

The 4th IROAST International Symposium

Joint with the 8th PHOENICS International Symposium

Dates: 24th and 25th, January, 2019

Place: 100th Anniversary Hall of Engineering Faculty, Kumamoto University

Session-A New Waves for Chiral Technologies

13:00 - 17:10, 24th, January, 2019

- A-01 ***Chiroptical signals observed by the molecular assemblies from non-chiral molecules***
ODA, Reiko (CNRS, University of Bordeaux, France)
- A-02 ***Manipulation of optical polarization in nanofibers or thin-films containing dyes or quantum dots***
SAGAWA, Takashi (Kyoto University, Graduate School of Energy Science)
- A-03 ***Chiral multifunctional molecules based on helicenes***
CRASSOUS, Jeanne (CNRS, Institut des Sciences Chimiques de Rennes, Université Rennes, France)
- A-04 ***Induced chirality of monoatomic anions for circularly polarized luminescence***
OKAZAKI, Yutaka (Kyoto University)
- A-05 ***Chirality transfer from supramolecular assemblies to organic and inorganic fluorophores***
RYU, Naoya (Kumamoto Industrial Research Institute)
- A-06 ***Generation of circularly polarized luminescence induced by chiral organogel based on L-glutamide***
YOSHIDA, Kyohei (Kumamoto Industrial Research Institute)
- A-07 ***Antisense PNA-PEG conjugate targeting a single nucleotide mutation in K-ras induces cell apoptosis in pancreatic cancer cells***
SAKURAI, Toshihiko (Tottori University)

Session-B Waves for Advanced Materials Related with Analysis, