

The 1st International Workshop on the Research and Development of Unique Reaction/Separation Techniques in Kumamoto

March 6th, 2018, Kumamoto University

Venue: Kurokami South W3 (Academic Commons Kurokami Bldg. 1)

Scientific Program

		Presenter(s)	Presentation title	Affiliations
13:00	13:10	Opening talk Mitsuru Sasaki		Institute of Pulsed Power Science, Kumamoto University, Kumamoto, Japan
13:10	14:00	Invited talk 1 Rodolfo Morales Ibarra	Recycling of Thermoset Polymers and Composites	Faculty of Mechanical and Electrical Engineering, Autonoma de Nuevo Leon, Monterrey, Mexico
14:00	14:40	Invited talk 2 Kunio Kawamura	Hydrothermal flow reactor system as a research tool for origin-of-life study and more practical applications	Department of Human Environmental Studies, Hiroshima Shudo University, Hiroshima, Japan
14:40	14:50	Break & Refreshments (10 minutes)		
14:50	15:50	Poster session (Chair: Mitsuru Sasaki)		
	P-1	<u>Tetsuo Honma</u> ^{1*} , Tomohiro Furusato ² , Akira Hasegawa ¹ , Mitsuru Sasaki ³	Role of Water on Cyclization and Ring-Opening Reaction of Alanine Dimer from Ambient to Supercritical Water	¹ National Institute of Technology, Hachinohe College, Hachinohe, Japan; ² Nagasaki University, Nagasaki, Japan; ³ Institute of Pulsed Power Science, Kumamoto University, Kumamoto, Japan
	P-2	<u>Tetsuo Honma</u> ^{1*} , Yuka Takahashi ¹ , Akira Hasegawa ¹ , Mitsuru Sasaki ² , Makoto Akizuki ³ , Yoshito Oshima ³	Rapid Synthesis of N-Substituted Succinimide in High-Temperature and High-Pressure Water	¹ National Institute of Technology, Hachinohe College, Hachinohe, Japan; ² Institute of Pulsed Power Science, Kumamoto University, Kumamoto, Japan; ³ The University of Tokyo, Kashiwa, Japan
	P-3	<u>Hiroshi Isobe</u> ^{1*} , Kento Murozono ²	Oxidation and evaporation of sulfur species at atmospheric entry of iron sulfide fine particles	¹ Faculty of Advanced Science and Technology, Kumamoto University, Kumamoto, Japan; ² Faculty of Science, Kumamoto University, Kumamoto, Japan
	P-4	<u>Shohei Ninomiya</u> ¹ , Mitsuru Sasaki ^{1,2*} , Armando Tibigin Quitain ¹ , Tetsuya Kida ¹ , Marleny Aranda Saldana ³	Preparation of carbon-based catalysts for esterification from seaweeds	¹ Graduate School of Science and Technology, Kumamoto University, Kumamoto, Japan; ² Institute of Pulsed Power Science, Kumamoto University, Kumamoto, Japan; ³ Faculty of Agricultural, Life and Environmental Sciences Agricultural Food and Nutritional Science, University of Alberta, Canada
	P-5	<u>Yudai Tanaka</u> ¹ , Hironobu Tanoue ¹ , Masato Takenouchi ¹ , Yuki Nagao ¹ , Zenji Yatabe ² , Shoji Nagaoka ^{3,4} , Yusui Nakamura ^{1,4*}	Improvement of non-polar ZnO Films Formed on Buffer Layers on Sapphire Substrates by Mist Chemical Vapor Deposition	¹ Graduate School of Science and Technology, Kumamoto University, Kumamoto, Japan; ² Priority Organization for Innovation and Excellence, Kumamoto University, Kumamoto, Japan; ³ Kumamoto Industrial Research Institute, Kumamoto, Japan; ⁴ Kumamoto Institute for Photo-Electro Organics, Kumamoto, Japan
	P-6	<u>S. Taijima</u> ¹ , A. Murata ¹ , T. S. Suzuki ² , T. Uchikoshi ² , M. Matsuda ¹	Microstructure control of Ln ₂ NiO ₄ layered perovskite compound in magnetic field for solid oxide fuel cell	¹ Department of Materials Science and Technology, Kumamoto University, Kumamoto, Japan; ² Materials Processing Unit, National Institute for Materials Science, Tsukuba, Japan
	P-7	<u>Kanae Mori</u> ¹ , Mitsuru Sasaki ^{2,3*} , Armando T. Quitain ² , Tetsuya Kida ² , Douyan Wang ³ , Takao Namihira ³ , Satoko Okubayashi ⁴	Synthesis of Thermo-Sensitive Polymer Using Plasma Discharge	¹ Graduate School of Science and Technology, Kumamoto University, Kumamoto, Japan; ² Faculty of Advanced Science and Technology, Kumamoto University, Kumamoto, Japan; ³ Institute of Pulsed Power Science, Kumamoto University, Kumamoto, Japan; ⁴ Department of Advanced Fibro-Science, Kyoto Institute of Technology, Kyoto, Japan
	P-8	<u>Takuto Hobo</u> ¹ , Armando T. Quitain ² , Tetsuya Kida ² , Mitsuru Sasaki ^{2,3*}	Hydrolysis of rutin through the synergy of microwave irradiation and acidic carbon catalyst with β-cyclodextrin	¹ Graduate School of Science and Technology, Kumamoto University, Kumamoto, Japan; ² Faculty of Advanced Science and Technology, Kumamoto University, Kumamoto, Japan; ³ Institute of Pulsed Power Science, Kumamoto University, Kumamoto, Japan.
	P-9	<u>Chithya Soreli Castro Issasi</u> ¹ , Armando T. Quitain ² , Tetsuya Kida ² , Mitsuru Sasaki ^{2,3*}	Extraction of Oligomers from Low Density Polyethylene Pellets Using Supercritical CO ₂	¹ Graduate School of Science and Technology, Kumamoto University, Kumamoto, Japan; ² Faculty of Advanced Science and Technology, Kumamoto University, Kumamoto, Japan; ³ Institute of Pulsed Power Science, Kumamoto University, Kumamoto, Japan.
	P-10	<u>Makoto Tokuda</u> ¹ , Ma Weijian ¹ , Shinya Hayami ² , Tadao Nishiyama ² , Akira Yoshiasa ² , and Tsutomu Mashimo ^{1*}	Change in crystal structure and magnetic properties of orthoferrite Sr ₄ Fe ₄ O ₁₁ by strong gravitational field	¹ Institute of Pulsed Power Science, Kumamoto University, Kumamoto, Japan ² Faculty of Science, Kumamoto University, Kumamoto, Japan
15:50	16:00	Closing talk Mitsuru Sasaki		Institute of Pulsed Power Science, Kumamoto University, Kumamoto, Japan