND GEOTECHNICS	Article	2017	92		186	200		10.1016/j.compgeo.2017.08.008
4	Mission, EG; Quitain, AT; Sasaki, M; Kida, T	Synergizing graphene oxide with microwave irradiation for efficient cellulose depolymerization into glucose	GREEN CHEMISTRY	Article	2017	19	16	3831	3843		10.1039/c7gc01691c
5	Sainoki, A; Emad, MZ; Mitri, HS	Study on the efficiency of destress blasting in deep mine drift development	CANADIAN GEOTECHNICAL JOURNAL	Article	2017	54	4	518	528		10.1139/cgj-2016-0260
6	Yiin, CL; Quitain, AT; Yusup, S; Uemura, Y; Sasaki, M; Kida, T	Choline chloride (ChCl) and monosodium glutamate (MSG)-based green solvents from optimized cactus malic acid for biomass delignification	BIORESOURCE TECHNOLOGY	Article	2017	244		941	948		10.1016/j.biortech.2017.08.043
7	Chan, YH; Yusup, S; Quitain, AT; Uemura, Y; Loh, SK	Fractionation of pyrolysis oil via supercritical carbon dioxide extraction: Optimization study using response surface methodology (RSM)	BIOMASS & BIOENERGY	Article	2017	107		155	163		10.1016/j.biombioe.2017.10.005
8	Kuki, H; Higaki, T; Yokoyama, R; Kuroha, T; Shinohara, N; Hasezawa, S; Nishitani, K	Quantitative confocal imaging method for analyzing cellulose dynamics during cell wall regeneration in Arabidopsis mesophyll protoplasts	PLANT DIRECT	Article	2017	1	6			21	10.1002/pld3.21
9	Sainoki, A; Mitri, HS; Chinnasane, D	Characterization of Aseismic Fault-Slip in a Deep Hard Rock Mine Through Numerical Modelling: Case Study	ROCK MECHANICS AND ROCK ENGINEERING	Article	2017	50	10	2709	2729		10.1007/s00603-017-1268-1
10	Sainoki, A; Mitri, HS	Influence of mining activities on the reactivation of a footwall fault	ARABIAN JOURNAL OF GEOSCIENCES	Article	2017	10	5			99	10.1007/s12517-017-2913-4
11	Lee, A; De Mei, C; Fereira, M; Marotta, R; Yoon, HY; Kim, K; Kwon, IC; Decuzzi, P	Dexamethasone-loaded Polymeric Nanoconstructs for Monitoring and Treating Inflammatory Bowel Disease	THERANOSTICS	Article	2017	7	15	3653	3666		10.7150/thno.18183
12	Ameruoso, A; Palomba, R; Palange, AL; Cervadoro, A; Lee, A; Di Mascolo, D; Decuzzi, P	Ameliorating Amyloid-β Fibrils Triggered Inflammation via Curcumin-Loaded Polymeric Nanoconstructs	FRONTIERS IN IMMUNOLOGY	Article	2017	8				1411	10.3389/fimmu.2017.01411
13	Yamaguchi, YL; Ishida, T; Yoshimura, M; Imamura, Y; Shimaoka, C; Sawa, S	A Collection of Mutants for CLE-Peptide-Encoding Genes in Arabidopsis Generated by CRISPR/Cas9-Mediated Gene Targeting	PLANT AND CELL PHYSIOLOGY	Article	2017	58	11	1848	1856		10.1093/pcp/pcx139
14	Lee, SY; Lin, M; Lee, A; Park, YI	Lanthanide-Doped Nanoparticles for Diagnostic Sensing	NANOMATERIALS	Review	2017	7	12			411	10.3390/nano7120411
15	Gereben, O; Pusztai, L	Cluster formation and percolation in ethanol-water mixtures	CHEMICAL PHYSICS	Article	2017	496		1	8		10.1016/j.chemphys.2017.09.003
16	Yang, HT; Qu, XH; Lin, WJ; Wang, C; Zhu, DJ; Dai, KR; Zheng, YF	In vitro and in vivo studies on zinc-hydroxyapatite composites as novel biodegradable metal matrix composite for orthopedic applications	ACTA BIOMATERIALIA	Article	2018	71		200	214		10.1016/j.actbio.2018.03.007
17	Qian, PP; Song, W; Yokoo, T; Minobe, A; Wang, GD; Ishida, T; Sawa, S; Chai, JJ; Kakimoto, T	The CLE9/10 secretory peptide regulates stomatal and vascular development through distinct receptors	NATURE PLANTS	Article	2018	4	12	1071	1081		10.1038/s41477-018-0317-4
18	Ali, B; Yusup, S; Quitain, AT; Alnarabiji, MS; Kamil, RNM; Kida, T	Synthesis of novel graphene oxide/bentonite bi-functional heterogeneous catalyst for one-pot esterification and transesterification reactions	ENERGY CONVERSION AND MANAGEMENT	Article	2018	171		1801	1812		10.1016/j.enconman.2018.06.082
19	Hirano, T; Konno, H; Takeda, S; Dolan, L; Kato, M; Aoyama, T; Higaki, T; Takigawa-Imamura, H; Sato, MH	PtdIns(3,5)P2 mediates root hair shank hardening in Arabidopsis	NATURE PLANTS	Article	2018	4	11	888	+		10.1038/s41477-018-0277-8
20	Dou, LR; He, KK; Higaki, T; Wang, XF; Mao, TL	Ethylene Signaling Modulates Cortical Microtubule Reassembly in Response to Salt Stress	PLANT PHYSIOLOGY	Article	2018	176	3	2071	2081		10.1104/pp.17.01124
21	Takatsuka, H; Higaki, T; Umeda, M	Actin Reorganization Triggers Rapid Cell Elongation in Roots	PLANT PHYSIOLOGY	Article	2018	178	3	1130	1141		10.1104/pp.18.00557
22	Yiin, CL; Yusup, S; Quitain, AT; Uemura, Y; Sasaki, M; Kida, T	Thermogravimetric analysis and kinetic modeling of low-transition-temperature mixtures pretreated oil palm empty fruit bunch for possible maximum yield of pyrolysis oil	BIORESOURCE TECHNOLOGY	Article	2018	255		189	197		10.1016/j.biortech.2018.01.132
23	Hinokuma, S; Kiritoshi, S; Kawabata, Y; Araki, K; Matsuki, S; Sato, T; Machida, M	Catalytic ammonia combustion properties and operando characterization of copper oxides supported on aluminum silicates and silicon oxides	JOURNAL OF CATALYSIS	Article	2018	361		267	277		10.1016/j.jcat.2018.03.008
24	Quitain, AT; Sumigawa, Y; Mission, EG; Sasaki, M; Assabumrungrat, S; Kida, T	Graphene Oxide and Microwave Synergism for Efficient Esterification of Fatty Acids	ENERGY & FUELS	Article	2018	32	3	3599	3607		10.1021/acs.energyfuels.8b00119
25	Chan, YH; Quitain, AT; Yusup, S; Uemura, Y; Sasaki, M; Kida, T	Liquefaction of palm kernel shell in sub- and supercritical water for bio-oil production	JOURNAL OF THE ENERGY INSTITUTE	Article	2018	91	5	721	732		10.1016/j.joei.2017.05.009
26	Chan, YH; Quitain, AT; Yusup, S; Uemura, Y; Sasaki, M; Kida, T	Optimization of hydrothermal liquefaction of palm kernel shell and consideration of supercritical carbon dioxide mediation effect	JOURNAL OF SUPERCRITICAL FLUIDS	Article	2018	133		640	646		10.1016/j.supflu.2017.06.007
27	Chan, YH; Yusup, S; Quitain, AT; Chai, YH; Uemura, Y; Loh, SK	Extraction of palm kernel shell derived pyrolysis oil by supercritical carbon dioxide: Evaluation and modeling of phenol solubility	BIOMASS & BIOENERGY	Article	2018	116		106	112		10.1016/j.biombioe.2018.06.009
28	Sainoki, A; Mitri, HS	Quantitative analysis with plastic strain indicators to estimate damage induced by fault-slip	JOURNAL OF ROCK MECHANICS AND GEOTECHNICAL ENGINEERING	Article	2018	10	1	1	10		10.1016/j.jrmge.2017.06.001
29	Quitain, AT; Mission, EG; Sumigawa, Y; Sasaki, M	Supercritical carbon dioxide-mediated esterification in a microfluidic reactor	CHEMICAL ENGINEERING AND PROCESSING-PROCESS INTENSIFICATION	Article	2018	123		168	173		10.1016/j.cep.2017.11.002
30	Hinokuma, S; Wiker, G; Suganuma, T; Bansode, A; Stoian, D; Huertas, SC; Molina, S; Shafir, A; Ronning, M; van Beek, W; Urakawa, A	Versatile IR Spectroscopy Combined with Synchrotron XAS-XRD: Chemical, Electronic, and Structural Insights during Thermal Treatment of MOF Materials	EUROPEAN JOURNAL OF INORGANIC CHEMISTRY	Article	2018		17	1847	1853		10.1002/ejic.201800140
31	Hinokuma, S; Shimanoe, H; Kawabata, Y; Kiritoshi, S; Araki, K; Machida, M	Supported and unsupported manganese oxides for catalytic ammonia combustion	CATALYSIS COMMUNICATIONS	Article	2018	105		48	51		10.1016/j.catcom.2017.11.009

	Authors	Article Title	Source Title	Document Type	Publication Year	Volume	Issue	Start Page	End Page	Article Number	DOI
32	Yiin, CL; Yusup, S; Quitain, AT; Uemura, Y; Sasaki, M; Kida, T	Delignification kinetics of empty fruit bunch (EFB): a sustainable and green pretreatment approach using malic acid-based solvents	CLEAN TECHNOLOGIES AND ENVIRONMENTAL POLICY	Article	2018	20	9	1987	2000		10.1007/s10098-018-1592-5
33	Russo, V; Santacesaria, E; Tesser, R; Turco, R; Vitiello, R; Di Serio, M	Validation of the Kinetics of the Hydrogen Peroxide Propene Oxide Process in a Dynamic Continuous Stirred Tank Reactor	INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH	Article	2018	57	48	16201	16208		10.1021/acs.iecr.8b03233
34	Kiritoshi, S; Iwasa, T; Araki, K; Kawabata, Y; Taketsugu, T; Hinokuma, S; Machida, M	Supported binary CuOx-Pt catalysts with high activity and thermal stability for the combustion of NH3 as a carbon-free energy source	RSC ADVANCES	Article	2018	8	72	41491	41498		10.1039/c8ra07969b
35	Hinokuma, S; Shimanoe, H; Kawabata, Y; Matsuki, S; Kiritoshi, S; Machida, M	Effects of support materials and silver loading on catalytic ammonia combustion properties	CATALYSIS TODAY	Article; Proceedings Paper	2018	303		2	7		10.1016/j.cattod.2017.08.010
36	Akita, K; Hasezawa, S; Higaki, T	Cortical microtubules and fusicoccin response in clustered stomatal guard cells induced by sucrose solution immersion	PLANT SIGNALING & BEHAVIOR	Article	2018	13	4			e1454815	10.1080/15592324.2018.1454815
37	Tanikura, I; Shintani, R; Sainoki, A; Watanabe, S; Obara, Y	Quantitative comparison of chipping- and hydrodemolition-induced microscopic damage evolution in concrete substrates	CONSTRUCTION AND BUILDING MATERIALS	Article	2018	164		193	205		10.1016/j.conbuildmat.2017.12.220
38	Hirakawa, Y; Hasezawa, S; Higaki, T	Reactive Oxygen Species Production and Stimulated Endocytosis in Tobacco BY-2 Cells Treated with Erwinia carotovora Culture Filtrate	CYTOLOGIA	Article	2018	83	3	288	292		10.1508/cytologia.83.289
39	Jin, BR; Yang, YX; He, RY; Park, YI; Lee, A; Bai, D; Li, F; Lu, TJ; Xu, F; Lin, M	Lateral flow aptamer assay integrated smartphone-based portable device for simultaneous detection of multiple targets using upconversion nanoparticles	SENSORS AND ACTUATORS B-CHEMICAL	Article	2018	276		48	56		10.1016/j.snb.2018.08.074
40	Shi, CL; von Wangenheim, D; Herrmann, U; Wildhagen, M; Kulik, I; Kopf, A; Ishida, T; Olsson, V; Anker, MK; Alberts, M; Butenko, MA; Felix, G; Sawa, S; Claassen, M; Friml, J; Aalen, RB	The dynamics of root cap sloughing in Arabidopsis is regulated by peptide signalling	NATURE PLANTS	Article	2018	4	8	596	604		10.1038/s41477-018-0212-z
41	Scofield, S; Murison, A; Jones, A; Fozard, J; Aida, M; Band, LR; Bennett, M; Murray, JAH	Coordination of meristem and boundary functions by transcription factors in the SHOOT MERISTEMLESS regulatory network	DEVELOPMENT	Article	2018	145	9			dev157081	10.1242/dev.157081
42	Kim, MW; Kwon, SH; Choi, JH; Lee, A	A Promising Biocompatible Platform: Lipid-Based and Bio-Inspired Smart Drug Delivery Systems for Cancer Therapy	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	Review	2018	19	12			3859	10.3390/ijms19123859
43	Pothoczki, S; Pusztai, L; Bakó, I	Variations of the Hydrogen Bonding and Hydrogen-Bonded Network in Ethanol-Water Mixtures on Cooling	JOURNAL OF PHYSICAL CHEMISTRY B	Article	2018	122	26	6790	6800		10.1021/acs.jpcb.8b02493
44	Pothoczki, S; Pusztai, L; Bakó, I	Temperature dependent dynamics in water-ethanol liquid mixtures	JOURNAL OF MOLECULAR LIQUIDS	Article; Proceedings Paper	2018	271		571	579		10.1016/j.molliq.2018.09.027
45	Méndez-Bermúdez, JG; Dominguez, H; Temleitner, L; Pusztai, L	On the Structure Factors of Aqueous Mixtures of 1-Propanol and 2-Propanol: X-Ray Diffraction Experiments and Molecular Dynamics Simulations	PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS	Article	2018	255	11			1800215	10.1002/pssb.201800215
46	Lee, A; Kim, SH; Lee, H; Kim, B; Kim, YS; Key, J	Visualization of MMP-2 Activity Using Dual-Probe Nanoparticles to Detect Potential Metastatic Cancer Cells	NANOMATERIALS	Article	2018	8	2			119	10.3390/nano8020119
47	Pethes, I; Temleitner, L; Tomsic, M; Jamnik, A; Pusztai, L	X-Ray Diffraction and Computer Simulation Studies of the Structure of Liquid Aliphatic Aldehydes: From Propanal to Nonanal	PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS	Article	2018	255	11			1800127	10.1002/pssb.201800127
48	Pethes, I; Temleitner, L; Tomsic, M; Jamnik, A; Pusztai, L	Unexpected Composition Dependence of the First Sharp Diffraction Peak in an Alcohol-Aldehyde Liquid Mixture: n-Pentanol and Pentanal	PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS	Article	2018	255	11			1800130	10.1002/pssb.201800130
49	Li, GN; Yang, HT; Zheng, YF; Chen, XH; Yang, JA; Zhu, DH; Ruan, LQ; Takashima, K	Challenges in the use of zinc and its alloys as biodegradable metals: Perspective from biomechanical compatibility	ACTA BIOMATERIALIA	Review	2019	97		23	45		10.1016/j.actbio.2019.07.038
50	Hu, KL; Wu, MX; Hinokuma, S; Ohto, T; Wakisaka, M; Fujita, J; Ito, Y	Boosting electrochemical water splitting via ternary NiMoCo hybrid nanowire arrays	JOURNAL OF MATERIALS CHEMISTRY A	Article	2019	7	5	2156	2164		10.1039/c8ta11250a
51	Su, YC; Yang, HT; Gao, JL; Qin, YX; Zheng, YF; Zhu, DH	Interfacial Zinc Phosphate is the Key to Controlling Biocompatibility of Metallic Zinc Implants	ADVANCED SCIENCE	Article	2019	6	14			1900112	10.1002/advs.201900112
52	Yang, HT; Qu, XH; Lin, WJ; Chen, DF; Zhu, DH; Dai, KR; Zheng, YF	Enhanced Osseointegration of Zn-Mg Composites by Tuning the Release of Zn Ions with Sacrificial Mg-Rich Anode Design	ACS BIOMATERIALS SCIENCE & ENGINEERING	Article	2019	5	2	453	467		10.1021/acsbiomaterials.8b01137
53	Yuan, W; Li, B; Chen, DF; Zhu, DH; Han, Y; Zheng, YF	Formation Mechanism, Corrosion Behavior, and Cytocompatibility of Microarc Oxidation Coating on Absorbable High-Purity Zinc	ACS BIOMATERIALS SCIENCE & ENGINEERING	Article	2019	5	2	487	497		10.1021/acsbiomaterials.8b01131
54	Kong, P; Jiang, LS; Shu, JM; Sainoki, A; Wang, QB	Effect of Fracture Heterogeneity on Rock Mass Stability in a Highly Heterogeneous Underground Roadway	ROCK MECHANICS AND ROCK ENGINEERING	Article	2019	52	11	4547	4564		10.1007/s00603-019-01887-5
55	Nagashima, A; Higaki, T; Koeduka, T; Ishigami, K; Hosokawa, S; Watanabe, H; Matsui, K; Hasezawa, S; Touhara, K	Transcriptional regulators involved in responses to volatile organic compounds in plants	JOURNAL OF BIOLOGICAL CHEMISTRY	Article	2019	294	7	2256	2266		10.1074/jbc.RA118.005843
56	Kimata, Y; Kato, T; Higaki, T; Kurihara, D; Yamada, T; Segami, S; Morita, MT; Maeshima, M; Hasezawa, S; Higashiyama, T; Tasaka, M; Ueda, M	Polar vacuolar distribution is essential for accurate asymmetric division of Arabidopsis zygotes	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA	Article	2019	116	6	2338	2343		10.1073/pnas.1814160116
57	Kim, MW; Niidome, T; Lee, R	Glycol Chitosan-Docosahexaenoic Acid Liposomes for Drug Delivery: Synergistic Effect of Doxorubicin-Rapamycin in Drug-Resistant Breast Cancer	MARINE DRUGS	Article	2019	17	10			581	10.3390/md17100581
58	Hosokawa, S; Bérar, JF; Boudet, N; Pilgrim, WC; Pusztai, L; Hiroi, S; Maruyama, K; Kohara, S; Kato, H; Fischer, HE; Zeidler, A	Partial structure investigation of the traditional bulk metallic glass Pd40Ni40P20	PHYSICAL REVIEW B	Article	2019	100	5			54204	10.1103/PhysRevB.100.054204
59	Tsai, AYL; Higaki, T; Nguyen, CN; Perfus-Barbeoch, L; Favery, B; Sawa, S	Regulation of Root-Knot Nematode Behavior by Seed-Coat Mucilage-Derived Attractants	MOLECULAR PLANT	Article	2019	12	1	99	112		10.1016/j.molp.2018.11.008
60	Yiin, CL; Ho, S; Yusup, S; Quitain, AT; Chan, YH; Loy, ACM; Gwee, YL	Recovery of cellulose fibers from oil palm empty fruit bunch for pulp and paper using green delignification approach	BIORESOURCE TECHNOLOGY	Article	2019	290				121797	10.1016/j.biortech.2019.121797

	Authors	Article Title	Source Title	Document Type	Publication Year	Volume	Issue	Start Page	End Page	Article Number	DOI
61	Sainoki, A; Mitri, HS; Chinnasane, D; Schwartzkopff, AK	Quantitative Energy-Based Evaluation of the Intensity of Mining-Induced Seismic Activity in a Fractured Rock Mass	ROCK MECHANICS AND ROCK ENGINEERING	Article	2019	52	11	4651	4667		10.1007/s00603-019-01861-1
62	Wong, JH; Kato, T; Belteton, SA; Shimizu, R; Kinoshita, N; Higaki, T; Sakumura, Y; Szymanski, DB; Hashimoto, T	Basic Proline-Rich Protein-Mediated Microtubules Are Essential for Lobe Growth and Flattened Cell Geometry1	PLANT PHYSIOLOGY	Article	2019	181	4	1535	1551		10.1104/pp.19.00811
63	Chan, YH; Quitain, AT; Yusup, S; Uemura, Y; Sasaki, M; Kida, T	Liquefaction of palm kernel shell to bio-oil using sub- and supercritical water: An overall kinetic study	JOURNAL OF THE ENERGY INSTITUTE	Article	2019	92	3	535	541		10.1016/j.joei.2018.04.005
64	Tanaka, M; Fujii, Y; Hirano, K; Higaki, T; Nagasaki, A; Ishikawa, R; Okajima, T; Katoh, K	Fascin in lamellipodia contributes to cell elasticity by controlling the orientation of filamentous actin	GENES TO CELLS	Article	2019	24	3	202	213		10.1111/gtc.12671
65	Kodama, J; Mitsui, Y; Hara, S; Fukuda, D; Fujii, Y; Sainoki, A; Karakus, M	Time-dependence of mechanical behavior of Shikotsu welded tuff at sub-zero temperatures	COLD REGIONS SCIENCE AND TECHNOLOGY	Article	2019	168				102868	10.1016/j.coldregions.2019.102868
66	Singh, HKG; Yusup, S; Quitain, AT; Kida, T; Sasaki, M; Cheah, KW; Ameen, M	Production of gasoline range hydrocarbons from catalytic cracking of linoleic acid over various acidic zeolite catalysts	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	Article; Proceedings Paper	2019	26	33	34039	34046		10.1007/s11356-018-3223-4
67	Bakó, I; Daru, J; Pothoczki, S; Pusztai, L; Hermansson, K	Effects of H-bond asymmetry on the electronic properties of liquid water - An AIMD analysis	JOURNAL OF MOLECULAR LIQUIDS	Article	2019	293				111579	10.1016/j.molliq.2019.111579
68	Bakó, I; Mayer, I; Hamza, A; Pusztai, L	Two- and three-body, and relaxation energy terms in water clusters: Application of the hierarchical BSSE corrected decomposition scheme	JOURNAL OF MOLECULAR LIQUIDS	Article	2019	285		171	177		10.1016/j.molliq.2019.04.088
69	Hinokuma, S; Araki, K; Iwasa, T; Kiritoshi, S; Kawabata, Y; Taketsugu, T; Machida, M	Ammonia-rich combustion and ammonia combustive decomposition properties of various supported catalysts	CATALYSIS COMMUNICATIONS	Article	2019	123		64	68		10.1016/j.catcom.2019.02.005
70	Sainoki, A; Hirohama, C; Schwartzkopff, AK	Dynamic Modelling of Induced Seismicity by Using Seismic Efficiency Constraints and a New Scaling Law for Slip-Weakening Distance	PURE AND APPLIED GEOPHYSICS	Article	2020	177	2	637	659		10.1007/s00024-019-02342-w
71	Nakamasu, A; Higaki, T	Theoretical models for branch formation in plants	JOURNAL OF PLANT RESEARCH	Article	2019	132	3	325	333		10.1007/s10265-019-01107-9
72	Kumamoto, H; Imasato, Y; Yonemaru, N; Kuroyanagi, S; Takahashi, K	Constraints on ultra-low-frequency gravitational waves with statistics of pulsar spin-down rates	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	Article	2019	489	3	3547	3552		10.1093/mnras/stz2321
73	Miyoshi, S; Kimura, S; Ootsuki, R; Higaki, T; Nakamasu, A	Developmental analyses of divarications in leaves of an aquatic fern Microsorum pteropus and its varieties	PLOS ONE	Article	2019	14	1			e0210141	10.1371/journal.pone.0210141
74	Mohamed, M; Yusup, S; Quitain, AT; Kida, T	Utilization of rice husk to enhance calcium oxide-based sorbent prepared from waste cockle shells for cyclic CO2 capture in high-temperature condition	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	Article; Proceedings Paper	2019	26	33	33882	33896		10.1007/s11356-018-2549-2
75	Akita, K; Higaki, T	An Induction System for Clustered Stomata by Sugar Solution Immersion Treatment in Arabidopsis thaliana Seedlings	JOVE-JOURNAL OF VISUALIZED EXPERIMENTS	Article	2019		144			e58951	10.3791/58951
76	Talo, M; Yildirim, O; Baloglu, UB; Aydin, G; Acharya, UR	Convolutional neural networks for multi-class brain disease detection using MRI images	COMPUTERIZED MEDICAL IMAGING AND GRAPHICS	Article	2019	78				101673	10.1016/j.compmedimag.2019.101673
77	Kim, MW; Jeong, HY; Kang, SJ; Jeong, IH; Choi, MJ; You, YM; Im, CS; Song, IH; Lee, TS; Lee, JS; Lee, A; Park, YS	Anti-EGF Receptor Aptamer-Guided Co-Delivery of Anti-Cancer siRNAs and Quantum Dots for Theranostics of Triple-Negative Breast Cancer	THERANOSTICS	Article	2019	9	3	837	852		10.7150/thno.30228
78	Zhang, LS; Shi, X; Zhang, YT; Wang, JJ; Yang, JW; Ishida, T; Jiang, WQ; Han, XY; Kang, JK; Wang, XN; Pan, LX; Lv, S; Cao, B; Zhang, YH; Wu, JB; Han, HB; Hu, ZB; Cui, LJ; Sawa, S; He, JM; Wang, GD	CLE9 peptide-induced stomatal closure is mediated by abscisic acid, hydrogen peroxide, and nitric oxide in Arabidopsis thaliana	PLANT CELL AND ENVIRONMENT	Article	2019	42	3	1033	1044		10.1111/pce.13475
79	Turco, R; Ortega-Toro, R; Tesser, R; Mallardo, S; Collazo-Bigliardi, S; Boix, AC; Malinconico, M; Rippa, M; Di Serio, M; Santagata, G	Poly (Lactic Acid)/Thermoplastic Starch Films: Effect of Cardoon Seed Epoxidized Oil on Their Chemicophysical, Mechanical, and Barrier Properties	COATINGS	Article	2019	9	9			574	10.3390/coatings9090574
80	Mukundan, S; Atanda, L; Beltramini, J	Thermocatalytic cleavage of C-C and C-O bonds in model compounds and kraft lignin by NiMoS2/C nanocatalysts	SUSTAINABLE ENERGY & FUELS	Article	2019	3	5	1317	1328		10.1039/c8se00576a
81	Turco, R; Tesser, R; Cucciolito, ME; Fagnano, M; Ottaiano, L; Mallardo, S; Malinconico, M; Santagata, G; Di Serio, M	Cynara cardunculus Biomass Recovery: An Eco-Sustainable, Nonedible Resource of Vegetable Oil for the Production of Poly(lactic acid) Bioplasticizers	ACS SUSTAINABLE CHEMISTRY & ENGINEERING	Article	2019	7	4	4069	4077		10.1021/acssuschemeng.8b05519
82	Sharma, M; Singh, S; Kumar, A; Tan, RS; Acharya, UR	Automated detection of shockable and non-shockable arrhythmia using novel wavelet-based ECG features	COMPUTERS IN BIOLOGY AND MEDICINE	Article	2019	115				103446	10.1016/j.compbiomed.2019.103446
83	Esposito, S; Silvestri, B; Russo, V; Bonelli, B; Manzoli, M; Deorsola, FA; Vergara, A; Aronne, A; Di Serio, M	Self-Activating Catalyst for Glucose Hydrogenation in the Aqueous Phase under Mild Conditions	ACS CATALYSIS	Article	2019	9	4	3426	3436		10.1021/acscatal.8b04710
84	Raghavendra, U; Gudigar, A; Rao, TN; Ciaccio, EJ; Ng, EYK; Acharya, UR	Computer-aided diagnosis for the identification of breast cancer using thermogram images: A comprehensive review	INFRARED PHYSICS & TECHNOLOGY	Review	2019	102				103041	10.1016/j.infrared.2019.103041
85	Rajput, JS; Sharma, M; Acharya, UR	Hypertension Diagnosis Index for Discrimination of High-Risk Hypertension ECG Signals Using Optimal Orthogonal Wavelet Filter Bank	INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH	Article	2019	16	21			4068	10.3390/ijerph16214068
86	Pothoczki, S; Pusztai, L; Balcó, I	Molecular Dynamics Simulation Studies of the Temperature-Dependent Structure and Dynamics of Isopropanol-Water Liquid Mixtures at Low Alcohol Content	JOURNAL OF PHYSICAL CHEMISTRY B	Article	2019	123	35	7599	7610		10.1021/acs.jpcb.9b05631
87	Yamamoto, A; Ishida, T; Yoshimura, M; Kimura, Y; Sawa, S	Developing Heritable Mutations in Arabidopsis thaliana Using a Modified CRISPR/Cas9 Toolkit Comprising PAM-Altered Cas9 Variants and gRNAs	PLANT AND CELL PHYSIOLOGY	Article	2019	60	10	2255	2262		10.1093/pcp/pcz118
88	Mukundan, S; Wahab, MA; Atanda, L; Konarova, M; Beltramini, J	Highly active and robust Ni-MoS2 supported on mesoporous carbon: a nanocatalyst for hydrodeoxygenation reactions	RSC ADVANCES	Article	2019	9	30	17194	17202		10.1039/c9ra02143d
89	Wanmolee, W; Beltramini, JN; Atanda, L; Bartley, JP; Laosiripojana, N; Doherty, WOS	Effect of HCOOK/Ethanol on Fe/HUSY, Ni/HUSY, and Ni-Fe/HUSY Catalysts on Lignin Depolymerization to Benzyl Alcohols and Bioaromatics	ACS OMEGA	Article	2019	4	16	16980	16993		10.1021/acsomega.9b02413

