

### 5-3. Internationally Collaborated Papers by IROAST Visiting Professors and their Host Professors

#### **Nicorae BARSAN & Tetsuya KIDA**

T. Shinkai, J.K.C.N. Agutaya, B. Manna, M. Boepple, M. Iwai, K. Masumoto, K. Koga, K.Kawanami, Y. Nakamura, A. T. Quitain, K. Suematsu, Y. Inomata, N. Barsan, T. Kida, Ethanol Sensing Mechanism of ZnO Nanorods Revealed By DRIFT Spectroscopy and DFT Calculations, Journal of Materials Chemistry A, 12, 7564-7576 (2024).

#### **Reiko ODA and Makoto TAKAFUJI**

N. Hano, Y. Takeda, S. Kanawa, N. Ryu, S. Nagaoka, R. Oda, H. Ihara, M. Takafuji, Fabrication of depth-controlled dimples on polymer microsphere and capturing of nano-sized objects, Colloids and Surfaces A: Physicochemical and Engineering Aspects, 697, 134321, 2024

#### **Amir SI LARBI & Gaochuang CAI**

J. Zhao, X. Deng, G. Cai\*, A. Si Larbi, X. Liu, Shear behavior of reinforced concrete beams with high-strength reinforcements after high temperatures, Construction and Building Materials, 447, 138071 (2024)

K. Junaid, N. Algourdin, Z.Mesticou, G. Cai, A. Si Larbi, The influence of high temperature exposure on the tensile and cracking behavior of crimped-textile reinforced mortar composites (TRMs). Construction and Building Materials, 439, 16, 137350 (2024)

K. Junaid, A. Si Larbi, N. Algourdin, Z.Mesticou, D. Aggelis, G. Cai, Application of supervised learning for classification of cracking and non-cracking major damage in TRMs based on AE features, Construction and Building Materials, 437,137079 (2024)

G.Cai\*, Y. Wen, P. Malla, T. Fujinaga and A. Si Larbi, 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, 22(9), 4515–4543, 2024

Jun Zhao, Yibo Jiang, Gaochuang Cai, Xiangsheng Deng, Amir Si Larbi, Flexural stiffness of RC beams with high-strength steel bars after exposure to elevated temperatures. Structural Concrete, 25(5), 3081-3102 (2024)

#### **Hui LU & Hiroshi CHO**

Jiang, R.J., Lu, H., Yang, K., Cho, H. and 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, 185, 106305 (2025)

**Yong Il PARK & Ruda LEE**

Min Woo Kim, Sol Moon, Yong Il Park, Jungho Kim, Seung Il Kim, and Ruda Lee\*. Ultrasound-Responsive Lipid Nanoparticles for Targeted Therapy and Controlled Drug Release in Non-Small Cell Lung Cancer. Adv. Therap. 2024, 2400248.

Jeon Geun Kim, Hyeon Jung Yu, Ruda Lee\*, and Yong Il Park\*. Recent Developments in Near-Infrared-II Luminescence Imaging Using Inorganic Nanoparticles: Semiconductor Quantum Dots and Lanthanide Nanoparticles. Korean J. Chem. Eng. 2024; 41, 3603-3619.