

5-1. Papers Published by IROAST

Director

Kazuki TAKASHIMA

Kwangsik Kwak, Takateru Yamamuro, Yoji Mine, Shigekazu Morito, **Kazuki Takashima**

Effect of Inhomogeneous Microstructure on Strength and Fracture Resistance in Sharp Edge of Japanese Swords, ISIJ International, 64, 14 (2024), 2061-2070

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Vice Director

Kei TODA

R. Rani, T. Ueda, K. Saeki, **K. Toda**, S-I. Ohira, Adsorption behavior of zirconium metal–organic frameworks in multicomponent metal-ion solutions, Bulletin of the Chemical Society of Japan, 97 (11), uoae113 (2024)

M. Mukai, R. Rani, N. Iwanaga, K. Saeki, **K. Toda**, S-I. Ohira, Two-step extraction for the evaluation of metal–organic framework impregnated materials, Analytical Sciences, 40, 1793-1797 (2024)

Distinguished Professors

U. Rajendra ACHARYA

S Ghimire, MS AL-Musaylh, T Nguyen-Huy, RC Deo, **R Acharya**, David Casillas-Pérez, Zaher Mundher Yaseen, Sancho Salcedo-Sanz, 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 378, Part A, 124763 (2025)

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Mehmet Erten, Emrah Aydemir, Prabal Datta Barua, Mehmet Baygin, Sengul Dogan, Turker Tuncer, Ru-San Tan, Abdul Hafeez-Baig, **U. Rajendra Acharya**, Novel tiny textural motif pattern-based RNA virus protein sequence classification model, Expert Systems with Applications 242, 122781, 2024

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Yufeng ZHENG

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Tenure-track Faculty members

Gaochuang CAI

Y. Wen, G. Cai*, P. Malla, H. Kikuchi, C. Xie, Seismic Behavior of Resilient Reinforced Concrete Columns with Ultra-High-Strength Rebars Under Strong Earthquake-Induced Multiple Reversed Cyclic Loading, Buildings 2024, 14(12), 3747. (2024).

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Hiroki MATSUO

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Postdoctoral Researchers

Jonas Karl N. AGUTAYA

P. R. Pratama, A. D. Pramata, Y. Suenari, J. K. C. N. Agutaya, Y. Nagata, T. Shinkai, Y. Inomata, M. I. P. Hidayat, B. Manna, Y. Akaishi and T. Kida, “Lattice engineering for enhancing the stability of CsPbI₃/Cs_xFA_{1-x}PbI₃ quantum dots synthesized via a direct arrangement”, Mater. Chem. Front., 2025, 9, 288–298.

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Prafulla Bahadur MALLA

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Mohammad Atiqur RAHMAN

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Reetu Rani

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International Joint Research Faculty Members

Takumi HIGAKI

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Kei ISHIDA

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Ruda LEE

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Yuta NAKASHIMA

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Shin-Ichi OHIRA

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Atsushi SAINOKI

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Mitsuru SASAKI

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