	Authors	Article Title	Source Title	Document Type	Publication Year	Volume	Issue	Start Page	End Page	Article Number	DOI
90	Turco, R; Tesser, R; Russo, V; Vitiello, R; Fagnano, M; Di Serio, M	Comparison of Different Possible Technologies for Epoxidation of Cynara cardunculus Seed Oil	EUROPEAN JOURNAL OF LIPID SCIENCE AND TECHNOLOGY	Article	2020	122	1			1900100	10.1002/ejlt.201900100
91	Acharya, UR; Meiburger, KM; Koh, JEW; Vicnesh, J; Ciaccio, EJ; Lih, OS; Tan, SK; Aman, RRAR; Molinari, F; Ng, KH	Automated plaque classification using computed tomography angiography and Gabor transformations	ARTIFICIAL INTELLIGENCE IN MEDICINE	Article	2019	100				101724	10.1016/j.artmed.2019.101724
92	Lee, R; Choi, SJ; Moon, KC; Park, JW; Kim, K; Yoon, SY; Youn, I	Fluorogenic Probe for Detecting Active Matrix Metalloproteinase-3 (MMP-3) in Plasma and Peripheral Blood Neutrophils to Indicate the Severity of Rheumatoid Arthritis	ACS BIOMATERIALS SCIENCE & ENGINEERING	Article	2019	5	6	3039	3048		10.1021/acsbiomaterials.9b00084
93	Rashidi, M; Beltramini, JN; Martin, D	The selective cleavage of lignin aliphatic C-O linkages by solvent-assisted fast pyrolysis (SAFP)	JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY	Article	2019	94	3-4	297	307		10.1007/s10847-019-00905-x
94	Bakó, I; Pethes, I; Pothoczki, S; Pusztai, L	Temperature dependent network stability in simple alcohols and pure water: The evolution of Laplace spectra	JOURNAL OF MOLECULAR LIQUIDS	Article; Proceedings Paper	2019	273		670	675		10.1016/j.molliq.2018.11.021
95	Silva, AC; Ruiz-Ferrer, V; Martínez-Gómez, A; Barcala, M; Fenoll, C; Escobar, C	All in One High Quality Genomic DNA and Total RNA Extraction From Nematode Induced Galls for High Throughput Sequencing Purposes	FRONTIERS IN PLANT SCIENCE	Article	2019	10				657	10.3389/fpls.2019.00657
96	Noamane, MH; Ben Othmen, A; Al-Ayed, AS; Kim, Y; Hayami, S; Hamdi, A	Interaction of 2-furanylmethyl- and 2-thienylmethyl-amide derivatives of 1,3-di(carboxymethyl)calix[4]arene with metal salts	JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY	Article	2019	94	3-4	249	256		10.1007/s10847-019-00908-8
97	Ozturk, T; Talo, M; Yildirim, EA; Baloglu, UB; Yildirim, O; Acharya, UR	Automated detection of COVID-19 cases using deep neural networks with X-ray images	COMPUTERS IN BIOLOGY AND MEDICINE	Article	2020	121				103792	10.1016/j.compbiomed.2020.103792
98	Yang, HT; Jia, B; Zhang, ZC; Qu, XH; Li, GN; Lin, WJ; Zhu, DH; Dai, KR; Zheng, YF	Alloying design of biodegradable zinc as promising bone implants for load-bearing applications	NATURE COMMUNICATIONS	Article	2020	11	1			401	10.1038/s41467-019-14153-7
99	Poveda, J; Abril-Urias, P; Escobar, C	Biological Control of Plant-Parasitic Nematodes by Filamentous Fungi Inducers of Resistance: Trichoderma, Mycorrhizal and Endophytic Fungi	FRONTIERS IN MICROBIOLOGY	Review	2020	11				992	10.3389/fmicb.2020.00992
100	Murat, F; Yildirim, O; Talo, M; Baloglu, UB; Demir, Y; Acharya, UR	Application of deep learning techniques for heartbeats detection using ECG signals-analysis and review	COMPUTERS IN BIOLOGY AND MEDICINE	Review	2020	120				103726	10.1016/j.compbiomed.2020.103726
101	Celik, Y; Talo, M; Yildirim, O; Karabatak, M; Acharya, UR	Automated invasive ductal carcinoma detection based using deep transfer learning with whole-slide images	PATTERN RECOGNITION LETTERS	Article	2020	133		232	239		10.1016/j.patrec.2020.03.011
102	Trott, CM; Jordan, CH; Midgley, S; Barry, N; Greig, B; Pindor, B; Cook, JH; Sleap, G; Tingay, SJ; Ung, D; Hancock, P; Williams, A; Bowman, J; Byrne, R; Chokshi, A; Hazelton, BJ; Hasegawa, K; Jacobs, D; Joseph, RC; Li, W; Line, JLB; Lynch, C; McKinley, B; Mitchell, DA; Morales, MF; Ouchi, M; Pober, JC; Rahimi, M; Takahashi, K; Wayth, RB; Webster, RL; Wilensky, M; Wyithe, JSB; Yoshiura, S; Zhang, Z; Zheng, Q	Deep multiredshift limits on Epoch of Reionization 21 cm power spectra from four seasons of Murchison Widefield Array observations	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	Article	2020	493	4	4711	4727		10.1093/mnras/staa414
103	Rahman, ATMS; Hosono, T; Quilty, JM; Das, J; Basak, A	Multiscale groundwater level forecasting: Coupling new machine learning approaches with wavelet transforms	ADVANCES IN WATER RESOURCES	Article	2020	141				103595	10.1016/j.advwatres.2020.103595
104	Qu, XH; Yang, HT; Jia, B; Yu, ZF; Zheng, YF; Dai, KR	Biodegradable Zn-Cu alloys show antibacterial activity against MRSA bone infection by inhibiting pathogen adhesion and biofilm formation	ACTA BIOMATERIALIA	Article	2020	117		400	417		10.1016/j.actbio.2020.09.041
105	Oh, SL; Jahmunah, V; Ooi, CP; Tan, RS; Ciaccio, EJ; Yamakawa, T; Tanabe, M; Kobayashi, M; Acharya, UR	Classification of heart sound signals using a novel deep WaveNet model	COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE	Article	2020	196				105604	10.1016/j.cmpb.2020.105604
106	Ghosh, SK; Ponnalagu, RN; Tripathy, RK; Acharya, UR	Automated detection of heart valve diseases using chirplet transform and multiclass composite classifier with PCG signals	COMPUTERS IN BIOLOGY AND MEDICINE	Article	2020	118				103632	10.1016/j.compbiomed.2020.103632
107	Raghavendra, U; Acharya, UR; Adeli, H	Artificial Intelligence Techniques for Automated Diagnosis of Neurological Disorders	EUROPEAN NEUROLOGY	Review	2020	82	1-3	41	64		10.1159/000504292
108	Sharma, M; Patel, S; Acharya, UR	Automated detection of abnormal EEG signals using localized wavelet filter banks	PATTERN RECOGNITION LETTERS	Article	2020	133		188	194		10.1016/j.patrec.2020.03.009
109	Qu, XH; Yang, HT; Yu, ZF; Jia, B; Qiao, H; Zheng, YF; Dai, KR	Serum zinc levels and multiple health outcomes: Implications for zinc-based biomaterials	BIOACTIVE MATERIALS	Article	2020	5	2	410	422		10.1016/j.bioactmat.2020.03.006
110	Xu, XX; Lu, HX; Lee, RD	Near Infrared Light Triggered Photo/Immuno-Therapy Toward Cancers	FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY	Review	2020	8				488	10.3389/fbioe.2020.00488
111	Loh, HW; Ooi, CP; Vicnesh, J; Oh, SL; Faust, O; Gertych, A; Acharya, UR	Automated Detection of Sleep Stages Using Deep Learning Techniques: A Systematic Review of the Last Decade (2010-2020)	APPLIED SCIENCES-BASEL	Review	2020	10	24			8963	10.3390/app10248963
112	Yuan, W; Xia, DD; Zheng, YF; Liu, XM; Wu, SL; Li, B; Han, Y; Jia, ZJ; Zhu, DH; Ruan, LQ; Takashima, K; Liu, YS; Zhou, YS	Controllable biodegradation and enhanced osseointegration of ZrO2-nanofilm coated Zn-Li alloy: In vitro and in vivo studies	ACTA BIOMATERIALIA	Article	2020	105		290	303		10.1016/j.actbio.2020.01.022
113	Panda, R; Jain, S; Tripathy, RK; Acharya, UR	Detection of shockable ventricular cardiac arrhythmias from ECG signals using FFREWT filter-bank and deep convolutional neural network	COMPUTERS IN BIOLOGY AND MEDICINE	Article	2020	124				103939	10.1016/j.compbiomed.2020.103939
114	Hosono, T; Yamada, C; Manga, M; Wang, CY; Tanimizu, M	Stable isotopes show that earthquakes enhance permeability and release water from mountains	NATURE COMMUNICATIONS	Article	2020	11	1			2776	10.1038/s41467-020-16604-y
115	Basiri, ME; Abdar, M; Cifci, MA; Nemati, S; Acharya, UR	A novel method for sentiment classification of drug reviews using fusion of deep and machine learning techniques	KNOWLEDGE-BASED SYSTEMS	Article	2020	198				105949	10.1016/j.knosys.2020.105949
116	Kim, MW; Lee, G; Niidome, T; Komohara, Y; Lee, R; Park, YI	Platelet-Like Gold Nanostars for Cancer Therapy: The Ability to Treat Cancer and Evade Immune Reactions	FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY	Article	2020	8				133	10.3389/fbioe.2020.00133
117	Lee, SY; Lee, R; Kim, E; Lee, S; Park, YI	Near-Infrared Light-Triggered Photodynamic Therapy and Apoptosis Using Upconversion Nanoparticles With Dual Photosensitizers	FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY	Article	2020	8				275	10.3389/fbioe.2020.00275

	Authors	Article Title	Source Title	Document Type	Publication Year	Volume	Issue	Start Page	End Page	Article Number	DOI
118	Kok, C; Jahmunah, V; Oh, SL; Zhou, XJ; Gururajan, R; Tao, XH; Cheong, KH; Gururajan, R; Molinari, F; Acharya, UR	Automated prediction of sepsis using temporal convolutional network	COMPUTERS IN BIOLOGY AND MEDICINE	Article	2020	127				103957	10.1016/j.compbiomed.2020.103957
119	Favero, DS; Kawamura, A; Shibata, M; Takebayashi, A; Jung, JH; Suzuki, T; Jaeger, KE; Ishida, T; Iwase, A; Wigge, PA; Neff, MM; Sugimoto, K	AT-Hook Transcription Factors Restrict Petiole Growth by Antagonizing PIFs	CURRENT BIOLOGY	Article	2020	30	8	1454	+		10.1016/j.cub.2020.02.017
120	Kuzmin, A; Timoshenko, J; Kalinko, A; Jonane, I; Anspoks, A	Treatment of disorder effects in X-ray absorption spectra beyond the conventional approach	RADIATION PHYSICS AND CHEMISTRY	Article; Proceedings Paper	2020	175				108112	10.1016/j.radphyschem.2018.12.032
121	Sridhar, C; Lih, OS; Jahmunah, V; Koh, JEW; Ciaccio, EJ; San, TR; Arunkumar, N; Kadry, S; Acharya, UR	Accurate detection of myocardial infarction using non linear features with ECG signals	JOURNAL OF AMBIENT INTELLIGENCE AND HUMANIZED COMPUTING	Article	2021	12	3	3227	3244		10.1007/s12652-020-02536-4
122	Singh, HKG; Yusup, S; Quitain, AT; Abdullah, B; Ameen, M; Sasaki, M; Kida, T; Cheah, KW	Biogasoline production from linoleic acid via catalytic cracking over nickel and copper-doped ZSM-5 catalysts	ENVIRONMENTAL RESEARCH	Article	2020	186				109616	10.1016/j.envres.2020.109616
123	Lu, YJ; Li, P; Shimono, M; Corrion, A; Higaki, T; He, SY; Day, B	Arabidopsis calcium-dependent protein kinase 3 regulates actin cytoskeleton organization and immunity	NATURE COMMUNICATIONS	Article	2020	11	1			6234	10.1038/s41467-020-20007-4
124	Pethes, I; Bakó, I; Pusztai, L	Chloride ions as integral parts of hydrogen bonded networks in aqueous salt solutions: the appearance of solvent separated anion pairs	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	Article	2020	22	19	11038	11044		10.1039/d0cp01806f
125	Tripathy, RK; Gajbhiye, P; Acharya, UR	Automated sleep apnea detection from cardio-pulmonary signal using bivariate fast and adaptive EMD coupled with cross time-frequency analysis	COMPUTERS IN BIOLOGY AND MEDICINE	Article	2020	120				103769	10.1016/j.compbiomed.2020.103769
126	Soh, DCK; Ng, EYK; Jahmunah, V; Oh, SL; Tan, RS; Acharya, UR	Automated diagnostic tool for hypertension using convolutional neural network	COMPUTERS IN BIOLOGY AND MEDICINE	Article	2020	126				103999	10.1016/j.compbiomed.2020.103999
127	Pethes, I; Pusztai, L; Ohara, K; Kohara, S; Darpentigny, J; Temleitner, L	Temperature-dependent structure of methanol-water mixtures on cooling: X-ray and neutron diffraction and molecular dynamics simulations	JOURNAL OF MOLECULAR LIQUIDS	Article	2020	314				113664	10.1016/j.molliq.2020.113664
128	Ishida, K; Tsujimoto, G; Ercan, A; Tu, TB; Kiyama, M; Amagasaki, M	Hourly-scale coastal sea level modeling in a changing climate using long short-term memory neural network	SCIENCE OF THE TOTAL ENVIRONMENT	Article	2020	720				137613	10.1016/j.scitotenv.2020.137613
129	Stoean, C; Stoean, R; Atencia, M; Abdar, M; Velá zquez-Pérez, L; Khosravi, A; Nahavandi, S; Acharya, UR; Joya, G	Automated Detection of Presymptomatic Conditions in Spinocerebellar Ataxia Type 2 Using Monte Carlo Dropout and Deep Neural Network Techniques with Electrooculogram Signals	SENSORS	Article	2020	20	11			3032	10.3390/s20113032
130	Higaki, T; Akita, K; Katoh, K	Coefficient of variation as an image-intensity metric for cytoskeleton bundling	SCIENTIFIC REPORTS	Article	2020	10	1			22187	10.1038/s41598-020-79136-x
131	Yoshiura, S; Oguri, M; Takahashi, K; Takahashi, T	Constraints on primordial power spectrum from galaxy luminosity functions	PHYSICAL REVIEW D	Article	2020	102	8			83515	10.1103/PhysRevD.102.083515
132	Nugraha, WC; Nagai, H; Ohira, SI; Toda, K	Semi-continuous Monitoring of Cr(VI) and Cr(III) during a Soil Extraction Process by Means of an Ion Transfer Device and Graphite Furnace Atomic Absorption Spectroscopy	ANALYTICAL SCIENCES	Article	2020	36	5	617	620		10.2116/analsci.19SBN02
133	Rahman, ATMS; Hosono, T; Kisi, O; Dennis, B; Imon, AHMR	A minimalistic approach for evapotranspiration estimation using the Prophet model	HYDROLOGICAL SCIENCES JOURNAL	Article	2020	65	12	1994	2006		10.1080/02626667.2020.1787416
134	Maeda, K; Sasabe, M; Hanamata, S; Machida, Y; Hasezawa, S; Higaki, T	Actin Filament Disruption Alters Phragmoplast Microtubule Dynamics during the Initial Phase of Plant Cytokinesis	PLANT AND CELL PHYSIOLOGY	Article	2020	61	3	445	456		10.1093/pcp/pcaa003
135	Yoshiura, S; Takahashi, K; Takahashi, T	Probing small scale primordial power spectrum with 21cm line global signal	PHYSICAL REVIEW D	Article	2020	101	8			83520	10.1103/PhysRevD.101.083520
136	Yoshida, Y; Arita, T; Otani, J; Sawa, S	Visualization of Toyoura sand-grown plant roots by X-ray computer tomography	PLANT BIOTECHNOLOGY	Article	2020	37	4	481	484		10.5511/plantbiotechnology.20.0819a
137	Nishi, M; Tanaka, S; Vesenjak, M; Ren, ZR; Hokamoto, K	Experimental and computational analysis of the uni-directional porous (UniPore) copper mechanical response at high-velocity impact	INTERNATIONAL JOURNAL OF IMPACT ENGINEERING	Article	2020	136				103409	10.1016/j.ijimpeng.2019.103409
138	Aida, M; Tsubakimoto, Y; Shimizu, S; Ogisu, H; Kamiya, M; Iwamoto, R; Takeda, S; Karim, MR; Mizutani, M; Lenhard, M; Tasaka, M	Establishment of the Embryonic Shoot Meristem Involves Activation of Two Classes of Genes with Opposing Functions for Meristem Activities	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	Article	2020	21	16			5864	10.3390/ijms21165864
139	Zhang, Z; Pober, JC; Li, WY; Hazelton, BJ; Morales, MF; Trott, CM; Jordan, CH; Joseph, RC; Beardsley, A; Barry, N; Byrne, R; Tingay, SJ; Chokshi, A; Hasegawa, K; Jacobs, DC; Lanman, A; Line, JLB; Lynch, C; McKinley, B; Mitchell, DA; Murray, S; Pindor, B; Rahimi, M; Takahashi, K; Wayth, RB; Webster, RL; Wilensky, M; Yoshiura, S; Zheng, Q	The impact of tandem redundant/sky-based calibration in MWA Phase II data analysis	PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF AUSTRALIA	Article	2020	37				e045	10.1017/pasa.2020.37
140	Sainoki, A; Maina, D; Schwartzkopff, AK; Obara, Y; Karakus, M	Impact of the intermediate stress component in a plastic potential function on rock mass stability around a sequentially excavated large underground cavity	INTERNATIONAL JOURNAL OF ROCK MECHANICS AND MINING SCIENCES	Article	2020	127				104223	10.1016/j.ijrmms.2020.104223
141	Yoshimi, Y; Hara, K; Yoshimura, M; Tanaka, N; Higaki, T; Tsumuraya, Y; Kotake, T	Expression of a fungal exo-β-1,3-galactanase in Arabidopsis reveals a role of type II arabinogalactans in the regulation of cell shape	JOURNAL OF EXPERIMENTAL BOTANY	Article	2020	71	18	5414	5424		10.1093/jxb/eraa236
142	Wakabayashi, M; Okuno, HG; Kumon, M	Drone audition listening from the sky estimates multiple sound source positions by integrating sound source localization and data association	ADVANCED ROBOTICS	Article	2020	34	11	744	755		10.1080/01691864.2020.1757506
143	Pham, TH; Raghavendra, U; Koh, JEW; Gudigar, A; Chan, WY; Hamid, MTR; Rahmat, K; Fadzli, F; Ng, KH; Ooi, CP; Ciaccio, EJ; Fujita, H; Acharya, UR	Development of breast papillary index for differentiation of benign and malignant lesions using ultrasound images	JOURNAL OF AMBIENT INTELLIGENCE AND HUMANIZED COMPUTING	Article	2021	12	2	2121	2129		10.1007/s12652-020-02310-6
144	Cerbantez-Bueno, VE; Zúñiga-Mayo, VM; Reyes-Olalde, JI; Lozano-Sotomayor, P; Herrera-Ubaldo, H; Marsch-Martinez, N; de Folter, S	Redundant and Non-redundant Functions of the AHK Cytokinin Receptors During Gynoecium Development	FRONTIERS IN PLANT SCIENCE	Article	2020	11				568277	10.3389/fpls.2020.568277
145	Hirai, R; Higaki, T; Takenaka, Y; Sakamoto, Y; Hasegawa, J; Matsunaga, S; Demura, T; Ohtani, M	The Progression of Xylem Vessel Cell Differentiation is Dependent on the Activity Level of VND7 in Arabidopsis thaliana	PLANTS-BASEL	Article	2020	9	1			39	10.3390/plants9010039

	Authors	Article Title	Source Title	Document Type	Publication Year	Volume	Issue	Start Page	End Page	Article Number	DOI
146	Harada, A; Tsutsuki, H; Zhang, TL; Lee, R; Yahiro, K; Sawa, T; Niidome, T	Preparation of Biodegradable PLGA-Nanoparticles Used for pH-Sensitive Intracellular Delivery of an Anti-inflammatory Bacterial Toxin to Macrophages	CHEMICAL & PHARMACEUTICAL BULLETIN	Article	2020	68	4	363	368		10.1248/cpb.c19-00917
147	Kwon, SH; Wi, T; Park, YI; Kim, MW; Lee, G; Higaki, T; Choi, JH; Lee, R	Noninvasive Early Detection of Calpain 2-Enriched Non-Small Cell Lung Cancer Using a Human Serum Albumin-Bounded Calpain 2 Nanosensor	BIOCONJUGATE CHEMISTRY	Article	2020	31	3	803	812		10.1021/acs.bioconjchem.9b00870
148	Shiohira, Y; Terada, Y; Mukuno, D; Fujii, Y; Takahashi, K	Microlensed radio emission from exoplanets	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	Article	2020	495	2	1934	1942		10.1093/mnras/staa1294
149	Hosono, T; Hossain, S; Shimada, J	Hydrobiogeochemical evolution along the regional groundwater flow systems in volcanic aquifers in Kumamoto, Japan	ENVIRONMENTAL EARTH SCIENCES	Article	2020	79	18			410	10.1007/s12665-020-09155-4
150	Kubota, K; Inoue, AK; Hasegawa, K; Takahashi, K	Detectability of 21-cm signal during the epoch of reionization with 21-cm-Lyman-α emitter cross-correlation - III. Model dependence	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	Article	2020	494	3	3131	3140		10.1093/mnras/staa979
151	Schwartzkopff, AK; Melkoumian, NS; Xu, CS	Breakdown Pressure and Propagation Surface of a Hydraulically Pressurized Circular Notch Within a Rock Material	ROCK MECHANICS AND ROCK ENGINEERING	Article	2021	54	1	191	218		10.1007/s00603-020-02264-3
152	Schwartzkopff, AK; Sainoki, A; Elsworth, D	Numerical Simulation of An In-situ Fluid Injection Experiment into a Fault Using Coupled X-FEM Analysis	ROCK MECHANICS AND ROCK ENGINEERING	Article	2021	54	3	1027	1053		10.1007/s00603-020-02301-1
153	Ohira, SI; Sakaki, T; Miyachi, R; Otsubo, A; Umemoto, A; Kuwahara, Y; Toda, K	Miniaturized crossflow ion transfer device for post-column enrichment in ion chromatography	TALANTA	Article	2020	216				120989	10.1016/j.talanta.2020.120989
154	Higaki, T; Mizuno, H	Four-dimensional imaging with virtual reality to quantitatively explore jigsaw puzzle-like morphogenesis of Arabidopsis cotyledon pavement cells	PLANT BIOTECHNOLOGY	Article	2020	37	4	429	435		10.5511/plantbiotechnology.20.0605a
155	Higaki, T; Akita, K; Hasezawa, S	Elevated CO2 promotes satellite stomata production in young cotyledons of Arabidopsis thaliana	GENES TO CELLS	Article	2020	25	7	475	482		10.1111/gtc.12773
156	Kumamoto, S; Nakatake, K; Fukuyama, S; Yasuda, K; Kitamura, Y; Iwatsuki, M; Baba, H; Ihara, T; Nakanishi, Y; Nakashima, Y	A dynamically deformable microfilter for selective separation of specific substances in microfluidics	BIOMICROFLUIDICS	Article	2020	14	6			64113	10.1063/5.0025927
157	Thorat, M; Sahu, S; Menezes, V; Gokhale, A; Hosano, H	Shock Loading of Closed Cell Aluminum Foams in the Presence of an Air Cavity	APPLIED SCIENCES-BASEL	Article	2020	10	12			4128	10.3390/app10124128
158	Vesenjak, M; Nakashima, Y; Hokamoto, K; Ren, Z; Marumo, Y	Development of Unidirectional Cellular Structure with Multiple Pipe Layers and Characterisation of Its Mechanical Properties	MATERIALS	Article	2020	13	17			3880	10.3390/ma13173880
159	Ueno, S; Kim, MW; Lee, G; Park, YI; Niidome, T; Lee, R	Development of ErbB2-Targeting Liposomes for Enhancing Drug Delivery to ErbB2-Positive Breast Cancer	PHARMACEUTICS	Article	2020	12	6			585	10.3390/pharmaceutics12060585
160	Eguchi, H; Suzuki, M; Miyashita, Y; Ideguchi, S; Takahashi, K	Faraday Dispersion Function of Disk Galaxies with Axisymmetric Global Magnetic Fields. I.	ASTROPHYSICAL JOURNAL	Article	2020	899	2			122	10.3847/1538-4357/ab9f9e
161	Sono, T; Tanikura, I; Sainoki, A; Schwartzkopff, AK; Obara, Y	Optimization of chipping parameters to mitigate the damage in a concrete substrate using a discontinuum modelling approach	CONSTRUCTION AND BUILDING MATERIALS	Article	2020	258				119658	10.1016/j.conbuildmat.2020.119658
162	Bowmaker, GA; Kim, Y; Skelton, BW; Sobolev, AN; White, AH	Structures of 1:1 Mononuclear Adducts of Zinc(II) Halides, ZnX2 (X=Cl, Br, I) and of New Hydrates of 1:1 Adducts of Zinc(II) Nitrate and Sulfate with Aromatic N,N′ ′ -Bidentate Base Derivatives of Pyridine (bpy, phen)	AUSTRALIAN JOURNAL OF CHEMISTRY	Article	2020	73	5-6	511	519		10.1071/CH19365
163	Nishi, M; Tanaka, S; Vesenjak, M; Ren, Z; Hokamoto, K	Fabrication of Composite Unidirectional Cellular Metals by Using Explosive Compaction	METALS	Article	2020	10	2			193	10.3390/met10020193
164	Vesenjak, M; Nishi, M; Nishi, T; Marumo, Y; Krstulovic-Opara, L; Ren, Z; Hokamoto, K	Fabrication and Mechanical Properties of Rolled Aluminium Unidirectional Cellular Structure	METALS	Article	2020	10	6			770	10.3390/met10060770
165	Yonemaru, N; Takahashi, K; Kumamoto, H; Dai, S; Yoshiura, S; Ideguchi, S	Artificial neural networks for selection of pulsar candidates from radio continuum surveys	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	Article	2020	494	1	1035	1044		10.1093/mnras/staa742
166	Lih, OS; Jahmunah, V; San, TR; Ciaccio, EJ; Yamakawa, T; Tanabe, M; Kobayashi, M; Faust, O; Acharya, UR	Comprehensive electrocardiographic diagnosis based on deep learning	ARTIFICIAL INTELLIGENCE IN MEDICINE	Article	2020	103				101789	10.1016/j.artmed.2019.101789
167	Sherkatghanad, Z; Akhondzadeh, M; Salari, S; Zomorodi-Moghadam, M; Abdar, M; Acharya, UR; Khosrowabadi, R; Solari, V	Automated Detection of Autism Spectrum Disorder Using a Convolutional Neural Network	FRONTIERS IN NEUROSCIENCE	Article	2020	13				1325	10.3389/fnins.2019.01325
168	Plawiak, P; Abdar, M; Plawiak, J; Makarenkov, V; Acharya, UR	DGHNL: A new deep genetic hierarchical network of learners for prediction of credit scoring	INFORMATION SCIENCES	Article	2020	516		401	418		10.1016/j.ins.2019.12.045
169	Wyn, HK; Konarova, M; Beltramini, J; Perkins, G; Yermán, L	Self-sustaining smouldering combustion of waste: A review on applications, key parameters and potential resource recovery	FUEL PROCESSING TECHNOLOGY	Review	2020	205				106425	10.1016/j.fuproc.2020.106425
170	Lee, R; Choi, YJ; Jeong, MS; Park, YI; Motoyama, K; Kim, MW; Kwon, SH; Choi, JH	Hyaluronic Acid-Decorated Glycol Chitosan Nanoparticles for pH-Sensitive Controlled Release of Doxorubicin and Celecoxib in Nonsmall Cell Lung Cancer	BIOCONJUGATE CHEMISTRY	Article	2020	31	3	923	932		10.1021/acs.bioconjchem.0c00048
171	Pham, TH; Vicnesh, J; Wei, JKE; Oh, SL; Arunkumar, N; Abdulhay, EW; Ciaccio, EJ; Acharya, UR	Autism Spectrum Disorder Diagnostic System Using HOS Bispectrum with EEG Signals	INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH	Article	2020	17	3			971	10.3390/ijerph17030971
172	Deshan, ADK; Atanda, L; Moghaddam, L; Rackemann, DW; Beltramini, J; Doherty, WOS	Heterogeneous Catalytic Conversion of Sugars Into 2,5-Furandicarboxylic Acid	FRONTIERS IN CHEMISTRY	Review	2020	8				659	10.3389/fchem.2020.00659
173	Butun, E; Yildirim, O; Talo, M; Tan, RS; Acharya, UR	1D-CADCapsNet: One dimensional deep capsule networks for coronary artery disease detection using ECG signals	PHYSICA MEDICA-EUROPEAN JOURNAL OF MEDICAL PHYSICS	Article	2020	70		39	48		10.1016/j.ejmp.2020.01.007
174	Olmo, R; Cabrera, J; Díaz-Manzano, FE; Ruiz-Ferrer, V; Barcala, M; Ishida, T; García, A; Andrés, MF; Ruiz-Lara, S; Verdugo, I; Pernas, M; Fukaki, H; del Pozo, JC; Moreno-Risueno, MA; Kyndt, T; Gheysen, G; Fenoll, C; Sawa, S; Escobar, C	Root-knot nematodes induce gall formation by recruiting developmental pathways of post-embryonic organogenesis and regeneration to promote transient pluripotency	NEW PHYTOLOGIST	Article	2020	227	1	200	215		10.1111/nph.16521
175	Dhok, S; Pimpalkhute, V; Chandurkar, A; Bhurane, AA; Sharma, M; Acharya, UR	Automated phase classification in cyclic alternating patterns in sleep stages using Wigner-Ville Distribution based features	COMPUTERS IN BIOLOGY AND MEDICINE	Article	2020	119				103691	10.1016/j.compbiomed.2020.103691

	Authors	Article Title	Source Title	Document Type	Publication Year	Volume	Issue	Start Page	End Page	Article Number	DOI
176	Soh, DCK; Ng, EYK; Jahmunah, ; Oh, SL; San, TR; Acharya, UR	A computational intelligence tool for the detection of hypertension using empirical mode decomposition	COMPUTERS IN BIOLOGY AND MEDICINE	Article	2020	118				103630	10.1016/j.compbiomed.2020.103630
177	Russo, V; Rossano, C; Salucci, E; Tesser, R; Salmi, T; Di Serio, M	Intraparticle diffusion model to determine the intrinsic kinetics of ethyl levulinate synthesis promoted by Amberlyst-15	CHEMICAL ENGINEERING SCIENCE	Article	2020	228				115974	10.1016/j.ces.2020.115974
178	Cerar, J; Jamnik, A; Pethes, I; Temleitner, L; Pusztai, L; Tomsic, M	Structural, rheological and dynamic aspects of hydrogen-bonding molecular liquids: Aqueous solutions of hydrotropic tert-butyl alcohol	JOURNAL OF COLLOID AND INTERFACE SCIENCE	Article	2020	560		730	742		10.1016/j.jcis.2019.10.094
179	Sharma, A; Garg, N; Patidar, S; Tan, RS; Acharya, UR	Automated pre-screening of arrhythmia using hybrid combination of Fourier-Bessel expansion and LSTM	COMPUTERS IN BIOLOGY AND MEDICINE	Article	2020	120				103753	10.1016/j.compbiomed.2020.103753
180	Gudigar, A; Raghavendra, U; Hegde, A; Kalyani, M; Ciaccio, EJ; Acharya, UR	Brain pathology identification using computer aided diagnostic tool: A systematic review	COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE	Review	2020	187				105205	10.1016/j.cmpb.2019.105205
181	Koh, JEW; Jahmunah, V; Pham, TH; Oh, SL; Ciaccio, EJ; Acharya, UR; Yeong, CH; Fabell, MKM; Rahmat, K; Vijayananthan, A; Ramli, N	Automated detection of Alzheimer?s disease using bi-directional empirical model decomposition	PATTERN RECOGNITION LETTERS	Article	2020	135		106	113		10.1016/j.patrec.2020.03.014
182	Hamidi, S; Nakaya, Y; Nagai, H; Alev, C; Kasukawa, T; Chhabra, S; Lee, R; Niwa, H; Warmflash, A; Shibata, T; Sheng, GJ	Mesenchymal-epithelial transition regulates initiation of pluripotency exit before gastrulation	DEVELOPMENT	Article	2020	147	3			dev184960	10.1242/dev.184960
183	Tesser, R; Russo, V; Turco, R; Vitiello, R; Di Serio, M	Bio-lubricants synthesis from the epoxidized oil promoted by clays: Kinetic modelling	CHEMICAL ENGINEERING SCIENCE	Article	2020	214				115445	10.1016/j.ces.2019.115445
184	Turco, R; Boneni, B; Armandi, M; Spiridigliozzi, L; Dell'Agli, G; Deorsola, FA; Esposito, S; Di Serio, M	Active and stable ceria-zirconia supported molybdenum oxide catalysts for cyclooctene epoxidation: Effect of the preparation procedure	CATALYSIS TODAY	Article; Proceedings Paper	2020	345		201	212		10.1016/j.cattod.2019.10.036
185	Mukundan, S; Boffito, D; Shrotri, A; Atanda, L; Beltramini, J; Patience, G	Thermocatalytic Hydrodeoxygenation and Depolymerization of Waste Lignin to Oxygenates and Biofuels in a Continuous Flow Reactor at Atmospheric Pressure	ACS SUSTAINABLE CHEMISTRY & ENGINEERING	Article	2020	8	35	13195	13205		10.1021/acssuschemeng.0c02102
186	Mukundan, S; Beltramini, J; Kumar, KG; Ravindran, DS	Surface engineering of carbon supported CoMoS- an effective nanocatalyst for selective deoxygenation of lignin derived phenolics to arenes	APPLIED CATALYSIS A-GENERAL	Article	2020	606				117811	10.1016/j.apcata.2020.117811
187	Nakagami, S; Saeki, K; Toda, K; Ishida, T; Sawa, S	The atypical E2F transcription factor DEL1 modulates growth-defense tradeoffs of host plants during root-knot nematode infection	SCIENTIFIC REPORTS	Article	2020	10	1			8836	10.1038/s41598-020-65733-3
188	Mugasa, H; Dua, S; Koh, JEW; Hagiwara, Y; Lih, OS; Madla, C; Kongmebhol, P; Ng, KH; Acharya, UR	An adaptive feature extraction model for classification of thyroid lesions in ultrasound images	PATTERN RECOGNITION LETTERS	Article	2020	131		463	473		10.1016/j.patrec.2020.02.009
189	Mukundan, S; Chowdari, RK; Beltramini, J	External Solvent-Free Catalytic Hydrodeoxygenation of Softwood Lignin to Aromatics over Carbon-ZrO2 Supported Ni/MoS2 Catalysts	ADVANCED SUSTAINABLE SYSTEMS	Article	2021	5	3			2000243	10.1002/adsu.202000243
190	Ishida, T; Suzuki, R; Nakagami, S; Kuroha, T; Sakamoto, S; Nakata, MT; Yokoyama, R; Kimura, S; Mitsuda, N; Nishitani, K; Sawa, S	Root-knot nematodes modulate cell walls during root-knot formation in Arabidopsis roots	JOURNAL OF PLANT RESEARCH	Article	2020	133	3	419	428		10.1007/s10265-020-01186-z
191	Koh, JEW; Raghavendra, U; Gudigar, A; Ping, OC; Molinari, F; Mishra, S; Mathavan, S; Raman, R; Acharya, UR	A novel hybrid approach for automated detection of retinal detachment using ultrasound images	COMPUTERS IN BIOLOGY AND MEDICINE	Article	2020	120				103704	10.1016/j.compbiomed.2020.103704
192	Ben Othman, A; Mellah, B; Abidi, R; Kim, JS; Kim, Y; Vicens, J	Complexing properties of pyrenyl-appended calix[4]arenes towards lanthanides and transition metal cations	JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY	Article	2020	97	3-4	187	194		10.1007/s10847-020-00993-0
193	Vicnesh, J; Oh, SL; Wei, JKE; Ciaccio, EJ; Chua, KC; Tong, L; Acharya, UR	Thoughts concerning the application of thermogram images for automated diagnosis of dry eye - A review	INFRARED PHYSICS & TECHNOLOGY	Review	2020	106				103271	10.1016/j.infrared.2020.103271
194	Acharya, UR; Meiburger, KM; Koh, JEW; Ciaccio, EJ; Vicnesh, J; Tan, SK; Wong, JHD; Aman, RRAR; Ng, KH	Automated detection of calcified plaque using higher-order spectra cumulant technique in computer tomography angiography images	INTERNATIONAL JOURNAL OF IMAGING SYSTEMS AND TECHNOLOGY	Article	2020	30	2	285	297		10.1002/ima.22369
195	Basiri, ME; Nemati, S; Abdar, M; Asadi, S; Acharrya, UR	A novel fusion-based deep learning model for sentiment analysis of COVID-19 tweets	KNOWLEDGE-BASED SYSTEMS	Article	2021	228				107242	10.1016/j.knosys.2021.107242
196	Qu, XH; Yang, HT; Jia, B; Wang, MQ; Yue, B; Zheng, YF; Dai, KR	Zinc alloy-based bone internal fixation screw with antibacterial and anti-osteolytic properties	BIOACTIVE MATERIALS	Article	2021	6	12	4607	4624		10.1016/j.bioactmat.2021.05.023
197	Maheshwari, D; Ghosh, SK; Tripathy, RK; Sharma, M; Acharya, UR	Automated accurate emotion recognition system using rhythm-specific deep convolutional neural network technique with multi-channel EEG signals	COMPUTERS IN BIOLOGY AND MEDICINE	Article	2021	134				104428	10.1016/j.compbiomed.2021.104428
198	Jahmunah, V; Ng, EYK; San, TR; Acharya, UR	Automated detection of coronary artery disease, myocardial infarction and congestive heart failure using GaborCNN model with ECG signals	COMPUTERS IN BIOLOGY AND MEDICINE	Article	2021	134				104457	10.1016/j.compbiomed.2021.104457
199	Loh, HW; Ooi, CP; Palmer, E; Barua, PD; Dogan, S; Tuncer, T; Baygin, M; Acharya, UR	GaborPDNet: Gabor Transformation and Deep Neural Network for Parkinson's Disease Detection Using EEG Signals	ELECTRONICS	Article	2021	10	14			1740	10.3390/electronics10141740
200	Park, YI; Kwon, SH; Lee, G; Motoyama, K; Kim, MW; Lin, M; Niidome, T; Choi, JH; Lee, R	pH-sensitive multi-drug liposomes targeting folate receptor β for efficient treatment of non-small cell lung cancer	JOURNAL OF CONTROLLED RELEASE	Article	2021	330		1	14		10.1016/j.jconrel.2020.12.011
201	Yang, HT; Qu, XH; Wang, MQ; Cheng, HW; Jia, B; Nie, JF; Dai, KR; Zheng, YF	Zn-0.4Li alloy shows great potential for the fixation and healing of bone fractures at load-bearing sites	CHEMICAL ENGINEERING JOURNAL	Article	2021	417				129317	10.1016/j.cej.2021.129317
202	Li, GN; Zhu, SM; Nie, JF; Zheng, YF; Sun, ZL	Investigating the stress corrosion cracking of a biodegradable Zn-0.8 wt%Li alloy in simulated body fluid	BIOACTIVE MATERIALS	Article	2021	6	5	1468	1478		10.1016/j.bioactmat.2020.10.009
203	Loh, HW; Ooi, CP; Dhok, SG; Sharma, M; Bhurane, AA; Acharya, UR	Automated detection of cyclic alternating pattern and classification of sleep stages using deep neural network	APPLIED INTELLIGENCE	Article	2022	52	3	2903	2917		10.1007/s10489-021-02597-8
204	Bargshady, G; Zhou, XJ; Barua, PD; Gururajan, R; Li, YF; Acharya, UR	Application of CycleGAN and transfer learning techniques for automated detection of COVID-19 using X-ray images	PATTERN RECOGNITION LETTERS	Article	2022	153		67	74		10.1016/j.patrec.2021.11.020
205	Jahmunah, V; Sudarshan, VK; Oh, SL; Gururajan, R; Gururajan, R; Zhou, XJ; Tao, XH; Faust, O; Ciaccio, EJ; Ng, KH; Acharya, UR	Future IoT tools for COVID-19 contact tracing and prediction: A review of the state-of-the-science	INTERNATIONAL JOURNAL OF IMAGING SYSTEMS AND TECHNOLOGY	Review	2021	31	2	455	471		10.1002/ima.22552
206	Zhao, XX; Ang, CKE; Acharya, UR; Cheong, KH	Application of Artificial Intelligence techniques for the detection of Alzheimer's disease using structural MRI images	BIOCYBERNETICS AND BIOMEDICAL ENGINEERING	Review	2021	41	2	456	473		10.1016/j.bbe.2021.02.006

	Authors	Article Title	Source Title	Document Type	Publication Year	Volume	Issue	Start Page	End Page	Article Number	DOI
207	Cheong, KH; Tang, KJW; Zhao, X; Koh, JEW; Faust, O; Gururajan, R; Ciaccio, EJ; Rajinikanth, V; Acharya, UR	An automated skin melanoma detection system with melanoma-index based on entropy features	BIOCYBERNETICS AND BIOMEDICAL ENGINEERING	Article	2021	41	3	997	1012		10.1016/j.bbe.2021.05.010
208	Yoshiura, S; Pindor, B; Line, JLB; Barry, N; Trott, CM; Beardsley, A; Bowman, J; Byrne, R; Chokshi, A; Hazelton, BJ; Hasegawa, K; Howard, E; Greig, B; Jacobs, D; Jordan, CH; Joseph, R; Kolopanis, M; Lynch, C; McKinley, B; Mitchell, DA; Morales, MF; Murray, SG; Pober, JC; Rahimi, M; Takahashi, K; Tingay, SJ; Wayth, RB; Webster, RL; Wilensky, M; Wyithe, JSB; Zhang, Z; Zheng, Q	A new MWA limit on the 21 cm power spectrum at redshifts ~13-17	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	Article	2021	505	4	4775	4790		10.1093/mnras/stab1560
209	Xia, ZG; Liu, S; Bian, Z; Song, JH; Feng, F; Jiang, N	Mechanical Properties and Damage Characteristics of Coal-Rock Combination with Different Dip Angles	KSCE JOURNAL OF CIVIL ENGINEERING	Article	2021	25	5	1687	1699		10.1007/s12205-021-1366-1
210	Nayak, DR; Das, D; Majhi, B; Bhandary, SV; Acharya, UR	ECNet: An evolutionary convolutional network for automated glaucoma detection using fundus images	BIOMEDICAL SIGNAL PROCESSING AND CONTROL	Article	2021	67				102559	10.1016/j.bspc.2021.102559
211	Yokoo, K; Ishida, K; Ercan, A; Tu, TB; Nagasato, T; Kiyama, M; Amagasaki, M	Capabilities of deep learning models on learning physical relationships: Case of rainfall-runoff modeling with LSTM	SCIENCE OF THE TOTAL ENVIRONMENT	Article	2022	802				149876	10.1016/j.scitotenv.2021.149876
212	Poveda, J; Martínez-Gómez, A; Fenoll, C; Escobar, C	The Use of Biochar for Plant Pathogen Control	PHYTOPATHOLOGY	Review	2021	111	9	1490	1499		10.1094/PHYTO-06-20-0248-RVW
213	Fazal, S; Lee, R	Biomimetic Bacterial Membrane Vesicles for Drug Delivery Applications	PHARMACEUTICS	Review	2021	13	9			1430	10.3390/pharmaceutics13091430
214	Tang, KJW; Ang, CKE; Constantinides, T; Rajinikanth, V; Acharya, UR; Cheong, KH	Artificial Intelligence and Machine Learning in Emergency Medicine	BIOCYBERNETICS AND BIOMEDICAL ENGINEERING	Review	2021	41	1	156	172		10.1016/j.bbe.2020.12.002
215	Gudigar, A; Raghavendra, U; Nayak, S; Ooi, CP; Chan, WY; Gangavarapu, MR; Dharmik, C; Samanth, J; Kadri, NA; Hasikin, K; Barua, PD; Chakraborty, S; Ciaccio, EJ; Acharya, UR	Role of Artificial Intelligence in COVID-19 Detection	SENSORS	Article	2021	21	23			8045	10.3390/s21238045
216	Bao, G; Fan, QQ; Ge, DF; Wang, K; Sun, MM; Zhang, ZC; Guo, H; Yang, HT; He, B; Zheng, YF	In vitro and in vivo studies to evaluate the feasibility of Zn-0.1Li and Zn-0.8Mg application in the uterine cavity microenvironment compared to pure zinc	ACTA BIOMATERIALIA	Article	2021	123		393	406		10.1016/j.actbio.2020.12.048
217	Singha, J; Surnis, MP; Joshi, BC; Tarafdar, P; Rana, P; Susobhanan, A; Girgaonkar, R; Kolhe, N; Agarwal, N; Desai, S; Prabu, T; Bathula, A; Dandapat, S; Dey, L; Hisano, S; Kato, R; Kharbanda, D; Kikunaga, T; Marmat, P; Susarla, SC; Bagchi, M; Batra, ND; Choudhury, A; Gopakumar, A; Gupta, Y; Krishnakumar, MA; Maan, Y; Manoharan, PK; Nobleson, K; Pandian, A; Pathak, D; Takahashi, K	Evidence for profile changes in PSR J1713+0747 using the uGMRT	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	Article	2021	507	1	L57	L61		10.1093/mnrasl/slab098
218	Sawant, NK; Patidar, S; Nesaragi, N; Acharya, UR	Automated detection of abnormal heart sound signals using Fano-factor constrained tunable quality wavelet transform	BIOCYBERNETICS AND BIOMEDICAL ENGINEERING	Article	2021	41	1	111	126		10.1016/j.bbe.2020.12.007
219	Oh, SL; Jahmunah, V; Arunkumar, N; Abdulhay, EW; Gururajan, R; Adib, N; Ciaccio, EJ; Cheong, KH; Acharya, UR	A novel automated autism spectrum disorder detection system	COMPLEX & INTELLIGENT SYSTEMS	Article	2021	7	5	2399	2413		10.1007/s40747-021-00408-8
220	Owen, K; Saeki, K; Warren, JD; Bocconcelli, A; Wiley, DN; Ohira, SI; Bombosch, A; Toda, K; Zitterbart, DP	Natural dimethyl sulfide gradients would lead marine predators to higher prey biomass	COMMUNICATIONS BIOLOGY	Article	2021	4	1			149	10.1038/s42003-021-01668-3
221	Pothoczki, S; Pethes, I; Pusztai, L; Temleitner, L; Ohara, K; Bakó, I	Properties of Hydrogen-Bonded Networks in Ethanol-Water Liquid Mixtures as a Function of Temperature: Diffraction Experiments and Computer Simulations	JOURNAL OF PHYSICAL CHEMISTRY B	Article	2021	125	23	6272	6279		10.1021/acs.jpcb.1c03122
222	Sainoki, A; Schwartzkopff, AK; Jiang, L; Mitri, HS	Numerical Modeling of Complex Stress State in a Fault Damage Zone and Its Implication on Near-Fault Seismic Activity	JOURNAL OF GEOPHYSICAL RESEARCH-SOLID EARTH	Article	2021	126	7			e2021JB021784	10.1029/2021JB021784
223	Fukuyama, S; Kumamoto, S; Nagano, S; Hitotsuya, S; Yasuda, K; Kitamura, Y; Iwatsuki, M; Baba, H; Ihara, T; Nakanishi, Y; Nakashima, Y	Detection of cancer cells in whole blood using a dynamic deformable microfilter and a nucleic acid aptamer	TALANTA	Article	2021	228				122239	10.1016/j.talanta.2021.122239
224	Koh, JEW; De Michele, S; Sudarshan, VK; Jahmunah, V; Ciaccio, EJ; Ooi, CP; Gururajan, R; Gururajan, R; Oh, SL; Lewis, SK; Green, PH; Bhagat, G; Acharya, UR	Automated interpretation of biopsy images for the detection of celiac disease using a machine learning approach	COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE	Article	2021	203				106010	10.1016/j.cmpb.2021.106010
225	Imoto, A; Yamada, M; Sakamoto, T; Okuyama, A; Ishida, T; Sawa, S; Aida, M	A ClearSee-Based Clearing Protocol for 3D Visualization of Arabidopsis thaliana Embryos	PLANTS-BASEL	Article	2021	10	2			190	10.3390/plants10020190
226	Tu, TB; Ishida, K; Ercan, A; Kiyama, M; Amagasaki, M; Zhao, T	Hybrid precipitation downscaling over coastal watersheds in Japan using WRF and CNN	JOURNAL OF HYDROLOGY-REGIONAL STUDIES	Article	2021	37				100921	10.1016/j.ejrh.2021.100921
227	Coskun, M; Yildirim, O; Demir, Y; Acharya, UR	Efficient deep neural network model for classification of grasp types using sEMG signals	JOURNAL OF AMBIENT INTELLIGENCE AND HUMANIZED COMPUTING	Article; Early Access	2021						10.1007/s12652-021-03284-9
228	Raghavendra, U; Gudigar, A; Rao, TN; Rajinikanth, ; Ciaccio, EJ; Yeong, CH; Satapathy, SC; Molinari, F; Acharya, UR	Feature-versus deep learning-based approaches for the automated detection of brain tumor with magnetic resonance images: A comparative study	INTERNATIONAL JOURNAL OF IMAGING SYSTEMS AND TECHNOLOGY	Article	2022	32	2	501	516		10.1002/ima.22646
229	Yonemaru, N; Kuroyanagi, S; Hobbs, G; Takahashi, K; Zhu, XJ; Coles, WA; Dai, S; Howard, E; Manchester, R; Reardon, D; Russell, C; Shannon, RM; Thyagarajan, N; Spiewak, R; Wang, JB	Searching for gravitational-wave bursts from cosmic string cusps with the Parkes Pulsar Timing Array	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	Article	2021	501	1	701	712		10.1093/mnras/staa3721
230	Pothoczki, S; Pethes, I; Pusztai, L; Temleitner, L; Csókás, D; Kohara, S; Ohara, K; Bakó, I	Hydrogen bonding and percolation in propan-2-ol - Water liquid mixtures: X-ray diffraction experiments and computer simulations	JOURNAL OF MOLECULAR LIQUIDS	Article; Proceedings Paper	2021	329				115592	10.1016/j.molliq.2021.115592
231	Pethes, I; Pusztai, L; Ohara, K; Temleitner, L	Temperature-dependent structure of 1-propanol/water mixtures: X-ray diffraction experiments and computer simulations at low and high alcohol contents	JOURNAL OF MOLECULAR LIQUIDS	Article	2021	340				117188	10.1016/j.molliq.2021.117188
232	Matsumoto, H; Kimata, Y; Higaki, T; Higashiyama, T; Ueda, M	Dynamic Rearrangement and Directional Migration of Tubular Vacuoles are Required for the Asymmetric Division of the Arabidopsis Zygote	PLANT AND CELL PHYSIOLOGY	Article	2021	62	8	1280	1289		10.1093/pcp/pcab075
233	Noguchi, Y; Matsuo, H	Polarization and Dielectric Properties of BiFeO3-BaTiO3 Superlattice-Structured Ferroelectric Films	NANOMATERIALS	Article	2021	11	7			1857	10.3390/nano11071857
234	Asaoka, M; Ooe, M; Gunji, S; Milani, P; Runel, G; Horiguchi, G; Hamant, O; Sawa, S; Tsukaya, H; Ferjani, A	Stem integrity in Arabidopsis thaliana requires a load-bearing epidermis	DEVELOPMENT	Article	2021	148	4			dev198028	10.1242/dev.198028

	Authors	Article Title	Source Title	Document Type	Publication Year	Volume	Issue	Start Page	End Page	Article Number	DOI
235	Kimura, T; Haga, K; Nomura, Y; Higaki, T; Nakagami, H; Sakai, T	Phosphorylation of NONPHOTOTROPIC HYPOCOTYL3 affects photosensory adaptation during the phototropic response	PLANT PHYSIOLOGY	Article	2021	187	2	981	995		10.1093/plphys/kiab281
236	Barrales-Mora, LA; Tokuda, Y; Molodov, DA; Tsurekawa, S	On incipient plasticity in the vicinity of grain boundaries in aluminum bicrystals: Experimental and simulation nanoindentation study	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	Article	2021	828				142100	10.1016/j.msea.2021.142100
237	Schwartzkopff, AK; Sainoki, A; Elsworth, D	Numerical simulation of mixed aseismic/seismic fault-slip induced by fluid injection using coupled X-FEM analysis	INTERNATIONAL JOURNAL OF ROCK MECHANICS AND MINING SCIENCES	Article	2021	147				104871	10.1016/j.ijrmms.2021.104871
238	Suzuki, R; Ueda, T; Wada, T; Ito, M; Ishida, T; Sawa, S	Identification of genes involved in Meloidogyne incognita-induced gall formation processes in Arabidopsis thaliana	PLANT BIOTECHNOLOGY	Article	2021	38	1	1	8		10.5511/plantbiotechnology.20.0716a
239	Fujihara, R; Uchida, N; Tameshige, T; Kawamoto, N; Hotokezaka, Y; Higaki, T; Simon, R; Torii, KU; Tasaka, M; Aida, M	The boundary-expressed EPIDERMAL PATTERNING FACTOR-LIKE2 gene encoding a signaling peptide promotes cotyledon growth during Arabidopsis thaliana embryogenesis	PLANT BIOTECHNOLOGY	Article	2021	38	3	317	322		10.5511/plantbiotechnology.21.0508a
240	Noguchi, Y; Matsuo, H	Ferroelectric photovoltaic tensor in visible-light-active Fe-doped BaTiO3 single crystals	JAPANESE JOURNAL OF APPLIED PHYSICS	Article	2021	60	SF			SFFA01	10.35848/1347-4065/ac0c6c
241	Cooray, S; Takeuchi, TT; Akahori, T; Miyashita, Y; Ideguchi, S; Takahashi, K; Ichiki, K	An iterative reconstruction algorithm for Faraday tomography	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	Article	2021	500	4	5129	5141		10.1093/mnras/staa3580
242	Suzuki, R; Yamada, M; Higaki, T; Aida, M; Kubo, M; Tsai, AYL; Sawa, S	PUCHI Regulates Giant Cell Morphology During Root-Knot Nematode Infection in Arabidopsis thaliana	FRONTIERS IN PLANT SCIENCE	Article	2021	12				755610	10.3389/fpls.2021.755610
243	Ikeda, Y; Zalabák, D; Kubalová, I; Králová, M; Brenner, WG; Aida, M	Interpreting Cytokinin Action as Anterograde Signaling and Beyond	FRONTIERS IN PLANT SCIENCE	Article	2021	12				641257	10.3389/fpls.2021.641257
244	Brandenburg, JE; Seo, J; Eto, K; Molodov, DA; Tsurekawa, S	Influence of symmetrical 1010 high-angle tilt grain boundaries on the local mechanical properties of magnesium bicrystals	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	Article	2021	826				141913	10.1016/j.msea.2021.141913
245	Romero-Mujalli, G; Hartmann, J; Hosono, T; Louvat, P; Okamura, K; Delmelle, P; Amann, T; Böttcher, ME	Hydrothermal and magmatic contributions to surface waters in the Aso caldera, southern Japan: Implications for weathering processes in volcanic areas	CHEMICAL GEOLOGY	Article	2022	588				120612	10.1016/j.chemgeo.2021.120612
246	Hosokawa, S; Bérar, JF; Boudet, N; Pilgrim, WC; Pusztai, L; Hiroi, S; Kohara, S; Kato, H; Fischer, HE; Zeidler, A	Detailed structural analysis of amorphous Pd40Cu40P20: Comparison with the metallic glass Pd40Cu40P20 from the viewpoint of glass forming ability	JOURNAL OF NON-CRYSTALLINE SOLIDS	Article	2021	555				120536	10.1016/j.jnoncrysol.2020.120536
247	Raghavendra, U; Gudigar, A; Chakole, Y; Kasula, P; Subha, DP; Kadri, NA; Ciaccio, EJ; Acharya, UR	Automated detection and screening of depression using continuous wavelet transform with electroencephalogram signals	EXPERT SYSTEMS	Article	2023	40	4			e12803	10.1111/exsy.12803
248	Ikeda, Y; Králová, M; Zalabák, D; Kubalová, I; Aida, M	Post-Embryonic Lateral Organ Development and Adaxial-Abaxial Polarity Are Regulated by the Combined Effect of ENHANCER OF SHOOT REGENERATION 1 and WUSCHEL in Arabidopsis Shoots	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	Article	2021	22	19			10621	10.3390/ijms221910621
249	Singh, HKG; Yusup, S; Quitain, AT; Abdullah, B; Inayat, A; Ameen, M; Cheah, KW; Sasaki, M; Kida, T; Chai, YH	Five-lump kinetic approach on biofuel production from refined rubber seed oil over Cu/ZSM-5 catalyst via catalytic cracking reaction	RENEWABLE ENERGY	Article	2021	171		1445	1453		10.1016/j.renene.2021.02.085
250	Gudigar, A; Raghavendra, U; Samanth, J; Gangavarapu, MR; Kudva, A; Paramasivam, G; Nayak, K; Tan, RS; Molinari, F; Ciaccio, EJ; Acharya, UR	Automated detection of chronic kidney disease using image fusion and graph embedding techniques with ultrasound images	BIOMEDICAL SIGNAL PROCESSING AND CONTROL	Article	2021	68				102733	10.1016/j.bspc.2021.102733
251	Ishida, K; Kiyama, M; Ercan, A; Amagasaki, M; Tu, TB	Multi-time-scale input approaches for hourly-scale rainfall-runoff modeling based on recurrent neural networks	JOURNAL OF HYDROINFORMATICS	Article	2021	23	6	1312	1324		10.2166/hydro.2021.095
252	Sato, F; Iba, K; Higaki, T	Involvement of the Membrane Trafficking Factor PATROL1 in the Salinity Stress Tolerance of Arabidopsis thaliana	CYTOLOGIA	Article	2021	86	2	119	126		10.1508/cytologia.86.119
253	Kamon, E; Noda, C; Higaki, T; Demura, T; Ohtani, M	Calcium signaling contributes to xylem vessel cell differentiation via post-transcriptional regulation of VND7 downstream events	PLANT BIOTECHNOLOGY	Article	2021	38	3	331	337		10.5511/plantbiotechnology.21.0519a
254	Kunita, I; Morita, MT; Toda, M; Higaki, T	A Three-Dimensional Scanning System for Digital Archiving and Quantitative Evaluation of Arabidopsis Plant Architectures	PLANT AND CELL PHYSIOLOGY	Article	2021	62	12	1975	1982		10.1093/pcp/pcab068
255	Kikukawa, K; Sato, R; Iwamoto, M; Higaki, T	Wide-Range Segmentation of Cotyledon Epidermal Cells for Morphometrical Analysis and Mechanical Simulation	CYTOLOGIA	Review	2021	86	3	189	194		10.1508/cytologia.86.189
256	Yoshiura, S; Shimabukuro, H; Hasegawa, K; Takahashi, K	Predicting 21cm-line map from Lyman-α emitter distribution with generative adversarial networks	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	Article	2021	506	1	357	371		10.1093/mnras/stab1718
257	Kikukawa, K; Yoshimura, K; Watanabe, A; Higaki, T	Metal-Nano-Ink Coating for Monitoring and Quantification of Cotyledon Epidermal Cell Morphogenesis	FRONTIERS IN PLANT SCIENCE	Article	2021	12				745980	10.3389/fpls.2021.745980
258	Maeda, K; Higaki, T	Disruption of actin filaments delays accumulation of cell plate membranes after chromosome separation	PLANT SIGNALING & BEHAVIOR	Article	2021	16	4			1873586	10.1080/15592324.2021.1873586
259	Amagu, CA; Zhang, C; Kodama, J; Shioya, K; Yamaguchi, T; Sainoki, A; Fukuda, D; Fujii, Y; Sharifzadeh, M	Displacement Measurements and Numerical Analysis of Long-Term Rock Slope Deformation at Higashi-Shikagoe Limestone Quarry, Japan	ADVANCES IN CIVIL ENGINEERING	Article	2021	2021				1316402	10.1155/2021/1316402
260	Ishida, T; Yoshimura, H; Takekawa, M; Higaki, T; Ideue, T; Hatano, M; Igarashi, M; Tani, T; Sawa, S; Ishikawa, H	Discovery, characterization and functional improvement of kumamonamide as a novel plant growth inhibitor that disturbs plant microtubules	SCIENTIFIC REPORTS	Article	2021	11	1			6077	10.1038/s41598-021-85501-1
261	Kumamoto, H; Hisano, S; Takahashi, K	Constraints on ultra-low-frequency gravitational waves with statistics of pulsar spin-down rates. II. Mann-Whitney U test	PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN	Article	2021	73	4	1001	1009		10.1093/pasj/psab058

	Authors	Article Title	Source Title	Document Type	Publication Year	Volume	Issue	Start Page	End Page	Article Number	DOI
262	Trott, CM; Jordan, CH; Line, JLB; Lynch, CR; Yoshiura, S; McKinley, B; Dayal, P; Pindor, B; Hutter, A; Takahashi, K; Wayth, RB; Barry, N; Beardsley, A; Bowman, J; Byrne, R; Chokshi, A; Greig, B; Hasegawa, K; Hazelton, BJ; Howard, E; Jacobs, D; Kolopanis, M; Mitchell, DA; Morales, MF; Murray, S; Pober, JC; Rahimi, M; Tingay, SJ; Webster, RL; Wilensky, M; Wyithe, JSB; Zheng, Q	Constraining the 21cm brightness temperature of the IGM at z=6.6 around LAEs with the murchison widefield array	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	Article	2021	507	1	772	780		10.1093/mnras/stab2235
263	Chan, YM; Ng, EYK; Jahmunah, V; Koh, JEW; Oh, SL; Han, WS; Yip, LWL; Acharya, UR	Automated detection of glaucoma using elongated quinary patterns technique with optical coherence tomography angiogram images	BIOMEDICAL SIGNAL PROCESSING AND CONTROL	Article	2021	69				102895	10.1016/j.bspc.2021.102895
264	Temleitner, L; Hattori, T; Abe, J; Nakajima, Y; Pusztai, L	Pressure-Dependent Structure of Methanol-Water Mixtures up to 1.2 GPa: Neutron Diffraction Experiments and Molecular Dynamics Simulations	MOLECULES	Article	2021	26	5			1218	10.3390/molecules26051218
265	Hosono, T; Yamanaka, C	Origins and pathways of deeply derived carbon and fluids observed in hot spring waters from non-active volcanic fields, western Kumamoto, Japan	EARTH PLANETS AND SPACE	Article	2021	73	1			155	10.1186/s40623-021-01478-1
266	Nakanishi, Y; Yamaguchi, H; Hirata, Y; Nakashima, Y; Fujiwara, Y	Micro-abrasive glass surface for producing microplastics for biological tests	WEAR	Article	2021	477				203816	10.1016/j.wear.2021.203816
267	Faust, O; Koh, JEW; Jahmunah, V; Sabut, S; Ciaccio, EJ; Majid, A; Ali, A; Lip, GYH; Acharya, UR	Fusion of Higher Order Spectra and Texture Extraction Methods for Automated Stroke Severity Classification with MRI Images	INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH	Article	2021	18	15			8059	10.3390/ijerph18158059
268	Qin, YM; Kumon, M; Furukawa, T	Estimation of a Human-Maneuvered Target Incorporating Human Intention	SENSORS	Article	2021	21	16			5316	10.3390/s21165316
269	Higaki, T; Sato, F; Iba, K	Environmental Responses of the Membrane Trafficking Factor PATROL1 in the Arabidopsis Stomatal Complex	CYTOLOGIA	Article	2021	86	2	101	101		10.1508/cytologia.86.101
270	Hosokawa, S; Kawakita, Y; Pusztai, L; Ikeda, K; Otomo, T	Detailed Investigations on Short- and Intermediate-Range Structures of Ge-Se Glasses near the Stiffness Transition Composition	JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN	Article	2021	90	2			24601	10.7566/JPSJ.90.024601
271	Yokoi, A; Aida, M	Postgenital Fusion and Epidermal Cell Fate Control during Gynoecium Development	CYTOLOGIA	Article	2021	86	1	1	1		10.1508/cytologia.86.1
272	Mizota, C; Hansen, R; Hosono, T; Okumura, A	Museum-archived and recent acquisition nitrates from the Atacama Desert, Chile, South America: refinement of the dual isotopic compositions (δ 15N vs. δ 18O)	ISOTOPES IN ENVIRONMENTAL AND HEALTH STUDIES	Review	2022	58	1	1	17		10.1080/10256016.2021.1990913
273	Nakashima, Y; Akaike, M; Kounoura, M; Hayashi, K; Morita, K; Oki, Y; Nakanishi, Y	Evaluation of osteoblastic cell behavior upon culture on titanium substrates photo-functionalized by vacuum ultra-violet treatment	EXPERIMENTAL CELL RESEARCH	Article	2022	410	1			112944	10.1016/j.yexcr.2021.112944
274	Escobar, C; Fenoll, C	Compatible interactions between plants and endoparasitic nematodes-A follow-up of ABR volume 73: Plant nematode interactions-A view on compatible interrelationships	PAST, CURRENT AND FUTURE TOPICS	Review; Book Chapter	2021	100		237	248		10.1016/bs.abr.2021.03.001
275	Barcala, M; Fenoll, C; Escobar, C	Laser Microdissection of Cells and Isolation of High-Quality RNA After Cryosectioning	RNA ABUNDANCE ANALYSIS, 2 EDITION: Methods and Protocols	Article; Book Chapter	2021	2170		35	43		10.1007/978-1-0716-0743-5_3
276	Ohira, SI; Sato, Y; Horiuchi, K; Shelor, CP; Toda, K	Indirect Potentiometric pH Detection of Weak Acids with Absolute Quantitation by a Theoretical Approach	ANALYTICAL CHEMISTRY	Article	2021	93	36	12305	12311		10.1021/acs.analchem.1c01987
277	Yamaguchi, H; Higuchi, K; Sakata, K; Akiyama, T; Kasamura, K; Nakashima, Y; Nakanishi, Y	Hydrophilic sealing material for live centers in machine tools	WEAR	Article	2021	477				203838	10.1016/j.wear.2021.203838
278	Kumamoto, H; Dai, S; Johnston, S; Kerr, M; Shannon, RM; Weltevrede, P; Sobey, C; Manchester, RN; Hobbs, G; Takahashi, K	Flux density variability of 286 radio pulsars from a decade of monitoring	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	Article	2021	501	3	4490	4513		10.1093/mnras/staa3910
279	Tanimizu, M; Sugimoto, N; Hosono, T; Kuribayashi, C; Morimoto, T; Ito, A; Umam, R; Nishio, Y; Nagaishi, K; Ishikawa, T	Application of B and Li isotope systematics for detecting chemical disturbance in groundwater associated with large shallow inland earthquakes in Kumamoto, Japan	GEOCHEMICAL JOURNAL	Article	2021	55	4	241	250		10.2343/geochemj.2.0633
280	Loh, HW; Hong, WR; Ooi, CP; Chakraborty, S; Barua, PD; Deo, RC; Soar, J; Palmer, EE; Acharya, UR	Application of Deep Learning Models for Automated Identification of Parkinson's Disease: A Review (2011-2021)	SENSORS	Review	2021	21	21			7034	10.3390/s21217034
281	Deshan, ADK; Forero, JJ; Bartley, JP; Marasinghege, C; Tuiatua, K; Beltramini, J; Doherty, WOS	Structural features of cotton gin trash derived carbon material as a catalyst for the dehydration of fructose to 5-hydroxymethylfurfural	FUEL	Article	2021	306				121670	10.1016/j.fuel.2021.121670
282	Tana, T; Tran, THT; Ramirez, J; Strong, PJ; O'Hara, I; Beltramini, J; Doherty, WOS; Moghaddam, L	Conversion of pilot plant derived 2G ethanol cellulosic stillage to value-added chemicals	INDUSTRIAL CROPS AND PRODUCTS	Article	2021	171				113839	10.1016/j.indcrop.2021.113839
283	Wanmolee, W; Beltramini, JN; Bartley, J; Laosiripojana, N; Doherty, WOS	One step liquefaction of hardwood lignin to oligomers soluble in polymerizable solvents	INDUSTRIAL CROPS AND PRODUCTS	Article	2021	162				113259	10.1016/j.indcrop.2021.113259
284	Deshan, ADK; Moghaddam, L; Siriwardena, DP; Strounina, E; Beltramini, J; Doherty, WOS	Transforming Cotton Gin Trash to Engineered Functional Carbon Structures	ADVANCED SUSTAINABLE SYSTEMS	Article	2021	5	9			2100061	10.1002/adsu.202100061
285	Karafi, A; Kim, Y; Trabelsi-Ayadi, M; Srasra, E; Baklouti, L; Hamdi, A; Mellah, B	Vicens' achievements in calixdendrimer chemistry	JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY	Article	2021	101	3-4	167	174		10.1007/s10847-021-01083-5
286	Kora, P; Ooi, CP; Faust, O; Raghavendra, U; Gudigar, A; Chan, WY; Meenakshi, K; Swaraja, K; Plawiak, P; Acharya, UR	Transfer learning techniques for medical image analysis: A review	BIOCYBERNETICS AND BIOMEDICAL ENGINEERING	Review	2022	42	1	79	107		10.1016/j.bbe.2021.11.004
287	Jahmunah, V; Ng, EYK; Tan, RS; Oh, SL; Acharya, UR	Explainable detection of myocardial infarction using deep learning models with Grad-CAM technique on ECG signals	COMPUTERS IN BIOLOGY AND MEDICINE	Article	2022	146				105550	10.1016/j.compbiomed.2022.105550
288	Tarafdar, P; Nobleson, K; Rana, P; Singha, J; Krishnakumar, MA; Joshi, BC; Paladi, AK; Kolhe, N; Batra, ND; Agarwal, N; Bathula, A; Dandapat, S; Desai, S; Dey, L; Hisano, S; Ingale, P; Kato, R; Kharbanda, D; Kikunaga, T; Marmat, P; Pandian, BA; Prabu, T; Srivastava, A; Surnis, M; Susarla, SC; Susobhanan, A; Takahashi, K; Arumugam, P; Bagchi, M; Banik, S; De, K; Girgaonkar, R; Gopakumar, A; Gupta, Y; Maan, Y; Manoharan, PK; Naidu, A; Pathak, D	The Indian Pulsar Timing Array: First data release	PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF AUSTRALIA	Article	2022	39				e053	10.1017/pasa.2022.46
289	Dogan, S; Barua, PD; Kutlu, H; Baygin, M; Fujita, H; Tuncer, T; Acharya, UR	Automated accurate fire detection system using ensemble pretrained residual network	EXPERT SYSTEMS WITH APPLICATIONS	Article	2022	203				117407	10.1016/j.eswa.2022.117407

	Authors	Article Title	Source Title	Document Type	Publication Year	Volume	Issue	Start Page	End Page	Article Number	DOI
290	Jahmunah, V; Ng, EYK; Tan, RS; Oh, SL; Acharya, UR	Uncertainty quantification in DenseNet model using myocardial infarction ECG signals	COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE	Article	2023	229				107308	10.1016/j.cmpb.2022.107308
291	Zhang, Y; Tan, SY; Gao, YH; Kan, CC; Wang, HL; Yang, Q; Xia, XL; Ishida, T; Sawa, S; Guo, HW; Li, ZH	CLE42 delays leaf senescence by antagonizing ethylene pathway in Arabidopsis	NEW PHYTOLOGIST	Article	2022	235	2	550	562		10.1111/nph.18154
292	Kwak, K; Mine, Y; Morito, S; Ohmura, T; Takashima, K	Correlation between strength and hardness for substructures of lath martensite in low- and medium-carbon steels	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	Article	2022	856				144007	10.1016/j.msea.2022.144007
293	Kaplan, E; Altunisik, E; Firat, YE; Barua, PD; Dogan, S; Baygin, M; Demir, FB; Tuncer, T; Palmer, E; Tan, RS; Yu, P; Soar, J; Fujita, H; Acharya, UR	Novel nested patch-based feature extraction model for automated Parkinson's Disease symptom classification using MRI images	COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE	Article	2022	224				107030	10.1016/j.cmpb.2022.107030
294	Yiin, CL; bin Odita, E; Lock, SSM; Cheah, KW; Chan, YH; Wong, MK; Chin, BLF; Quitain, AT; Loh, SK; Yusup, S	A review on potential of green solvents in hydrothermal liquefaction (HTL) of lignin	BIORESOURCE TECHNOLOGY	Review	2022	364				128075	10.1016/j.biortech.2022.128075
295	Molodov, KD; Al-Samman, T; Molodov, DA	Effect of gadolinium on the deformation and recrystallization behavior of magnesium crystals	ACTA MATERIALIA	Article	2022	240				118312	10.1016/j.actamat.2022.118312
296	Kang, JK; Wang, XN; Ishida, T; Grienenberger, E; Zheng, Q; Wang, J; Zhang, YH; Chen, WQ; Chen, MM; Song, XF; Wu, CY; Hu, ZB; Jia, LY; Li, C; Liu, CM; Fletcher, JC; Sawa, S; Wang, GD	A group of CLE peptides regulates de novo shoot regeneration in Arabidopsis thaliana	NEW PHYTOLOGIST	Article	2022	235	6	2300	2312		10.1111/nph.18291
297	Martinez-Gomez, A; Poveda, J; Escobar, C	Overview of the use of biochar from main cereals to stimulate plant growth	FRONTIERS IN PLANT SCIENCE	Review	2022	13				912264	10.3389/fpls.2022.912264
298	Sharma, M; Bhurane, AA; Acharya, UR	An expert system for automated classification of phases in cyclic alternating patterns of sleep using optimal wavelet-based entropy features	EXPERT SYSTEMS	Article	2024	41	5			e12939	10.1111/exsy.12939
299	Rahman, ATMS; Kono, Y; Hosono, T	Self-organizing map improves understanding on the hydrochemical processes in aquifer systems	SCIENCE OF THE TOTAL ENVIRONMENT	Article	2022	846				157281	10.1016/j.scitotenv.2022.157281
300	Nobleson, K; Agarwal, N; Girgaonkar, R; Pandian, A; Joshi, BC; Krishnakumar, MA; Susobhanan, A; Desai, S; Prabu, T; Bathula, A; Pennucci, TT; Banik, S; Bagchi, M; Batra, ND; Choudhary, A; Dandapat, S; Dey, L; Gupta, Y; Hisano, S; Kato, R; Kharbanda, D; Kikunaga, T; Kolhe, N; Maan, Y; Marmat, P; Arumugam, P; Manoharan, PK; Pathak, D; Singha, J; Surnis, MP; Susarla, SC; Takahashi, K	Low-frequency wideband timing of InPTA pulsars observed with the uGMRT	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	Article	2022	512	1	1234	1243		10.1093/mnras/stac532
301	Sakamoto, T; Sakamoto, Y; Grob, S; Slane, D; Yamashita, T; Ito, N; Oko, Y; Sugiyama, T; Higaki, T; Hasezawa, S; Tanaka, M; Matsui, A; Seki, M; Suzuki, T; Grossniklaus, U; Matsunaga, S	Two-step regulation of centromere distribution by condensin II and the nuclear envelope proteins	NATURE PLANTS	Article	2022	8	8	940	953		10.1038/s41477-022-01200-3
302	Bao, G; Wang, K; Yang, LJ; He, JL; Bin H; Xu, XX; Zheng, YF	Feasibility evaluation of a Zn-Cu alloy for intrauterine devices: In vitro and in vivo studies	ACTA BIOMATERIALIA	Article	2022	142		374	387		10.1016/j.actbio.2022.01.053
303	Okamoto, S; Kawasaki, A; Makino, Y; Ishida, T; Sawa, S	Long-distance translocation of CLAVATA3/ESR-related 2 peptide and its positive effect on roots sucrose status	PLANT PHYSIOLOGY	Article	2022	189	4	2357	2367		10.1093/plphys/kiac227
304	Fauzi, ASA; Hamidah, NL; Kitamura, S; Kodama, T; Sonda, K; Putri, GK; Shinkai, T; Ahmad, MS; Inomata, Y; Quitain, AT; Kida, T	Electrochemical Detection of Ethanol in Air Using Graphene Oxide Nanosheets Combined with Au-WO3	SENSORS	Article	2022	22	9			3194	10.3390/s22093194
305	Mahapatra, C; Lee, R; Paul, MK	Emerging role and promise of nanomaterials in organoid research	DRUG DISCOVERY TODAY	Review	2022	27	3	890	899		10.1016/j.drudis.2021.11.007
306	Chen, GP; Wang, YL; Cai, GC; Larbi, AS; Wan, BL; Hao, QD	Performance and modeling of FRP-steel dually confined reinforced concrete under cyclic axial loading	COMPOSITE STRUCTURES	Article	2022	300				116076	10.1016/j.compstruct.2022.116076
307	Fadillah, G; Toda, K; Ohira, SI	One-stage chiral enrichment process by continuous flow electrodialysis with molecularly imprinted membrane	SEPARATION AND PURIFICATION TECHNOLOGY	Article	2023	305				122492	10.1016/j.seppur.2022.122492
308	Joshi, BC; Gopakumar, A; Pandian, A; Prabu, T; Dey, L; Bagchi, M; Desai, S; Tarafdar, P; Rana, P; Maan, Y; Batra, ND; Girgaonkar, R; Agarwal, N; Arumugam, P; Basu, A; Bathula, A; Dandapat, S; Gupta, Y; Hisano, S; Kato, R; Kharbanda, D; Kikunaga, T; Kolhe, N; Krishnakumar, MA; Manoharan, PK; Marmat, P; Naidu, A; Banik, S; Nobleson, K; Paladi, AK; Pathak, D; Singha, J; Srivastava, A; Surnis, M; Susarla, SC; Susobhanan, A; Takahashi, K	Nanohertz gravitational wave astronomy during SKA era: An InPTA perspective	JOURNAL OF ASTROPHYSICS AND ASTRONOMY	Review	2022	43	2			98	10.1007/s12036-022-09869-w
309	Barua, PD; Vicnesh, J; Lih, OS; Palmer, EE; Yamakawa, T; Kobayashi, M; Acharya, UR	Artificial intelligence assisted tools for the detection of anxiety and depression leading to suicidal ideation in adolescents: a review	COGNITIVE NEURODYNAMICS	Review	2024	18	1	1	22		10.1007/s11571-022-09904-0
310	Akaishi, Y; Mokhtar, A; Shimoyoshi, M; Nohara, T; Inomata, Y; Kosumi, D; Fukaminato, T; Kida, T	Light-Stimulated Luminescence Control of Lead Halide-Based Perovskite Nanocrystals Coupled with Photochromic Molecules via Electron and Energy Transfer	SMALL	Article	2022	18	52				10.1002/smll.202205046
311	Hotta, T; McAlear, TS; Yue, Y; Higaki, T; Haynes, SE; Nesvizhskii, A; Sept, D; Verhey, KJ; Bechstedt, S; Ohi, R	EML2-S constitutes a new class of proteins that recognizes and regulates the dynamics of tyrosinated microtubules	CURRENT BIOLOGY	Article	2022	32	18	3898	+		10.1016/j.cub.2022.07.027
312	Zitouni, MS; Oh, SL; Vicnesh, J; Khandoker, A; Acharya, UR	Automated recognition of major depressive disorder from cardiovascular and respiratory physiological signals	FRONTIERS IN PSYCHIATRY	Article	2022	13				970993	10.3389/fpsyt.2022.970993
313	Subudhi, A; Dash, P; Mohapatra, M; Tan, RS; Acharya, UR; Sabut, S	Application of Machine Learning Techniques for Characterization of Ischemic Stroke with MRI Images: A Review	DIAGNOSTICS	Review	2022	12	10			2535	10.3390/diagnostics12102535
314	Shinkai, T; Masumoto, K; Iwai, M; Inomata, Y; Kida, T	Study on Sensing Mechanism of Volatile Organic Compounds Using Pt-Loaded ZnO Nanocrystals	SENSORS	Article	2022	22	16			6277	10.3390/s22166277
315	Ahmad, MS; Inomata, Y; Kida, T	Heterogenized manganese catalyst for C-, and N-alkylation of ketones and amines with alcohols by pyrolysis of molecularly defined complexes	MOLECULAR CATALYSIS	Article	2022	526				112390	10.1016/j.mcat.2022.112390
316	Sadak, O; Sadak, F; Yildirim, O; Iverson, NM; Qureshi, R; Talo, M; Ooi, CP; Acharya, UR; Gunasekaran, S; Alam, T	Electrochemical Biosensing and Deep Learning-Based Approaches in the Diagnosis of COVID-19: A Review	IEEE ACCESS	Review	2022	10		98633	98648		10.1109/ACCESS.2022.3207207

	Authors	Article Title	Source Title	Document Type	Publication Year	Volume	Issue	Start Page	End Page	Article Number	DOI
317	Saeki, K; Ikari, K; Yokoi, H; Ohira, SI; Okochi, H; Toda, K	Biogenic Diamines and Their Amide Derivatives Are Present in the Forest Atmosphere and May Play a Role in Particle Formation	ACS EARTH AND SPACE CHEMISTRY	Article	2022	6	2	421	430		10.1021/acsearthspacechem.1c00404
318	Matsuo, H; Utsunomiya, M; Noguchi, Y	Utilizing ferrorestorable polarization in energy-storage ceramic capacitors	NPG ASIA MATERIALS	Article	2022	14	1			80	10.1038/s41427-022-00426-z
319	Basak, A; Rahman, ATMS; Das, J; Hosono, T; Kisi, O	Drought forecasting using the Prophet model in a semi-arid climate region of western India	HYDROLOGICAL SCIENCES JOURNAL	Article	2022	67	9	1397	1417		10.1080/02626667.2022.2082876
320	Silva, AC; Ruiz-Ferrer, V; Müller, SY; Pellegrin, C; Abril-Urías, P; Martínez-Gómez, A; Gómez-Rojas, A; Berenguer, E; Testillano, PS; Andrés, MF; Fenoll, C; Eves-van Den Akker, S; Escobar, C	The DNA methylation landscape of the root-knot nematode-induced pseudo-organ, the gall, in Arabidopsis, is dynamic, contrasting over time, and critically important for successful parasitism	NEW PHYTOLOGIST	Article	2022	236	5	1888	1907		10.1111/nph.18395
321	Toda, H; Iwasaki, W; Morita, N; Motomura, T; Takemura, K; Nagano, M; Nakanishi, Y; Nakashima, Y	Reversible Thermo-Responsive Valve for Microfluidic Paper-Based Analytical Devices	MICROMACHINES	Article	2022	13	5			690	10.3390/mi13050690
322	Zhao, FC; Xiong, F; Cai, GC; Yan, HQ; Liu, Y; Larbi, AS	Performance and numerical modelling of full-scale demountable bolted PC wall panels subjected to cyclic loading	JOURNAL OF BUILDING ENGINEERING	Article	2023	63				105556	10.1016/j.jobe.2022.105556
323	Toma, T; Tateishi, H; Kawakami, K; Ali, TFS; Kamo, M; Monde, K; Nakashima, Y; Fujita, M; Otsuka, M	Novel Inhibitor for Downstream Targeting of Transforming Growth Factor-β Signaling to Suppress Epithelial to Mesenchymal Transition and Cell Migration	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	Article	2022	23	9			5047	10.3390/ijms23095047
324	Suzuki, R; Kanno, Y; Abril-Urias, P; Seo, M; Escobar, C; Tsai, AYL; Sawa, S	Local auxin synthesis mediated by YUCCA4 induced during root-knot nematode infection positively regulates gall growth and nematode development	FRONTIERS IN PLANT SCIENCE	Article	2022	13				1019427	10.3389/fpls.2022.1019427
325	Matsuo, H; Noguchi, Y	High Photocurrent Anisotropy in Domain-Engineered Ferroelectrics for Visible-Light Polarization Detection	ADVANCED OPTICAL MATERIALS	Article	2022	10	21			2201280	10.1002/adom.202201280
326	Sasaki, M; Manalu, HT; Kamogawa, R; Issasi, CSC; Quitain, AT; Kida, T	Fast and selective production of quercetin and saccharides from rutin using microwave-assisted hydrothermal treatment in the presence of graphene oxide	FOOD CHEMISTRY	Article	2023	405				134808	10.1016/j.foodchem.2022.134808
327	Gudigar, A; Raghavendra, U; Rao, TN; Samanth, J; Rajinikanth, V; Satapathy, SC; Ciaccio, EJ; Yee, CW; Acharya, UR	FFCAEs: An efficient feature fusion framework using cascaded autoencoders for the identification of gliomas	INTERNATIONAL JOURNAL OF IMAGING SYSTEMS AND TECHNOLOGY	Article	2023	33	2	483	494		10.1002/ima.22820
328	Iwasaki, W; Toda, H; Morita, N; Motomura, T; Fujio, Y; Takemura, K; Nakanishi, Y; Nakashima, Y	A thermoresponsive valve to control fluid flow in microfluidic paper-based devices	MICROFLUIDICS AND NANOFLUIDICS	Article	2022	26	6			47	10.1007/s10404-022-02552-0
329	Hosokawa, S; Bérar, JF; Boudet, N; Pilgrim, WC; Pusztai, L; Hiroi, S; Kohara, S; Kato, H; Fischer, HE; Zeidler, A	Relationship between atomic structure and excellent glass forming ability in Pd42.5Ni7.5Cu30P20 metallic glass	JOURNAL OF NON-CRYSTALLINE SOLIDS	Article	2022	596				121868	10.1016/j.jnoncrysol.2022.121868
330	Kwak, K; Okamura, Y; Mine, Y; Takashima, K; Koseki, S; Ando, S; Kuwabara, K	Micro-mechanical characterisation of slip behaviour and precipitation strengthening in CoCrFeNiTiMo alloy additively manufactured by laser powder bed fusion	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	Article	2022	840				142970	10.1016/j.msea.2022.142970
331	Wang, K; Bao, G; Fan, QQ; Zhu, LQ; Yang, LJ; Liu, TT; Zhang, ZC; Li, GN; Chen, XH; Xu, XB; Xu, XX; He, B; Zheng, YF	Feasibility evaluation of a Cu-38 Zn alloy for intrauterine devices: In vitro and in vivo studies	ACTA BIOMATERIALIA	Article	2022	138		561	575		10.1016/j.actbio.2021.11.006
332	Jahmunah, V; Koh, JEW; Sudarshan, VK; Raghavendra, U; Gudigar, A; Oh, SL; Loh, HW; Faust, O; Barua, PD; Ciaccio, EJ; Acharya, UR	Endoscopy, video capsule endoscopy, and biopsy for automated celiac disease detection: A review	BIOCYBERNETICS AND BIOMEDICAL ENGINEERING	Review	2023	43	1	82	108		10.1016/j.bbe.2022.12.002
333	Tampa, Y; Takagi, K; Ueki, S; Ohta, M; Mine, Y; Takashima, K	Comparative Study of Shear Fracture between Fe-based Amorphous and Ultrafine-grained Alloys Using Micro-tensile Testing	ISIJ INTERNATIONAL	Article	2022	62	8	1741	1749		10.2355/isijinternational.ISIJINT-2022-088
334	Hisano, S; Crawford, F; Bonidie, V; Alam, MF; Takahashi, K; Lorimer, DR; Ridley, JP; McLaughlin, MM; Perera, BBP	A Parkes Murriyang Search for Pulsars and Fast Transients in the Large Magellanic Cloud	ASTROPHYSICAL JOURNAL	Article	2022	928	2			161	10.3847/1538-4357/ac5802
335	Lee, KP; Baek, S; Yoon, MS; Park, JS; Hong, BS; Lee, SJ; Oh, SJ; Kwon, SH; Lee, R; Lee, DH; Park, KS; Moon, BS	Potential anticancer effect of aspirin and 2′-hydroxy-2,3,5′-trimethoxychalcone-linked polymeric micelles against cervical cancer through apoptosis	ONCOLOGY LETTERS	Article	2022	23	1			31	10.3892/ol.2021.13149
336	Suemune, T; Sonoda, K; Suzuki, S; Sato, H; Kusamoto, T; Ueda, A	Partially Oxidized Purely Organic Zwitterionic Neutral Radical Conductor: Multi-step Phase Transitions and Crossover Caused by Intra- and Intermolecular Electronic Interactions	JOURNAL OF THE AMERICAN CHEMICAL SOCIETY	Article; Early Access	2022						10.1021/jacs.2c08813
337	Yoshida, D; Akita, K; Higaki, T	Machine learning and feature analysis of the cortical microtubule organization of Arabidopsis cotyledon pavement cells	PROTOPLASMA	Article	2023	260	3	987	998		10.1007/s00709-022-01813-7
338	Noguchi, Y; Matsuo, H	Ferroelectric polarization of tetragonal BiFeO3-an approach from DFT calculations for BiFeO3-BaTiO3 superlattices-	JAPANESE JOURNAL OF APPLIED PHYSICS	Article	2022	61	SN			SN1002	10.35848/1347-4065/ac7bd2
339	Houstin, A; Zitterbart, DP; Winterl, A; Richter, S; Planas-Bielsa, V; Chevallier, D; Ancel, A; Fournier, J; Fabry, B; Le Bohec, C	Biologging of emperor penguins-Attachment techniques and associated deployment performance	PLOS ONE	Article	2022	17	8			e0265849	10.1371/journal.pone.0265849
340	Hotta, T; Lee, YRJ; Higaki, T; Hashimoto, T; Liu, B	Two Kinesin-14A Motors Oligomerize to Drive Poleward Microtubule Convergence for Acentrosomal Spindle Morphogenesis in Arabidopsis thaliana	FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY	Article	2022	10				949345	10.3389/fcell.2022.949345
341	Bako, I; Pusztai, L; Pothoczki, S	Topological descriptors and Laplace spectra in simple hydrogen bonded systems	JOURNAL OF MOLECULAR LIQUIDS	Article	2022	363				119860	10.1016/j.molliq.2022.119860
342	Takamori, Y; Naruko, A; Sakurai, Y; Takahashi, K; Yamauchi, D; Yoo, CM	Testing the non-circularity of the spacetime around Sagittarius A* with orbiting pulsars	PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN	Article	2023	75		S217	S231		10.1093/pasj/psac003
343	Wang, YL; Cai, GC	Seismic behavior of square concrete columns confined by FRP-steel composite tube	JOURNAL OF BUILDING ENGINEERING	Article	2023	65				105754	10.1016/j.jobe.2022.105754
344	Kam, YL; Agutaya, JKCN; Quitain, AT; Ogasawara, Y; Sasaki, M; Lam, MK; Yusup, S; Assabumrungrat, S; Kida, T	In-situ transesterification of microalgae using carbon-based catalyst under pulsed microwave irradiation	BIOMASS & BIOENERGY	Article	2023	168				106662	10.1016/j.biombioe.2022.106662
345	Matsuo, H; Noguchi, Y	High-quality ferroelectric Bi0.5K0.5TiO3-BiFeO3 solid-solution single crystals grown under high-pressure oxygen atmosphere	APPLIED PHYSICS EXPRESS	Article	2022	15	8			81002	10.35848/1882-0786/ac7eab

	Authors	Article Title	Source Title	Document Type	Publication Year	Volume	Issue	Start Page	End Page	Article Number	DOI
346	Kumamoto, S; Fukuyama, S; Nagano, S; Yasuda, K; Kitamura, Y; Iwatsuki, M; Baba, H; Ihara, T; Nakanishi, Y; Nakashima, Y	Fabrication of Three-Dimensionally Deformable Metal Structures Using Precision Electroforming	MICROMACHINES	Article	2022	13	7			1046	10.3390/mi13071046
347	Abdellah, WR; Hirohama, C; Sainoki, A; Towfeek, AR; Ali, MAM	Estimating the Optimal Overall Slope Angle of Open-Pit Mines with Probabilistic Analysis	APPLIED SCIENCES-BASEL	Article	2022	12	9			4746	10.3390/app12094746
348	Nakamasu, AM	Correspondences Between Parameters in a Reaction-Diffusion Model and Connexin Functions During Zebrafish Stripe Formation	FRONTIERS IN PHYSICS	Article	2022	9				805659	10.3389/fphy.2021.805659
349	Yoo, CM; Naruko, A; Sakurai, Y; Takahashi, K; Takamori, Y; Yamauchi, D	Axion cloud decay due to the axion-photon conversion with background magnetic fields	PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN	Article	2022	74	1	64	72		10.1093/pasj/psab110
350	Cooray, S; Takeuchi, TT; Ideguchi, S; Akahori, T; Miyashita, Y; Takahashi, K	Wavelets and sparsity for Faraday tomography	PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN	Article	2023	75		S85	S96		10.1093/pasj/psac052
351	Deschaseaux, ESM; Swan, HB; Maher, DT; Jones, GB; Schulz, KG; Koveke, EP; Toda, K; Eyre, BD	The Interplay Between Dimethyl Sulfide (DMS) and Methane (CH4) in a Coral Reef Ecosystem	FRONTIERS IN MARINE SCIENCE	Article	2022	9				910441	10.3389/fmars.2022.910441
352	Takeuchi, M; Tomiyasu, N; Namikawa, M; Tanaka, H; Toda, K; Katsumi, N; Okochi, H	On-line analysis of free-tropospheric water-soluble acidic gases and particulate anions on the summit of Mt. Fuji, Japan	ATMOSPHERIC ENVIRONMENT	Article	2022	273				118977	10.1016/j.atmosenv.2022.118977
353	Ideguchi, S; Inoue, T; Akahori, T; Takahashi, K	On the potential of faraday tomography to identify shock structures in supernova remnants	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	Article	2022	513	3	3289	3301		10.1093/mnras/stac1086
354	Takeda, S; Hamamura, Y; Sakamoto, T; Kimura, S; Aida, M; Higashiyama, T	Non-cell-autonomous regulation of petal initiation in Arabidopsis thaliana	DEVELOPMENT	Article	2022	149	17			dev200684	10.1242/dev.200684
355	Yamada, M; Tanaka, S; Miyazaki, T; Aida, M	Expression of the auxin biosynthetic genes YUCCA1 and YUCCA4 is dependent on the boundary regulators CUP-SHAPED COTYLEDON genes in the Arabidopsis thaliana embryo	PLANT BIOTECHNOLOGY	Article	2022	39	1	37	42		10.5511/plantbiotechnology.21.0924a
356	Hague, MA; Toda, K; Ohire, SI	Electrodialytic Universal Synthesis of Highly Pure and Mixed Ionic Liquids	ACS OMEGA	Article	2022	7	25	21925	21931		10.1021/acsomega.2c02209
357	Morotomi-Yano, K; Hiromoto, Y; Higaki, T; Yano, KI	Disease-associated H58Y mutation affects the nuclear dynamics of human DNA topoisomerase IIβ	SCIENTIFIC REPORTS	Article	2022	12	1			20627	10.1038/s41598-022-24883-2
358	Su, QW; Cai, GC; Hani, M; Larbi, AS; Tsavdaridis, KD	Damage control of the masonry infills in RC frames under cyclic loads: a full-scale test study and numerical analyses	BULLETIN OF EARTHQUAKE ENGINEERING	Article	2023	21	2	1017	1045		10.1007/s10518-022-01565-y
359	Kuwahara, Y; Ito, M; Iwamoto, T; Takafuji, M; Ihara, H; Ryu, N; Mani, T	Chemical redox-induced chiroptical switching of supramolecular assemblies of viologens	RSC ADVANCES	Article	2022	12	4	2019	2025		10.1039/d1ra08984f
360	Takihara, Y; Higaki, T; Yokomizo, T; Umemoto, T; Ariyoshi, K; Hashimoto, M; Sezaki, M; Takizawa, H; Inoue, T; Suda, T; Mizuno, H	Bone marrow imaging reveals the migration dynamics of neonatal hematopoietic stem cells	COMMUNICATIONS BIOLOGY	Article	2022	5	1			776	10.1038/s42003-022-03733-x
361	Temleitner, L; Pusztai, L; Cuello, GJ; Stunault, A	Structural studies of 1H-containing liquids by polarized neutrons: Chemical environment and wavelength dependence of the incoherent background	JOURNAL OF MOLECULAR LIQUIDS	Article	2022	350				118535	10.1016/j.molliq.2022.118535
362	Kerber, M; Waitz, T; Matsuda, M	Structural changes of TiPt high-temperature shape memory alloys induced by high pressure torsion	JOURNAL OF ALLOYS AND COMPOUNDS	Article	2023	935				168037	10.1016/j.jallcom.2022.168037
363	Pudza, I; Anspoks, A; Aquilanti, G; Kuzmin, A	Revealing the local structure of CuMo1_xWxO4 solid solutions by multi-edge X-ray absorption spectroscopy	MATERIALS RESEARCH BULLETIN	Article	2022	153				111910	10.1016/j.materresbull.2022.111910
364	Noguchi, Y; Matsuo, H	Origin of Ferroelectricity in BiFeO3-Based Solid Solutions	NANOMATERIALS	Article	2022	12	23			4163	10.3390/nano12234163
365	Mizota, C; Hosono, T; Okumura, A; Yamanaka, T	Nitrogen cycling in western India as revealed by nitrogen isotopes, and the historic production of saltpetre	ARCHAEOMETRY	Article	2023	65	3	635	652		10.1111/arcm.12830
366	Sudarshan, VK; Raghavendra, U; Gudigar, A; Ciaccio, EJ; Vijayananthan, A; Sahathevan, R; Acharya, UR	Assessment of CT for the categorization of hemorrhagic stroke (HS) and cerebral amyloid angiopathy hemorrhage (CAAH): A review	BIOCYBERNETICS AND BIOMEDICAL ENGINEERING	Review	2022	42	3	888	901		10.1016/j.bbe.2022.07.001
367	Wang, JH; Sun, YP	Seismic Safety and Post-Earthquake Resilience of Frame with Debonded High-Strength Reinforced Concrete-Encased-and-Filled Steel Tubular Columns	JOURNAL OF EARTHQUAKE ENGINEERING	Article	2023	27	13	3632	3657		10.1080/13632469.2022.2141372
368	Pothoczki, S; Pusztai, L	On the Temperature- and Pressure-Dependent Structure of Liquid Phosphorus: A Reverse Monte Carlo Study	PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS	Article	2022	259	9			2200082	10.1002/pssb.202200082
369	Hosono, T; Nakashima, S; Tanoue, M; Ichiyanagi, K	Monsoon climate controls metal loading in global hotspot region of transboundary air pollution	SCIENTIFIC REPORTS	Article	2022	12	1				10.1038/s41598-022-15066-0
370	Nishi, M; Tanaka, S; Mori, A; Vesenjak, M; Ren, ZR; Hokamoto, K	Mechanism Elucidation of High-Pressure Generation in Cellular Metal at High-Velocity Impact	METALS	Article	2022	12	1			128	10.3390/met12010128
371	Ueki, S; Koga, K; Mine, Y; Takashima, K	Crystallographic Characterisation of Hydrogen-induced Twin Boundary Separation in Type 304 Stainless Steel Using Micro-tensile Testing	TETSU TO HAGANE-JOURNAL OF THE IRON AND STEEL INSTITUTE OF JAPAN	Article	2022	108	1	97	106		10.2355/tetsutohagane.TETSU-2021-086
372	Kikunaga, T; Hisano, S; Kumamoto, H; Takahashi, K	Constraints on ultra-low-frequency gravitational waves from an eccentric supermassive black hole binary	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	Article	2022	509	4	5188	5196		10.1093/mnras/stab3345
373	Loh, HW; Ooi, CP; Seoni, S; Barua, PD; Molinari, F; Acharya, UR	Application of explainable artificial intelligence for healthcare: A systematic review of the last decade (2011-2022)	COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE	Review	2022	226				107161	10.1016/j.cmpb.2022.107161
374	Loh, HW; Xu, ST; Faust, O; Ooi, CP; Barua, PD; Chakraborty, S; Tan, RS; Molinari, F; Acharya, UR	Application of photoplethysmography signals for healthcare systems: An in-depth review	COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE	Review	2022	216				106677	10.1016/j.cmpb.2022.106677
375	Loh, HW; Ooi, CP; Barua, PD; Palmer, EE; Molinari, F; Acharya, UR	Automated detection of ADHD: Current trends and future perspective	COMPUTERS IN BIOLOGY AND MEDICINE	Article	2022	146				105525	10.1016/j.compbiomed.2022.105525
376	Forero, JAJ; Tran, THT; Tana, T; Baker, A; Beltramini, J; Doherty, WOS; Moghaddam, L	Hydrothermal liquefaction of sugarcane bagasse to bio-oils: Effect of liquefaction solvents on bio-oil stability	FUEL	Article	2022	312				122793	10.1016/j.fuel.2021.122793
377	Sharma, I; Rackemann, D; Ramirez, J; Cronin, DJ; Moghaddam, L; Beltramini, JN; Te'o, J; Li, K; Shi, CR; Doherty, WOS	Exploring the potential for biomethane production by the hybrid anaerobic digestion and hydrothermal gasification process: A review	JOURNAL OF CLEANER PRODUCTION	Review	2022	362				132507	10.1016/j.jclepro.2022.132507

	Authors	Article Title	Source Title	Document Type	Publication Year	Volume	Issue	Start Page	End Page	Article Number	DOI
378	Zhang, LH; Yang, Y; Mu, CQ; Liu, MY; Ishida, T; Sawa, S; Zhu, YX; Pi, LM	Control of Root Stem Cell Differentiation and Lateral Root Emergence by CLE16/17 Peptides in Arabidopsis	FRONTIERS IN PLANT SCIENCE	Article	2022	13				869888	10.3389/fpls.2022.869888
379	Micoulaut, M; Pethes, ; Jóvári, P; Pusztai, L; Krbal, M; Wágner, T; Prokop, ; Michalik, S; Ikeda, K; Kaban,	Structural properties of chalcogenide glasses and the isocoordination rule: Disentangling effects from chemistry and network topology	PHYSICAL REVIEW B	Article	2022	106	1			14206	10.1103/PhysRevB.106.014206
380	Forero, JAJ; Deshan, ADK; Beltramini, J; Bartley, J; Estrounina, E; Doherty, WOS	Closing the loop: Valorizing pyrolyzed waste tyre residue into functional carbon materials, SiO2 with exceptionally high silanol groups, and Zn salt	WASTE MANAGEMENT	Article	2022	140		110	120		10.1016/j.wasman.2022.01.018
381	Olivier, C; Nagatomo, N; Mori, T; McClenaghan, N; Jonusauskas, G; Kauffmann, B; Kuwahara, Y; Takafuji, M; Ihara, H; Ferrand, Y	A π-extended phenanthrene-fused aza[7]helicenium as a novel chiroptically-active architecture in organic and aqueous media	ORGANIC CHEMISTRY FRONTIERS	Article	2023	10	3	752	758		10.1039/d2qo01942f
382	Nishimura, T; Mori, S; Shikata, H; Nakamura, M; Hashiguchi, Y; Abe, Y; Hagihara, T; Yoshikawa, HY; Toyota, M; Higaki, T; Morita, MT	Cell polarity linked to gravity sensing is generated by LZY translocation from statoliths to the plasma membrane	SCIENCE	Article	2023	381	6661	1006	1010		10.1126/science.adh9978
383	Oztekin, F; Katar, O; Sadak, F; Yildirim, M; Cakar, H; Aydogan, M; Ozpolat, Z; Yildirim, TT; Yildirim, O; Faust, O; Acharya, UR	An Explainable Deep Learning Model to Prediction Dental Caries Using Panoramic Radiograph Images	DIAGNOSTICS	Article	2023	13	2			226	10.3390/diagnostics13020226
384	Chen, XH; Chang, R; Liu, HT; Zhang, L; Zheng, YF	Moving research direction in the field of metallic bioresorbable stents-A mini-review	BIOACTIVE MATERIALS	Review	2023	24		20	25		10.1016/j.bioactmat.2022.12.004
385	Garg, M; Rani, R; Meena, VK; Singh, S	Significance of 3D printing for a sustainable environment	MATERIALS TODAY SUSTAINABILITY	Article	2023	23				100419	10.1016/j.mtsust.2023.100419
386	Zheng, YF; Liu, X; Shen, DN; Li, WT; Cheng, Y; Yang, M; Kou, YH; Jiang, BG	Perceiving the connection between the bone healing process and biodegradation of biodegradable metal implants through precise bioadaptability principle	JOURNAL OF MATERIALS SCIENCE & TECHNOLOGY	Review	2023	147		132	144		10.1016/j.jmst.2022.12.004
387	Ahmad, MS; Inomata, Y; Kida, T	Energy Application of Graphene Based Membrane: Hydrogen Separation	CHEMICAL RECORD	Review	2024	24	1				10.1002/tcr.202300163
388	Raghavendra, U; Gudigar, A; Paul, A; Goutham, TS; Inamdar, MA; Hegde, A; Devi, A; Ooi, CP; Deo, RC; Barua, PD; Molinari, F; Ciaccio, EJ; Acharya, UR	Brain tumor detection and screening using artificial intelligence techniques: Current trends and future perspectives	COMPUTERS IN BIOLOGY AND MEDICINE	Article	2023	163				107063	10.1016/j.compbiomed.2023.107063
389	Ashraf, M; Ali, R; Khan, I; Ullah, N; Ahmad, MS; Kida, T; Wooh, S; Tremel, W; Schwingenschlögl, U; Tahir, MN	Bandgap Engineering of Melon using Highly Reduced Graphene Oxide for Enhanced Photoelectrochemical Hydrogen Evolution	ADVANCED MATERIALS	Article	2023	35	47				10.1002/adma.202301342
390	Ullah, S; Wang, SY; Ahmad, MS; Sharif, HMA; Liu, QL; Kida, T; Shafique, A; Rehman, MU; Wang, G; Qiu, JS	Investigating the role of oxygen vacancies in metal oxide for enhanced electrochemical reduction of NO3- to NH3: mechanistic insights	INORGANIC CHEMISTRY FRONTIERS	Review	2023	10	22	6440	6488		10.1039/d3qi01536j
391	Jahmunah, V; Chen, SY; Oh, SL; Acharya, UR; Chowbay, B	Automated warfarin dose prediction for Asian, American, and Caucasian populations using a deep neural network	COMPUTERS IN BIOLOGY AND MEDICINE	Article	2023	153				106548	10.1016/j.compbiomed.2023.106548
392	Long, LX; Chen, FF; Cui, LY; Wei, ZS; Wang, HT; Zeng, RC; Zheng, YF	Comparison of microstructure, mechanical property, and degradation rate of Mg-1Li-1Ca and Mg-4Li-1Ca alloys	BIOACTIVE MATERIALS	Article	2023	26		279	291		10.1016/j.bioactmat.2023.02.030
393	Aso, S; Matsuo, H; Noguchi, Y	Reversible electric-field-induced phase transition in Ca-modified NaNbO3 perovskites for energy storage applications	SCIENTIFIC REPORTS	Article	2023	13	1			6771	10.1038/s41598-023-33975-6
394	Mohan, TVR; Nallagangula, M; Kala, K; Hernandez-Tamargo, CE; De Leeuw, NH; Namitharan, K; Bhat, VT; Sasidharan, M; Selvam, P	Pyridinic-nitrogen on ordered mesoporous carbon: A versatile NAD(P)H mimic for borrowing-hydrogen reactions	JOURNAL OF CATALYSIS	Article	2023	419		80	98		10.1016/j.jcat.2023.02.005
395	Su, ZN; Yao, CC; Tipper, J; Yang, LJ; Xu, XB; Chen, XH; Bao, G; He, B; Xu, XX; Zheng, YF	Nanostrategy of Targeting at Embryonic Trophoblast Cells Using CuO Nanoparticles for Female Contraception	ACS NANO	Article	2023	17	24	25185	25204		10.1021/acsnano.3c08267
396	Yamada, H; Ohara, K; Hiroi, S; Sakuda, A; Ikeda, K; Ohkubo, T; Nakada, K; Tsukasaki, H; Nakajima, H; Temleitner, L; Pusztai, L; Ariga, S; Matsuo, A; Ding, J; Nakano, T; Kimura, T; Kobayashi, R; Usuki, T; Tahara, S; Amezawa, K; Tateyama, Y; Mori, S; Hayashi, A	Lithium Ion Transport Environment by Molecular Vibrations in Ion-Conducting Glasses	ENERGY & ENVIRONMENTAL MATERIALS	Article	2024	7	3			e12612	10.1002/eem2.12612
397	Wang, SF; Liu, TT; Nan, N; Lu, C; Liang, M; Wang, SY; Wang, H; He, B; Chen, XH; Xu, XB; Zheng, YF	Exosomes from Human Umbilical Cord Mesenchymal Stem Cells Facilitates Injured Endometrial Restoring in Early Repair Period through miR-202-3p Mediating Formation of ECM	STEM CELL REVIEWS AND REPORTS	Article	2023	19	6	1954	1964		10.1007/s12015-023-10549-7
398	Nakagami, S; Aoyama, T; Sato, Y; Kajiwara, T; Ishida, T; Sawa, S	CLE3 and its homologs share overlapping functions in the modulation of lateral root formation through CLV1 and BAM1 in Arabidopsis thaliana	PLANT JOURNAL	Article	2023	113	6	1176	1191		10.1111/tpj.16103
399	Noureddine, Y; da Rocha, M; An, J; Médina, C; Mejias, J; Mulet, K; Quentin, M; Abad, P; Zouine, M; Favery, B; Jaubert-Possamai, S	AUXIN RESPONSIVE FACTOR8 regulates development of the feeding site induced by root-knot nematodes in tomato	JOURNAL OF EXPERIMENTAL BOTANY	Article	2023	74	18	5752	5766		10.1093/jxb/erad208
400	Hapid, A; Zullaikah, S; Mahfud; Kawigraha, A; Sudiyanto, Y; Nareswari, RB; Quitain, AT	Oxidation of sulfide mineral and metal extraction analysis in the microwave-assisted roasting pretreatment of refractory gold ore	ARABIAN JOURNAL OF CHEMISTRY	Article	2024	17	1			105447	10.1016/j.arabjc.2023.105447
401	Jia, QY; Jia, QG; Zhu, SJ; Zheng, YF; Mine, Y; Takashima, K; Guan, SK	A promoting nitric oxide-releasing coating containing copper ion on ZE21B alloy for potential vascular stent application	JOURNAL OF MAGNESIUM AND ALLOYS	Article	2023	11	12	4542	4561		10.1016/j.jma.2022.08.004
402	Srivastava, A; Desai, S; Kolhe, N; Surnis, M; Joshi, BC; Susobhanan, A; Chalumeau, A; Hisano, S; Nobleson, K; Arumugam, S; Kharbanda, D; Singha, J; Tarafdar, P; Arumugam, P; Bagchi, M; Bathula, A; Dandapat, S; Dey, L; Dwivedi, C; Girgaonkar, R; Gopakumar, A; Gupta, Y; Kikunaga, T; Krishnakumar, MA; Liu, K; Maan, Y; Manoharan, PK; Paladi, AK; Rana, P; Shaifullah, GM; Takahashi, K	Noise analysis of the Indian Pulsar Timing Array data release I	PHYSICAL REVIEW D	Article	2023	108	2			23008	10.1103/PhysRevD.108.023008
403	Ueki, S; Mine, Y; Chiu, YL; Bowen, P; Takashima, K	Effects of crystallographic orientation and lamellar configuration on fatigue crack propagation in single-colony structures of Ti-6Al-4V alloy: Alternating shear crack growth vs. damage accumulation crack propagation	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	Article	2024	890				145885	10.1016/j.msea.2023.145885
404	Hermawan, OR; Hosono, T; Yasumoto, J; Yasumoto, K; Song, KH; Maruyama, R; Iijima, M; Yasumoto-Hirose, M; Takada, R; Hijikawa, K; Shinjo, R	Effective use of farmland soil samples for N and O isotopic source fingerprinting of groundwater nitrate contamination in the subsurface dammed limestone aquifer, Southern Okinawa Island, Japan	JOURNAL OF HYDROLOGY	Article	2023	619				129364	10.1016/j.jhydrol.2023.129364

	Authors	Article Title	Source Title	Document Type	Publication Year	Volume	Issue	Start Page	End Page	Article Number	DOI
405	Zhang, Z; Jiang, LS; Li, CA; Zhao, Y; Sainoki, A; Gong, XL	Characteristics and mechanism of time on sand powder 3D printing rock analogue: a new method for fractured rock mechanics	GEOMECHANICS AND GEOPHYSICS FOR GEO-ENERGY AND GEO-RESOURCES	Article	2023	9	1			166	10.1007/s40948-023-00707-z
406	Saito, Y; Fujiwara, Y; Miyamoto, Y; Ohnishi, K; Nakashima, Y; Tabata, Y; Baba, H; Komohara, Y	CD169+ sinus macrophages in regional lymph nodes do not predict mismatch-repair status of patients with colorectal cancer	CANCER MEDICINE	Article	2023	12	9	10199	10211		10.1002/cam4.5747
407	Schwartzkopff, AK; Sainoki, A; Bruning, T; Karakus, M	A conceptual three-dimensional frictional model to predict the effect of the intermediate principal stress based on the Mohr-Coulomb and Hoek-Brown failure criteria	INTERNATIONAL JOURNAL OF ROCK MECHANICS AND MINING SCIENCES	Article	2023	172				105605	10.1016/j.ijrmms.2023.105605
408	Kala, K; Gupta, S; Bhat, VT; Sasidharan, M; Selvam, P; Malini, TP	TiO2 (P25) nanoparticle catalyzed C-alkylation and quinoline synthesis via the borrowing hydrogen method	NEW JOURNAL OF CHEMISTRY	Article	2023	47	18	8751	8758		10.1039/d3nj00460k
409	Sonda, K; Kodama, T; Siga, MDW; Masumoto, K; Iwai, M; Fadil, M; Ahmad, MS; Agutaya, JKC; Inomata, Y; Quitain, AT; Hardiansyah, A; Kida, T	Selective Detection of CO Using Proton-Conducting Graphene Oxide Membranes with Pt-Doped SnO2 Electrocatalysts: Mechanistic Study by Operando DRIFTS	ACS APPLIED MATERIALS & INTERFACES	Article	2023	15	45	52724	52734		10.1021/acsami.3c10349
410	Nakagami, S; Notaguchi, M; Kondo, T; Okamoto, S; Ida, T; Sato, Y; Higashiyama, T; Tsai, AYL; Ishida, T; Sawa, S	Root-knot nematode modulates plant CLE3-CLV1 signaling as a long-distance signal for successful infection	SCIENCE ADVANCES	Article	2023	9	22			eadf4803	10.1126/sciadv.adf4803
411	Tsuji, M; Abuhadba, S; Chen, A; Ito, M; Makhijani, A; Kuwahara, Y; Esipova, T; Mani, T	Red-Colored Circularly Polarized Luminescence from a Benzo-Fused BODIPY-BINOL Complex	JOURNAL OF PHYSICAL CHEMISTRY B	Article	2023	127	45	9781	9787		10.1021/acs.jpcb.3c05496
412	Wint, H; Li, JZ; Abe, T; Yamada, H; Higaki, T; Nasu, Y; Watanabe, M; Takei, K; Takeda, T	Pacsin 2-dependent N-cadherin internalization regulates the migration behaviour of malignant cancer cells	JOURNAL OF CELL SCIENCE	Article	2023	136	10			jcs260827	10.1242/jcs.260827
413	Molodov, KD; Al-Samman, T; Molodov, DA	On the Plasticity and Deformation Mechanisms in Magnesium Crystals	METALS	Article	2023	13	4			640	10.3390/met13040640
414	Yue, Y; Hotta, T; Higaki, T; Verhey, KJ; Ohi, R	Microtubule detyrosination by VASH1/SVBP is regulated by the conformational state of tubulin in the lattice	CURRENT BIOLOGY	Article	2023	33	19	4111	+		10.1016/j.cub.2023.07.062
415	Ahmad, MS; Nagata, Y; Masumoto, K; Inomata, Y; Hatakeyama, K; Quitain, AT; Shotipruk, A; Kida, T	Manganese doped graphene oxide: Selective hydrogenation catalyst for converting 5-hydroxymethyl furfural to 5-methyl furfural	MOLECULAR CATALYSIS	Article	2024	553				113787	10.1016/j.mcat.2023.113787
416	Matsuo, H; Noguchi, Y	Impact of Mn doping on the ferroelectric photovoltaic effect in multidomain BiFeO3 thin films under above-bandgap illumination	JAPANESE JOURNAL OF APPLIED PHYSICS	Article	2023	62	SM			SM1011	10.35848/1347-4065/ace5b6
417	Brandenburg, JE; Barrales-Mora, LA; Tsurekawa, S; Molodov, DA	Dynamic behavior of grain boundaries with misorientations in the vicinity of S3 coherent and incoherent twin boundaries in Al bicrystals	ACTA MATERIALIA	Article	2023	259				119272	10.1016/j.actamat.2023.119272
418	Reyes-Olalde, JI; Aida, M; de Folter, S	An evo-devo view of the gynoecium	JOURNAL OF EXPERIMENTAL BOTANY	Review	2023	74	14	3933	3950	erad135	10.1093/jxb/erad135
419	Tanabe, M; Sato, K; Uda, T; Kobayashi, M	Thin, flexible, and biocompatible medical ultrasound array transducer using a sol-gel composite spray technique	JAPANESE JOURNAL OF APPLIED PHYSICS	Article	2023	62	SJ			SJ1034	10.35848/1347-4065/acbc27
420	Kikukawa, K; Takigawa-Imamura, H; Soga, K; Kotake, T; Higaki, T	Smooth Elongation of Pavement Cells Induced by RIC1 Overexpression Leads to Marginal Protrusions of the Cotyledon in Arabidopsis thaliana	PLANT AND CELL PHYSIOLOGY	Article	2023	64	11	1356	1371		10.1093/pcp/pcad094
421	Wang, JH; Du, DF; Su, C	Seismic fragility and post-earthquake reparability of concrete encased-and-filled steel tubular bridges columns with debonded high-strength reinforcements	BULLETIN OF EARTHQUAKE ENGINEERING	Article	2023	21	10	4877	4904		10.1007/s10518-023-01727-6
422	Oota, M; Toyoda, S; Kotake, T; Wada, N; Hashiguchi, M; Akashi, R; Ishikawa, H; Favery, B; Tsai, AYL; Sawa, S	Rhamnogalacturonan-I as a nematode chemoattractant from Lotus corniculatus L. super-growing root culture	FRONTIERS IN PLANT SCIENCE	Article	2023	13				1008725	10.3389/fpls.2022.1008725
423	Erten, M; Aydemir, E; Barua, PD; Baygin, M; Dogan, S; Tuncer, T; Tan, RS; Hafeez-Baig, A; Acharya, UR	Novel tiny textural motif pattern-based RNA virus protein sequence classification model	EXPERT SYSTEMS WITH APPLICATIONS	Article	2024	242				122781	10.1016/j.eswa.2023.122781
424	Takahashi, K	Introduction to Faraday tomography and its future prospects	PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN	Review	2023	75		S50	S84		10.1093/pasj/psac111
425	Pethes, I; Pusztai, L; Temleitner, L	Evolution of the hydrogen-bonded network in methanol-water mixtures upon cooling	JOURNAL OF MOLECULAR LIQUIDS	Article	2023	386				122494	10.1016/j.molliq.2023.122494
426	Feng, H; Jiang, LS; Wang, QW; Tang, P; Sainoki, A; Mitri, HS	Effect of surface retaining elements on rock stability: laboratory investigation with sand powder 3D printing	INTERNATIONAL JOURNAL OF COAL SCIENCE & TECHNOLOGY	Article	2023	10	1			46	10.1007/s40789-023-00607-3
427	Adhikari, PB; Zhu, SW; Liu, XY; Huang, C; Xie, LY; Wu, XY; He, JL; Mitsuda, N; Peters, B; Brownfield, L; Nagawa, S; Kasahara, RD	Discovery of a cis-regulatory element SaeM involved in dynamic regulation of synergid-specific MYB98	FRONTIERS IN PLANT SCIENCE	Article	2023	14				1177058	10.3389/fpls.2023.1177058
428	Bissa, K; Al-Samman, T; Molodov, DA	Deformation behaviour of magnesium bicrystals with symmetrical 90 ° 11 2 over bar 0 tilt grain boundaries analysed by large area EBSD mapping	JOURNAL OF MAGNESIUM AND ALLOYS	Article	2023	11	5	1556	1566		10.1016/j.jma.2023.03.009
429	Hirano, T; Ebine, K; Ueda, T; Higaki, T; Watanabe-Nakayama, T; Konno, H; Takigawa-Imamura, H; Sato, MH	The SYP123-VAMP727 SNARE complex delivers secondary cell wall components for root hair shank hardening in Arabidopsis	PLANT CELL	Article	2023	35	12	4347	4365		10.1093/plcell/koad240
430	Hosono, T; Taniguchi, K; Rahman, ATMS; Yamamoto, T; Takayama, K; Yu, ZQ; Aihara, T; Ikehara, T; Amano, H; Tanimizu, M; Nakagawa, K	Stable N and O isotopic indicators coupled with social data analysis revealed long-term shift in the cause of groundwater nitrate pollution: Insights into future water resource management	ECOLOGICAL INDICATORS	Article	2023	154				110670	10.1016/j.ecolind.2023.110670
431	Hermawan, OR; Hosono, T; Yasumoto, J; Yasumoto, K; Song, KH; Maruyama, R; Iijima, M; Yasumoto-Hirose, M; Takada, R; Hijikawa, K; Shinjo, R	Mechanism of denitrification in subsurface-dammed Ryukyu limestone aquifer, southern Okinawa Island, Japan	SCIENCE OF THE TOTAL ENVIRONMENT	Article	2024	912				169457	10.1016/j.scitotenv.2023.169457
432	Kumar, MA; Selvam, P	Ionic Liquid Templated Ordered Hexagonal Mesoporous Iron Phosphate Molecular Sieves: A Highly Effective Heterogeneous Catalysts with Remarkable Selectivity for Phenol Hydroxylation Reaction	CHEMISTRY-AN ASIAN JOURNAL	Article	2023	18	14				10.1002/asia.202300389
433	Kilic, M; Barua, PD; Keles, T; Yildiz, AM; Tuncer, I; Dogan, S; Baygin, M; Tuncer, T; Kuluozturk, M; Tan, RS; Acharya, UR	GCLP: An automated asthma detection model based on global chaotic logistic pattern using cough sounds	ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE	Article	2024	127				107184	10.1016/j.engappai.2023.107184

	Authors	Article Title	Source Title	Document Type	Publication Year	Volume	Issue	Start Page	End Page	Article Number	DOI
434	Yildiz, AM; Tanabe, M; Kobayashi, M; Tuncer, I; Barua, PD; Dogan, S; Tuncer, T; Tan, RS; Acharya, UR	FF-BTP Model for Novel Sound-Based Community Emotion Detection	IEEE ACCESS	Article	2023	11		108705	108715		10.1109/ACCESS.2023.3318751
435	Cai, Z; Islam, MS; Fukuzaki, M; Rahman, MA; Matsuda, J; Zhang, ZY; Sekine, Y; Bateer, B; Hayami, S	Cu2NiSnS4 Nanoparticles Supported on rGO for Dual Frequency Range Electromagnetic Shielding	ACS APPLIED NANO MATERIALS	Article	2023	6	23	21980	21990		10.1021/acsanm.3c04196
436	Ryu, N; Yamamoto, Y; Okazaki, Y; Hano, N; Iwamoto, Y; Shirosaki, T; Nagaoka, S; Oda, R; Ihara, H; Takafuji, M	Controlled packing of chiral assembly scaffolds to promote chiral J-aggregation of carbocyanine dyes	CHEMICAL COMMUNICATIONS	Article	2023	59	80	11979	11982		10.1039/d3cc03394e
437	Hiromoto, Y; Minamino, N; Kikuchi, S; Kimata, Y; Matsumoto, H; Nakagawa, S; Ueda, M; Higaki, T	Comprehensive and quantitative analysis of intracellular structure polarization at the apical-basal axis in elongating Arabidopsis zygotes	SCIENTIFIC REPORTS	Article	2023	13	1			22879	10.1038/s41598-023-50020-8
438	Takatsuka, H; Higaki, T; Ito, M	At the Nexus between Cytoskeleton and Vacuole: How Plant Cytoskeletons Govern the Dynamics of Large Vacuoles	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	Review	2023	24	4			4143	10.3390/ijms24044143
439	Matsumoto, T; Higaki, T; Takatsuka, H; Kutsuna, N; Ogata, Y; Hasezawa, S; Umeda, M; Inada, N	Arabidopsis thaliana Subclass I ACTIN DEPOLYMERIZING FACTORs Regulate Nuclear Organization and Gene Expression	PLANT AND CELL PHYSIOLOGY	Article	2023	64	10	1231	1242		10.1093/pcp/pcad092
440	Toda, K; Obolkin, V; Ohira, SI; Saeki, K	Abundant production of dimethylsulfoniopropionate as a cryoprotectant by freshwater phytoplanktonic dinoflagellates in ice-covered Lake Baikal	COMMUNICATIONS BIOLOGY	Article	2023	6	1			1194	10.1038/s42003-023-05573-9
441	Mohan, N; Kumar, SS; Soman, KP; Sujadevi, VG; Poornachandran, P; Acharya, UR	A Data-Driven Hybrid Methodology Using Randomized Low-Rank DMD Approximation and Flat-Top FIR Filter for Voltage Fluctuations Monitoring in Grid-Connected Distributed Generation Systems	IEEE ACCESS	Article	2023	11		39228	39242		10.1109/ACCESS.2023.3267125
442	Ardhayanti, LI; Islam, MS; Fukuda, M; Liu, XY; Zhang, ZY; Sekine, Y; Hayami, S	Thermally stable proton conductivity from nanodiamond oxide	CHEMICAL COMMUNICATIONS	Article	2023	59	53	8306	8309		10.1039/d3cc02016a
443	Kato, R; Takahashi, K	Precision of localization of single gravitational-wave source with pulsar timing array	PHYSICAL REVIEW D	Article	2023	108	12			123535	10.1103/PhysRevD.108.123535
444	Su, ZN; Diao, T; Mcguire, H; Yao, CC; Yang, LJ; Bao, G; Xu, XX; He, B; Zheng, YF	Nanomaterials Solutions for Contraception: Concerns, Advances, and Prospects	ACS NANO	Review	2023	17	21	20753	20775		10.1021/acsnano.3c04366
445	Paladi, AK; Dwivedi, C; Rana, P; Nobleson, K; Susobhanan, A; Joshi, BC; Tarafdar, P; Deb, D; Arumugam, S; Gopakumar, A; Krishnakumar, MA; Batra, ND; Debnath, J; Kareem, F; Arumugam, P; Bagchi, M; Bathula, A; Dandapat, S; Desai, S; Gupta, Y; Hisano, S; Kharbanda, D; Kikunaga, T; Kolhe, N; Maan, Y; Manoharan, PK; Singha, J; Srivastava, A; Surnis, M; Takahashi, K	Multiband extension of the wideband timing technique	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	Article	2024	527	1	213	231		10.1093/mnras/stad3122
446	Barua, PD; Kobayashi, M; Tanabe, M; Baygin, M; Paul, JK; Iype, T; Dogan, S; Tuncer, T; Tan, RS; Acharya, UR	Innovative Fibromyalgia Detection Approach Based on Quantum-Inspired 3LBP Feature Extractor Using ECG Signal	IEEE ACCESS	Article	2023	11		101359	101372		10.1109/ACCESS.2023.3315149
447	Katogi, T; Yoshida, Y; Nakayama, K; Hoshi, Y; Sawa, S	Genome size determination and chromosome characteriza- tion of Limosella aquatica L. (Scrophulariaceae) in Japan: Insights into Japanese population	CYTOLOGIA	Article	2023	88	4	339	346		10.1508/cytologia.88.339
448	Mohan, TVR; Sridhar, P; Selvam, P	Experimental and modelling studies of carbon dioxide capture onto pristine, nitrogen-doped, and activated ordered mesoporous carbons	RSC ADVANCES	Article	2023	13	2	973	989		10.1039/d2ra07171a
449	Tano, Y; Ahmad, MS; Watase, Y; Tsugawa, T; Takase, S; Inomata, Y; Hatakeyama, K; Ida, S; Armando, Q; Shimizu, Y; Kida, T	Enhancement of formic acid formation by nitrogen-doped graphene oxide nanosheets decorated with Sn nanoparticles in electrochemical CO2 reduction	SUSTAINABLE ENERGY & FUELS	Article	2023	7	16	3964	3971		10.1039/d3se00781b
450	Matsuo, H	Domain-wall photovoltaic effect in ferroelectric perovskite oxides	JOURNAL OF THE CERAMIC SOCIETY OF JAPAN	Article	2023	131	8	429	436		10.2109/jcersj2.23084
451	Guan, MS; Sha, M; Wang, JH; Hang, XR; Jin, GZ	Cyclic behavior of self-slitting squat composite shear walls with concrete-filled steel tubes: Experiment	JOURNAL OF CONSTRUCTIONAL STEEL RESEARCH	Article	2023	210				108054	10.1016/j.jcsr.2023.108054
452	Inamdar, MA; Raghavendra, U; Gudigar, A; Bhandary, S; Salvi, M; Deo, RC; Barua, PD; Ciaccio, EJ; Molinari, F; Acharya, UR	A Novel Attention-Based Model for Semantic Segmentation of Prostate Glands Using Histopathological Images	IEEE ACCESS	Article	2023	11		108982	108994		10.1109/ACCESS.2023.3321273
453	Krishnan, K; Samaraj, E; Sanjeev, G; Bhat, VT; Manickam, S; Parasuraman, S; Thanikachalam, PM	Titania Nanoparticle Catalysed N-Alkylation of Amines by Hydrogen Auto-Transfer Mechanisms	CHEMISTRYSELECT	Article	2023	8	25			e202300770	10.1002/slct.202300770
454	Wang, JH; Sun, YP	Shear strength behavior of high-strength fly ash concrete beams with low-bond reinforcement	STRUCTURES	Article	2023	54		1756	1771		10.1016/j.istruc.2023.05.095
455	Nakanishi, Y; Fujiwara, Y; Nakashima, Y; Komohara, Y; Hino, K; Miura, H; Higaki, H	Microchamber device for studying phagocytosis of ultra-high molecular weight polyethylene particles by human monocyte-derived macrophages	WEAR	Article	2023	523				204749	10.1016/j.wear.2023.204749
456	Chen, Q; Zhang, ZY; Awaga, K	Magnetometric Characterization of Intermediates in the Solid-State Electrochemistry of Redox-Active Metal-Organic Frameworks	JOVE-JOURNAL OF VISUALIZED EXPERIMENTS	Article	2023		196				10.3791/65335
457	Ichita, M; Higaki, T	Intracellular trafficking regulation of plasma membrane H plus -ATPase and environmental response in plants	CYTOLOGIA	Article	2023	88	3	169	173		10.1508/cytologia.88.169
458	Zhao, FC; Xiong, F; Cai, GC; Ge, Q; Larbi, AS	Seismic behavior and simplified hysteretic model of precast concrete wall panels with bolted connections under cyclic loading	ENGINEERING STRUCTURES	Article	2023	292				116562	10.1016/j.engstruct.2023.116562
459	Sun, YP; Cai, GC	Seismic Behavior of Circular Concrete Columns Reinforced by Low Bond Ultrahigh Strength Rebars	JOURNAL OF STRUCTURAL ENGINEERING	Article	2023	149	9			4023126	10.1061/JSENDH.STENG-10296
460	Zhu, HT; He, YJ; Cai, GC; Cheng, SZ; Zhang, Y; Larbi, AS	Bond performance of carbon fiber reinforced polymer rebars in ultra-high-performance concrete	CONSTRUCTION AND BUILDING MATERIALS	Article	2023	387				131646	10.1016/j.conbuildmat.2023.131646
461	Singh, A; Ardakani, AA; Loh, HW; Anamika, PV; Acharya, UR; Kamath, S; Bhat, AK	Automated detection of scaphoid fractures using deep neural networks in radiographs	ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE	Article	2023	122				106165	10.1016/j.engappai.2023.106165
462	Reena, GC; Gurupatham, BGA; Tsavdaridis, KD	Column Link Behavior in Eccentrically Braced Composite 3-Dimensional Frames	BUILDINGS	Article	2023	13	12			2970	10.3390/buildings13122970
463	Abril-Urias, P; Ruiz-Ferrer, V; Cabrera, J; Olmo, R; Silva, AC; Díaz-Manzano, FE; Domínguez-Figueroa, J; Martínez-Gómez, A; Gómez-Rojas, A; Moreno-Risueno, MA; Fenoll, C; Escobar, C	Divergent regulation of auxin responsive genes in root-knot and cyst nematodes feeding sites formed in Arabidopsis	FRONTIERS IN PLANT SCIENCE	Article	2023	14				1024815	10.3389/fpls.2023.1024815

	Authors	Article Title	Source Title	Document Type	Publication Year	Volume	Issue	Start Page	End Page	Article Number	DOI
464	Cai, GC; Fujinaga, T; Larbi, AS; Wen, Y; Malla, PB	Cyclic behavior of RCFT columns with large D/t ratio steel tubes: Effect of reinforcement arrangement	BULLETIN OF EARTHQUAKE ENGINEERING	Article	2023	21	9	4565	4588		10.1007/s10518-023-01696-w
465	Forero, JAJ; Atanda, L; Rahmati, S; Bartley, J; Beltramini, J; Doherty, WOS; Moghaddam, L; Ostrikov, KK; Rackemann, D	Thermochemically Treated Tin-Doped Nanocarbon Composite Structures for the High Catalytic Performance in the One-Step Synthesis of 5-Methyl Furfural	ACS SUSTAINABLE CHEMISTRY & ENGINEERING	Article	2023	12	1	480	489		10.1021/acssuschemeng.3c06354
466	Antoniadis, J; Arumugam, P; Arumugam, S; Babak, S; Bagchi, M; Nielsen, ASB; Bassa, CG; Bathula, A; Berthereau, A; Bonetti, M; Bortolas, E; Brook, PR; Burgay, M; Caballero, RN; Chalumeau, A; Champion, DJ; Chanlaridis, S; Chen, S; Cognard, I; Dandapat, S; Deb, D; Desai, S; Desvignes, G; Dhanda-Batra, N; Dwivedi, C; Falxa, M; Ferdman, RD; Franchini, A; Gair, JR; Goncharov, B; Gopakumar, A; Graikou, E; Griessmeier, JM; Gualandris, A; Guillemot, L; Guo, YJ; Gupta, Y; Hisano, S; Hu, H; Iraci, F; Izquierdo-Villalba, D; Jang, J; Jawor, J; Janssen, GH; Jessner, A; Joshi, BC; Kareem, F; Karuppusamy, R; Keane, EF; Keith, MJ; Kharbanda, D; Kikunaga, T; Kolhe, N; Kramer, M; Krishnakumar, MA; Lackeos, K; Lee, KJ; Liu, K; Liu, Y; Lyne, AG; McKee, JW; Maan, Y; Main, RA; Mickaliger, MB; Nitu, IC; Nobleson, K; Paladi, AK; Parthasarathy, A; Perera, BBP; Perrodin, D; Petiteau, A; Porayko, NK; Possenti, A; Prabu, T; Leclere, HQ; Rana, P; Samajdar, A; Sanidas, SA; Sesana, A; Shaifullah, G; Singha, J; Speri, L; Spiewak, R; Srivastava, A; Stappers, BW; Surnis, M; Susarla, SC; Susobhanan, A; Takahashi, K; Tarafdar, P; Theureau, G; Tiburzi, C; van der Wateren,	The second data release from the European Pulsar Timing Array IV. Implications for massive black holes, dark matter, and the early Universe	ASTRONOMY & ASTROPHYSICS	Article	2024	685				A94	10.1051/0004-6361/202347433
467	Agazie, G; Antoniadis, J; Anumarlapudi, A; Archibald, AM; Arumugam, P; Arumugam, S; Arzoumanian, Z; Askew, J; Babak, S; Bagchi, M; Bailes, M; Nielsen, ASB; Baker, PT; Bassa, CG; Bathula, A; Bécsy, B; Berthereau, A; Bhat, NDR; Blecha, L; Bonetti, M; Bortolas, E; Brazier, A; Brook, PR; Burgay, M; Burke-Spolaor, S; Burnette, R; Caballero, RN; Cameron, A; Case, R; Chalumeau, A; Champion, DJ; Chanlaridis, S; Charisi, M; Chatterjee, S; Chatziioannou, K; Cheeseboro, BD; Chen, S; Chen, ZC; Cognard, I; Cohen, T; Coles, WA; Cordes, JM; Cornish, NJ; Crawford, F; Cromartie, HT; Crowter, K; Curylo, M; Cutler, CJ; Dai, S; Dandapat, S; Deb, D; DeCesar, ME; DeGan, D; Demorest, PB; Deng, H; Desai, S; Desvignes, G; Dey, L; Dhanda-Batra, N; Di Marco, V; Dolch, T; Drachler, B; Dwivedi, C; Ellis, JA; Falxa, M; Feng, Y; Ferdman, RD; Ferrara, EC; Fiore, W; Fonseca, E; Franchini, A; Freedman, GE; Gair, JR; Garver-Daniels, N; Gentile, PA; Gersbach, KA; Glaser, J; Good, DC; Goncharov, B; Gopakumar, A; Graikou, E; Griessmeier, JM; Güillemot, L; Gültekin, K; Guo, YJ; Gupta, Y; Grunthal, K; Hazboun, JS; Hisano, S; Hobbs,	Comparing Recent Pulsar Timing Array Results on the Nanohertz Stochastic Gravitational-wave Background	ASTROPHYSICAL JOURNAL	Article	2024	966	1			105	10.3847/1538-4357/ad36be
468	Wang, YC; Quan, SY; Tang, X; Hosono, T; Hao, YL; Tian, J; Pang, ZH	Organic and Inorganic Carbon Sinks Reduce Long-Term Deep Carbon Emissions in the Continental Collision Margin of the Southern Tibetan Plateau: Implications for Cenozoic Climate Cooling	JOURNAL OF GEOPHYSICAL RESEARCH-SOLID EARTH	Article	2024	129	4			e2024JB028802	10.1029/2024JB028802
469	Hidayat, R; Fadillah, G; Ohira, SI; Fajarwati, FI; Setyorini, DA; Saputra, A	Facile green synthesis of Ag doped TiO2 nanoparticles using maple leaf for bisphenol-A degradation and its antibacterial properties	MATERIALS TODAY SUSTAINABILITY	Article	2024	26				100752	10.1016/j.mtsust.2024.100752
470	Ishida, K; Ercan, A; Nagasato, T; Kiyama, M; Amagasaki, M	Use of one-dimensional CNN for input data size reduction in LSTM for improved computational efficiency and accuracy in hourly rainfall-runoff modeling	JOURNAL OF ENVIRONMENTAL MANAGEMENT	Article	2024	359				120931	10.1016/j.jenvman.2024.120931
471	Rabehi, A; Helal, H; Zappa, D; Comini, E	Advancements and Prospects of Electronic Nose in Various Applications: A Comprehensive Review	APPLIED SCIENCES-BASEL	Review	2024	14	11			4506	10.3390/app14114506
472	Islam, MN; Hossain, MM; Maktedar, SS; Rahaman, M; Rahman, MA; Aldalbahi, A; Hasnat, MA	Ce-Doped TiO2 Fabricated Glassy Carbon Electrode for Efficient Hydrogen Evolution Reaction in Acidic Medium	CHEMISTRY-AN ASIAN JOURNAL	Article	2024	19	16				10.1002/asia.202301143
473	Ghimire, S; Deo, RC; Casillas-Pérez, D; Salcedo-Sanz, S; Pourmousavi, SA; Acharya, UR	Probabilistic-based electricity demand forecasting with hybrid convolutional neural network-extreme learning machine model	ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE	Article	2024	132				107918	10.1016/j.engappai.2024.107918
474	Islam, F; Ahsan, M; Islam, N; Hossain, MI; Bahadur, NM; Aziz, A; Al-Humaidi, JY; Rahman, MM; Maiyalagan, T; Hasnat, MA	Recent Advancements in Ascribing Several Platinum Free Electrocatalysts Pertinent to Hydrogen Evolution from Water Reduction	CHEMISTRY-AN ASIAN JOURNAL	Review	2024	19	16				10.1002/asia.202400220
475	Shinkai, T; Agutaya, JKCN; Manna, B; Boepple, M; Iwai, M; Masumoto, K; Koga, K; Kawanami, K; Nakamura, Y; Quitain, AT; Suematsu, K; Inomata, Y; Barsan, N; Kida, T	Ethanol sensing mechanism of ZnO nanorods revealed by DRIFT spectroscopy and DFT calculations	JOURNAL OF MATERIALS CHEMISTRY A	Article	2024	12	13				10.1039/d3ta06486g
476	Gupta, S; Kwak, Y; Raj, RP; Selvam, P	Ytterbium-nitrogen co-doped ordered mesoporous TiO2: an innovative hetero-phase photocatalyst for harnessing solar energy in green hydrogen production	JOURNAL OF MATERIALS CHEMISTRY A	Article	2024	12	12				10.1039/d3ta07458g
477	Matsumura, M; Inagaki, J; Yamada, R; Tashiro, N; Ito, K; Sasaki, M	Material Separation from Polyester/Cotton Blended Fabrics Using Hydrothermal Treatment	ACS OMEGA	Article	2024	9	11	13125	13133		10.1021/acsomega.3c09350
478	Wang, XZ; Jiang, LS; Li, YY; Zhang, L; Sainoki, A; Mitri, SH; Yang, YM; Peng, XH	Experimental study on the mechanical behavior and failure characteristics of rock analogs with filled internal fractures: A new method by sand powder 3D printing	CONSTRUCTION AND BUILDING MATERIALS	Article	2024	427				136261	10.1016/j.conbuildmat.2024.136261
479	Zenno, H; Sekine, Y; Zhang, ZY; Hayami, S	Solvation/desolvation induced reversible distortion change and switching between spin crossover and single molecular magnet behaviour in a cobalt(ii) complex	DALTON TRANSACTIONS	Article	2024	53	13	5861	5870		10.1039/d3dt03936f
480	Hitora, Y; El-Desoky, AH; Sadahiro, Y; Sejiyama, A; Kinoshita, A; Ise, Y; Angkouw, ED; Mangindaan, REP; Higaki, T; Tsukamoto, S	Neopetromin, a Cyclic Tripeptide with a C-N Cross-Link, from the Marine Sponge Neopetrosia sp., That Causes Vacuole Fragmentation in Tobacco BY-2 Cells	JOURNAL OF NATURAL PRODUCTS	Article	2024	87	4	1197	1202		10.1021/acs.jnatprod.4c00158
481	Sahroni, I; Kodama, T; Ahmad, MS; Nakahara, T; Inomata, Y; Kida, T	Graphene Oxide Membrane Reactor for Electrochemical Deuteration Reactions	NANO LETTERS	Article	2024	24	12	3590	3597		10.1021/acs.nanolett.3c04243

	Authors	Article Title	Source Title	Document Type	Publication Year	Volume	Issue	Start Page	End Page	Article Number	DOI
482	Shiohira, Y; Fujii, Y; Kita, H; Kimura, T; Terada, Y; Takahashi, K	A search for auroral radio emission from β Pictoris b	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	Article	2024	528	2	2136	2144		10.1093/mnras/stad3990
483	Maruyama, R; Yasumoto, K; Mizusawa, N; Iijima, M; Yasumoto-Hirose, M; Iguchi, A; Hermawan, OR; Hosono, T; Takada, R; Song, KH; Shinjo, R; Watabe, S; Yasumoto, J	Metagenomic analysis of the microbial communities and associated network of nitrogen metabolism genes in the Ryukyu limestone aquifer	SCIENTIFIC REPORTS	Article	2024	14	1			4356	10.1038/s41598-024-54614-8
484	Antoniadis, J; Arumugam, P; Arumugam, S; Babak, S; Bagchi, M; Nielsen, ASB; Bassa, CG; Bathula, A; Berthereau, A; Bonetti, M; Bortolas, E; Brook, PR; Burgay, M; Caballero, RN; Chalumeau, A; Champion, DJ; Chanlaridis, S; Chen, S; Cognard, ; Dandapat, S; Deb, D; Desai, S; Desvignes, G; Dhanda-Batra, N; Dwivedi, C; Falxa, M; Ferdman, RD; Franchini, A; Gair, JR; Goncharov, B; Gopakumar, A; Graikou, E; Griessmeier, JM; Guillemot, L; Guo, YJ; Gupta, Y; Hisano, S; Hu, H; Iraci, F; Izquierdo-Villalba, D; Jang, J; Jawor, J; Janssen, GH; Jessner, A; Joshi, BC; Kareem, F; Karuppusamy, R; Keane, EF; Keith, MJ; Kharbanda, D; Kikunaga, T; Kolhe, N; Kramer, M; Krishnakumar, MA; Lackeos, K; Lee, KJ; Liu, K; Liu, Y; Lyne, AG; McKee, JW; Maan, Y; Main, RA; Mickaliger, MB; Nitu, IC; Nobleson, K; Paladi, AK; Parthasarathy, A; Perera, BBP; Perrodin, D; Petiteau, A; Porayko, NK; Possenti, A; Prabu, T; Leclere, HQ; Rana, P; Samajdar, A; Sanidas, SA; Sesana, A; Shaifullah, G; Singha, J; Speri, L; Spiewak, R; Srivastava, A; Stappers, BW; Surnis, M; Susarla, SC; Susobhanan, A; Takahashi, K; Tarafdar, P; Theureau, G; Tiburzi, C; van der Wateren, E;	The second data release from the European Pulsar Timing Array V. Search for continuous gravitational wave signals	ASTRONOMY & ASTROPHYSICS	Article	2024	690				A118	10.1051/0004-6361/202348568
485	Ahmad, MS; Nishina, Y; Inomata, Y; Haridiansyah, A; Kida, T	Synergistic Functionalization of Graphene Oxide: Electrochemical Devices and Ritter Catalysis	JOURNAL OF PHYSICAL CHEMISTRY C	Article	2024	128	14	5860	5866		10.1021/acs.jpcc.3c07871
486	Kim, JG; Yu, HJ; Lee, R; Park, YI	Recent Developments in Near-Infrared-II Luminescence Imaging Using Inorganic Nanoparticles: Semiconductor Quantum Dots and Lanthanide Nanoparticles	KOREAN JOURNAL OF CHEMICAL ENGINEERING	Review	2024	41	13	3603	3619		10.1007/s11814-024-00300-4
487	Ezaki, K; Koga, H; Takeda-Kamiya, N; Toyooka, K; Higaki, T; Sakamoto, S; Tsukaya, H	Precocious cell differentiation occurs in proliferating cells in leaf primordia in Arabidopsis angustifolia3 mutant	FRONTIERS IN PLANT SCIENCE	Article	2024	15				1322223	10.3389/fpls.2024.1322223
488	Hitora, Y; Hokaguchi, M; Sadahiro, Y; Higaki, T; Tsukamoto, S	Machine Learning Accelerates Screening of Osteoclast Differentiation Inhibitors from Natural Products	JOURNAL OF NATURAL PRODUCTS	Article	2024	87	10	2393	2397		10.1021/acs.jnatprod.4c00640
489	Hosokawa, S; Stellhorn, JR; Boudet, N; Blanc, N; Magome, E; Pusztai, L; Kohara, S; Ikeda, K; Otomo, T	Local- and Intermediate-range Partial Structure Study of As-Se Glasses	JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN	Article	2024	93	1			14601	10.7566/JPSJ.93.014601
490	Kumar, MA; Nagarjun, N; Manyar, H; Selvam, P	Ionic liquid templated synthesis of cobalt-substituted mesoporous aluminophosphates: A novel heterogeneous catalyst for selective oxidation of cyclohexane to cyclohexanol	CHEMCATCHEM	Article	2024	16	8				10.1002/cctc.202301729
491	Bissa, K; Al-Samman, T; Molodov, DA	High temperature deformation and recrystallization behavior of magnesium bicrystals with 90° < 1010 > and 90° < 1120 > tilt grain boundaries	JOURNAL OF MAGNESIUM AND ALLOYS	Article	2024	12	2	625	638		10.1016/j.jma.2024.01.021
492	Aliabadian, Z; Sainoki, A; Sharafisafa, M	Failure mechanism of transversely isotropic schist under Brazilian test using real-time X-ray nano tomography scanning	ENGINEERING FRACTURE MECHANICS	Article	2024	310				110465	10.1016/j.engfracmech.2024.110465
493	Hano, N; Takeda, Y; Kanawa, S; Ryu, N; Nagaoka, S; Oda, R; Ihara, H; Takafuji, M	Fabrication of depth-controlled dimples on polymer microsphere and capturing of nano-sized objects	COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS	Article	2024	697				134321	10.1016/j.colsurfa.2024.134321
494	Ghimire, S; AL-Musaylh, MS; Nguyen-Huy, T; Deo, RC; Acharya, R; Casillas-Pérez, D; Yaseen, ZM; Salcedo-Sanz, S	Explainable deeply-fused nets electricity demand prediction model: Factoring climate predictors for accuracy and deeper insights with probabilistic confidence interval and point-based forecasts	APPLIED ENERGY	Article	2025	378				124763	10.1016/j.apenergy.2024.124763
495	Zhang, C; Clement, AA; Kodama, JI; Sainoki, A; Fujii, Y; Fukuda, D; Wang, SR	Effect of the Connectivity of Weak Rock Zones on the Mining-Induced Deformation of Rock Slopes in an Open-Pit Mine	SUSTAINABILITY	Article	2024	16	14			5974	10.3390/su16145974
496	Galindo-Trigo, S; Bagman, AM; Ishida, T; Sawa, S; Brady, SM; Butenko, MA	Dissection of the IDA promoter identifies WRKY transcription factors as abscission regulators in Arabidopsis	JOURNAL OF EXPERIMENTAL BOTANY	Article	2024	75	8	2417	2434		10.1093/jxb/erae014
497	Alali, AA; Huang, Y; Tsavdaridis, KD	Comparative life cycle assessment (LCA) of the composite prefabricated ultra-shallow slabs (PUSS) and hollow core slabs in the UK	JOURNAL OF BUILDING ENGINEERING	Article	2024	96				110588	10.1016/j.jobe.2024.110588
498	Xu, W; Maruyama, S; Sato, A; Niidome, T	Bacterial membrane vesicles combined with nanoparticles for bacterial vaccines and cancer immunotherapy	COLLOIDS AND SURFACES B-BIOINTERFACES	Article	2024	243				114125	10.1016/j.colsurfb.2024.114125
499	Fukushima, R; Sekine, Y; Zhang, ZY; Hayami, S	Assembling Smallest Prussian Blue Analogs Using Chiral Hydrogen Bond-Donating Unit toward Complete Phase Transition	JOURNAL OF THE AMERICAN CHEMICAL SOCIETY	Article	2024	146	35	24238	24243		10.1021/jacs.4c05065
500	Islam, MN; Moushumy, ZM; Islam, MR; Hossain, MI; Rahman, MA; Rahaman, M; Aldalbahi, A; Uddin, MT; Singha, NR; Hasnat, MA	Activation of stannic oxide by the incorporation of ruthenium oxide nanoparticles for efficient hydrogen evolution reaction	ELECTROCHIMICA ACTA	Article	2024	507				145114	10.1016/j.electacta.2024.145114
501	Kartik, JPM; Dutta, P; Chandraraj, K; Selvam, P	Xylooligosaccharides as emerging prebiotics and their sustainable generation from xylan catalysed by endoxylanase immobilized ordered mesoporous silica	MOLECULAR CATALYSIS	Article	2024	564				114287	10.1016/j.mcat.2024.114287
502	Gushino, S; Tsai, AYL; Otani, M; Demura, T; Sawa, S	VND Genes Redundantly Regulate Cell Wall Thickening during Parasitic Nematode Infection	PLANT AND CELL PHYSIOLOGY	Article	2024	65	8	1224	1230		10.1093/pcp/pcae048
503	Pongsiriyakul, K; Wongsurakul, P; Kiatkittipong, W; Premashthira, A; Kuldilok, K; Najdanovic-Visak, V; Adhikari, S; Cognet, P; Kida, T; Assabumrungrat, S	Upcycling Coffee Waste: Key Industrial Activities for Advancing Circular Economy and Overcoming Commercialization Challenges	PROCESSES	Review	2024	12	12			2851	10.3390/pr12122851
504	Kim, MW; Moon, S; Park, YI; Kim, J; Kim, SI; Lee, R	Ultrasound-Responsive Lipid Nanoparticles for Targeted Therapy and Controlled Drug Release in Non-Small Cell Lung Cancer	ADVANCED THERAPEUTICS	Article	2024	7	12				10.1002/adtp.202400248

	Authors	Article Title	Source Title	Document Type	Publication Year	Volume	Issue	Start Page	End Page	Article Number	DOI
505	Mukai, M; Rani, R; Iwanaga, N; Saeki, K; Toda, K; Ohira, SI	Two-step extraction for the evaluation of metal-organic framework impregnated materials	ANALYTICAL SCIENCES	Article	2024	40	9	1793	1797		10.1007/s44211-024-00608-5
506	Ranty-Roby, S; Pontvianne, F; Quentin, M; Favery, B	The overlooked manipulation of nucleolar functions by plant pathogen effectors	FRONTIERS IN PLANT SCIENCE	Review	2024	15				1445097	10.3389/fpls.2024.1445097
507	Notaguchi, M; Ichita, M; Kawasoe, T; Monda, K; Kurotani, K; Higaki, T; Iba, K; Hashimoto-Sugimoto, M	The PATROL1 function in roots contributes to the increase in shoot biomass	PLANTA	Article	2024	260	5			105	10.1007/s00425-024-04526-8
508	Song, XM; Ohbayashi, I; Sun, S; Wang, QL; Yang, Y; Lu, MY; Liu, YY; Sawa, S; Furutani, M	TCA cycle impairment leads to PIN2 internalization and degradation via reduced MAB4 level and ARA6 components in Arabidopsis roots	FRONTIERS IN PLANT SCIENCE	Article	2024	15				1462235	10.3389/fpls.2024.1462235
509	Kitamura, S; Putri, GK; Kodama, T; Nakahara, T; Hamidah, NL; Shinkai, T; Sahroni, I; Inomata, Y; Hatakeyama, K; Quitain, AT; Ahmad, MS; Kida, T	Superselective Hydrogen Separation through a Mixed Conducting Graphene Oxide Membrane	NANO LETTERS	Article	2024	24	48	15226	15233		10.1021/acs.nanolett.4c03094
510	Hosokawa, S; Stellhorn, JR; Pusztai, L; Yamazaki, Y; Jiang, J; Kato, H; Ichitsubo, T; Magome, E; Blanc, N; Boudet, N; Ohara, K; Tsutsui, S; Uchiyama, H; Baron, AQR	Structural and dynamical changes in a Gd-Co metallic glass by cryogenic rejuvenation	ACTA MATERIALIA	Article	2025	284				120616	10.1016/j.actamat.2024.120616
511	Wen, Y; Cai, GC; Malla, PB; Kikuchi, H; Xie, C	Seismic Behavior of Resilient Reinforced Concrete Columns with Ultra-High-Strength Rebars Under Strong Earthquake-Induced Multiple Reversed Cyclic Loading	BUILDINGS	Article	2024	14	12			3747	10.3390/buildings14123747
512	Ardhayanti, LI; Islam, MS; Cai, Z; Fukuzaki, M; Liu, XY; Zhang, ZY; Sekine, Y; Hayami, S	Purification and tailored functionalities in detonation nanodiamond	BULLETIN OF THE CHEMICAL SOCIETY OF JAPAN	Article	2024	97	9			uoae089	10.1093/bulcsj/uoae089
513	Inomata, Y; Koga, K; Shinkai, T; Kida, T	Pt-Decorated ZnO Nanorods for Light-Assisted Ethanol Sensing and In Situ Analysis of the Sensing Mechanism under Light Irradiation	ACS APPLIED MATERIALS & INTERFACES	Article	2024	17	1	1399	1407		10.1021/acsami.4c05044
514	Oishi, Y; Toyoda, M; Hano, N; Motozono, C; Ueno, T; Takafuji, M	Polycyclic aromatic polymer nanoparticles show potent infectious particle adsorption capability	JOURNAL OF MATERIALS CHEMISTRY B	Article	2025	13	2	568	576		10.1039/d4tb01793e
515	Nakamasu, AM	Peripheral straightness leads to shape diversification during formations of entire leaves	JOURNAL OF THEORETICAL BIOLOGY	Article	2025	597				111990	10.1016/j.jtbi.2024.111990
516	Bakó, I; Pusztai, L; Pothoczki, S	Outstanding Properties of the Hydration Shell around β-D-Glucose: A Computational Study	ACS OMEGA	Article	2024	9	18	20331	20337		10.1021/acsomega.4c00798
517	Hossain, MI; Saha, SR; Aoki, K; Alam, MM; Singha, NR; Rahaman, M; Aldalbahi, A; Nagao, Y; Hasnat, MA	Optimization of the synergistic effects in polycrystalline Pt-Au electrodes in developing an effective arsenic sensor via oxidation reactions	NEW JOURNAL OF CHEMISTRY	Article	2024	48	42	18301	18313		10.1039/d4nj03312d
518	Bissa, K; Al-Samman, T; Molodov, DA	On Melt Growth and Microstructure Characterization of Magnesium Bicrystals	CRYSTALS	Article	2024	14	2			130	10.3390/cryst14020130
519	Zhu, NCG; Liang, DF; Abadie, C; Ma, LN; Zhang, RL	Numerical Study of Scour beneath Sagging Cylinders and Spheres	JOURNAL OF HYDRAULIC ENGINEERING	Article	2024	150	5			4024033	10.1061/JHEND8.HYENG-13816
520	Takafuji, M; Kawamoto, K; Hano, N; Otsuki, M; Ihara, H	Nanofibrous chiral supramolecular assembly-derived self-healing hydrogels with polyethylene glycol	NANOSCALE ADVANCES	Article	2024	6	15	3850	3856		10.1039/d4na00353e
521	Hernandez-Tamargo, CE; Mohan, TVR; Selvam, P	Modelling of borrowing hydrogen amination reactions of alcohols and amines in NaOH- or KOH-containing media over metal-free ordered mesoporous nitrogenous carbon catalyst	ARKIVOC	Article	2024			1	11	2E+08	10.24820/ark.5550190.p012.083
522	Kikunaga, T; Hisano, S; Batra, ND; Desai, S; Joshi, BC; Bagchi, M; Prabu, T; Takahashi, K; Arumugam, S; Bathula, A; Dandapat, S; Deb, D; Dwivedi, C; Gupta, Y; Jacob, SJ; Kareem, F; Nobleson, K; Mamidipaka, P; Paladi, AK; Pandian, BA; Rana, P; Singha, J; Srivastava, A; Surnis, M; Tarafdar, P	Low-frequency pulse-jitter measurement with the uGMRT I: PSR J0437-4715	PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF AUSTRALIA	Article	2024	41				e036	10.1017/pasa.2024.30
523	Sasaki, M; Nonaka, K; Sakai, Y; Honma, T; Furusato, T; Kawamura, K	Linear oligopeptide formation from alanine-diketopiperazine in acidic aqueous solutions using interfacial nano-pulsed discharge plasma	NEW JOURNAL OF CHEMISTRY	Article	2025	49	2	514	520		10.1039/d3nj05664c
524	Pratama, PR; Pramata, AD; Suenari, Y; Agutaya, JKCN; Nagata, Y; Shinkai, T; Inomata, Y; Hidayat, MIP; Manna, B; Akaishi, Y; Kida, T	Lattice engineering for enhancing the stability of CsPbI3/CsxFA1-xPbI3 quantum dots synthesized via a direct arrangement	MATERIALS CHEMISTRY FRONTIERS	Article	2025	9	2	288	298		10.1039/d4qm00885e
525	Islam, MB; Hossain, MI; Hosen, N; Rahaman, M; Singha, NR; Aoki, K; Nagao, Y; Hasnat, MA	Influence of Different Dissolved Gases on Electrocatalytic Nitrate Sensing Performance at Cu-Modified Au Electrode	CHEMISTRYSELECT	Article	2024	9	36			e202402986	10.1002/slct.202402986
526	Singha, J; Joshi, BC; Krishnakumar, MA; Kareem, F; Bathula, A; Dwivedi, C; Jacob, SJ; Desai, S; Tarafdar, P; Arumugam, P; Arumugam, S; Bagchi, M; Batra, ND; Dandapat, S; Deb, D; Debnath, J; Gopakumar, A; Gupta, Y; Hisano, S; Kato, R; Kikunaga, T; Marmat, P; Nobleson, K; Paladi, AK; Pandian, AB; Prabu, T; Rana, P; Srivastava, A; Surnis, M; Susobhanan, A; Takahashi, K	Improving DM estimates using low-frequency scatter-broadening estimates	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	Article	2024	535	1	1184	1192		10.1093/mnras/stae2405
527	Hano, N; Zigon, N; Kuppan, B; Sturm, L; Vanthuyne, N; Pouget, E; Nlate, S; Bock, H; Durola, F; Avarvari, N; Oda, R	Hierarchical chirality observed from chiral supramolecular assembling of racemic and enantiopure helicene derivatives on silica nanohelix surfaces	NANOSCALE	Article	2025	17	9	5081	5089		10.1039/d4nr04292a
528	Tanaka, S; Matsushita, Y; Hanaki, Y; Higaki, T; Kamamoto, N; Matsushita, K; Higashiyama, T; Fujimoto, K; Ueda, M	HD-ZIP IV genes are essential for embryo initial cell polarization and the radial axis formation in Arabidopsis	CURRENT BIOLOGY	Article	2024	34	20				10.1016/j.cub.2024.08.038
529	Yu, ZQ; Hosono, T; Amano, H; Berndtsson, R; Nakagawa, K	Groundwater Resource Assessment by Applying Long-Term Trend Analysis of Spring Discharge, Water Level, and Hydroclimatic Parameters	WATER RESOURCES MANAGEMENT	Article	2024	38	11	4161	4177		10.1007/s11269-024-03857-1
530	Pratama, PR; Pramata, AD; Shiga, F; Agutaya, JKCN; Inomata, Y; Manna, B; Purniawan, A; Akaishi, Y; Kida, T	Green-emitting CsPbI3 nanorods decorated with CsPb2I5 and Cs4PbI6 nanoclusters	JOURNAL OF MATERIALS CHEMISTRY C	Article	2024	12	43	17611	17619		10.1039/d4tc03500c
531	Moonnee, I; Ahmad, MS; Inomata, Y; Kiatkittipong, W; Kida, T	Graphene oxide-based materials as proton-conducting membranes for electrochemical applications	NANOSCALE	Review	2024	16	45				10.1039/d4nr02992e
532	Mizuki, M; Kaneko, Y; Yukie, Y; Suyama, Y; Hirota, SK; Sawa, S; Kubo, M; Yamawo, A; Sasabe, M; Ikeda, H	Evolution of secondary metabolites, morphological structures and associated gene expression patterns in galls induced by four closely related aphid species on a host plant species	MOLECULAR ECOLOGY	Article	2024	33	16				10.1111/mec.17466

	Authors	Article Title	Source Title	Document Type	Publication Year	Volume	Issue	Start Page	End Page	Article Number	DOI
533	Rahman, MA; Cai, Z; Moushumy, ZM; Tagawa, R; Hidaka, Y; Nakano, C; Islam, MS; Sekine, Y; Nishina, Y; Ida, S; Hayami, S	Engineering Zeolitic-Imidazolate-Framework-Derived Mo-Doped Cobalt Phosphide for Efficient OER Catalysts	ACS OMEGA	Article	2024	9	34	36114	36121		10.1021/acsomega.4c00403
534	Kartik, JPM; Dutta, P; Shivudu, G; Sowmianarayanan, P; Gardas, RL; Chandraraj, K; Selvam, P	Endoxylanase Immobilized Nanoporous Silica for the Production of Xylooligosaccharides: Equilibrium Kinetics, Thermodynamic Studies, and Enzyme Characteristics	CHEMISTRYSELECT	Article	2024	9	41			e202402365	10.1002/slct.202402365
535	Morooka, N; Matsushita, A; Sano, M; Yamaoka, T; Yamaguchi, S; Kwak, K; Mine, Y; Takashima, K	Effect of Microalloying of V, Nb and Mo on Hydrogen Embrittlement Susceptibility of 2 GPa-grade Medium-carbon Si Cr Spring Steel with Tempered Martensite Microstructure	TETSU TO HAGANE-JOURNAL OF THE IRON AND STEEL INSTITUTE OF JAPAN	Article	2024	110	3	184	196		10.2355/tetsutohagane.TETSU-2023-081
536	Kwak, K; Yamamuro, T; Mine, Y; Morito, S; Takashima, K	Effect of Inhomogeneous Microstructure on Strength and Fracture Resistance in Sharp Edge of Japanese Swords	TETSU TO HAGANE-JOURNAL OF THE IRON AND STEEL INSTITUTE OF JAPAN	Article	2024	110	3	160	170		10.2355/tetsutohagane.TETSU-2023-076
537	Horiuchi, R; Kamimura, A; Hanaki, Y; Matsumoto, H; Ueda, M; Higaki, T	Deep learning-based cytoskeleton segmentation for accurate high-throughput measurement of cytoskeleton density	PROTOPLASMA	Article; Early Access	2024						10.1007/s00709-024-02019-9
538	Nakagami, S; Kajiwara, T; Tsuda, K; Sawa, S	CLE peptide signaling in plant-microbe interactions	FRONTIERS IN PLANT SCIENCE	Review	2024	15				1481650	10.3389/fpls.2024.1481650
539	Matsuo, H; Noguchi, Y	Bulk photovoltaic effect in ferroelectrics	JAPANESE JOURNAL OF APPLIED PHYSICS	Review	2024	63	6			60101	10.35848/1347-4065/ad442e
540	Matsuo, H; Sato, T; Noguchi, Y	Bulk photovoltaic effect in Cu-doped LiNbO3 single crystals with controlled oxidation state	JAPANESE JOURNAL OF APPLIED PHYSICS	Article	2024	63	7			07SP08	10.35848/1347-4065/ad60cf
541	Sonoda, K; Shimokawa, S; Suzuki, S; Kusamoto, T; Ueda, A	Boron-bridged bis(tetrathiafulvalene) zwitterionic neutral radical conductors: substituent effects on intramolecular and intermolecular electronic interactions and physical properties	BULLETIN OF THE CHEMICAL SOCIETY OF JAPAN	Article	2024	97	10			uoae107	10.1093/bulcsj/uoae107
542	Maha, MM; Matsuyama, A; Arima, T; Sainoki, A	Assessment of Total Mercury Levels Emitted from ASGM into Soil and Groundwater in Chami Town, Mauritania	SUSTAINABILITY	Article	2024	16	18			7992	10.3390/su16187992
543	Jiang, RJ; Lu, H; Yang, K; Cho, HRS; Yamazaki, D	Analysis and comparison of the flood simulations with the routing model CaMa-Flood at different spatial resolutions in the CONUS	ENVIRONMENTAL MODELLING & SOFTWARE	Article	2025	185				106305	10.1016/j.envsoft.2024.106305
544	Rani, R; Ueda, T; Saeki, K; Toda, K; Ohira, SI	Adsorption behavior of zirconium metal-organic frameworks in multicomponent metal-ion solutions	BULLETIN OF THE CHEMICAL SOCIETY OF JAPAN	Article	2024	97	11			uoae113	10.1093/bulcsj/uoae113
545	Hartmann, C; Venkatesan, K; de Looze, G; Takashima, K; Shen, SR; Wilson, R	Additive manufacturing of WE43 and modified AZ91D magnesium alloys using the laser engineered net shaping process	MATERIALS TODAY COMMUNICATIONS	Article	2024	39				108774	10.1016/j.mtcomm.2024.108774
546	Akaishi, Y; Yoshimura, G; Mokuge, Y; Sumi, K; Vas-Umnuay, P; Inomata, Y; Kida, T	A photoelectrochemical capacitor using polyoxometalates coupled with semiconductor nanocrystals as the photosensitizer	CHEMICAL COMMUNICATIONS	Article	2024	60	68	9042	9045		10.1039/d4cc01550a
547	Junaid, K; Zyed, M; Nonna, A; Cai, GC; Amir, SL	Tensile and cracking behaviour of crimped textile reinforced mortar (TRM) based on digital image correlation	CONSTRUCTION AND BUILDING MATERIALS	Article	2024	417				135321	10.1016/j.conbuildmat.2024.135321
548	Mahamoud, MM; Ketema, TM; Kuwahara, Y; Takafuji, M	Enhancement of Mechanical Properties of Benign Polyvinyl Alcohol/Agar Hydrogel by Crosslinking Tannic Acid and Applying Multiple Freeze/Thaw Cycles	GELS	Article	2024	10	8			527	10.3390/gels10080527
549	Cai, GC; Wen, Y; Malla, PB; Fujinaga, T; Larbi, AS	Effect of axial load and shear span on seismic performance of CFT columns reinforced with end-fixed ultra-high strength rebars	BULLETIN OF EARTHQUAKE ENGINEERING	Article	2024	22	9	4515	4543		10.1007/s10518-024-01939-4
550	Junaid, K; Larbi, AS; Algourdin, N; Mesticou, Z; Aggelis, D; Cai, GC	Application of supervised learning for classification of cracking and non-cracking major damage in TRMs based on AE features	CONSTRUCTION AND BUILDING MATERIALS	Article	2024	437				137079	10.1016/j.conbuildmat.2024.137079
551	Junaid, K; Algourdin, N; Mesticou, Z; Cai, GC; Larbi, AS	The influence of high temperature exposure on the tensile and cracking behavior of crimped-textile reinforced mortar composites (TRMs)	CONSTRUCTION AND BUILDING MATERIALS	Article	2024	439				137350	10.1016/j.conbuildmat.2024.137350
552	Zhao, J; Deng, XS; Cai, GC; Larbi, AS; Liu, XT	Shear behavior of reinforced concrete beams with high-strength reinforcements after high temperatures	CONSTRUCTION AND BUILDING MATERIALS	Article	2024	447				138071	10.1016/j.conbuildmat.2024.138071
553	Zhao, J; Jiang, YB; Cai, GC; Deng, XS; Larbi, AS	Flexural stiffness of RC beams with high-strength steel bars after exposure to elevated temperatures	STRUCTURAL CONCRETE	Article	2024	25	5	3081	3102		10.1002/suco.202300934
554	Wen, Y; Cai, GC; Malla, P	Experimental and Transformer-Based Study on Seismic Behavior and Plastic Hinge Length of RC Columns Reinforced with End-Fixed Ultra-High Strength Rebars	BUILDINGS	Article	2024	14	10			3046	10.3390/buildings14103046
555	Güler, MA; Artac, A; Yildirim, B; Tsavdaridis, KD	Design Methods of Aluminium Pin-Ended Columns with Topology-Optimised Cross-Sections	BUILDINGS	Article	2024	14	11			3588	10.3390/buildings14113588
556	Tsavdaridis, KD; McKinley, B; Kacaroglu, BN; Corfar, DA; Lawson, M	Bending test of long-span ultra-shallow floor beam (USFB) with two lightweight concretes	STRUCTURES	Article	2024	66				106895	10.1016/j.istruc.2024.106895
557	Hossain, MI; Monim, SA; Moushumy, ZM; Khansur, NH; Mahmud, I; Rahaman, M; Aldalbahi, A; Firoz, SH; Hasnat, MA	Synthesis of La2NiMnO6 Double Perovskite as a Highly Selective Electrocatalyst for Oxygen Reduction to Hydrogen Peroxide in Electrochemical Energy Conversion	ACS APPLIED ENERGY MATERIALS	Article	2025	8	2	949	963		10.1021/acsaem.4c02469
558	Akaike, M; Hatakeyama, J; Saito, Y; Nakanishi, Y; Shimamura, K; Nakashima, Y	Microdifferential Pressure Measurement Device for Cellular Microenvironments	BIOENGINEERING-BASEL	Article	2025	12	1			3	10.3390/bioengineering12010003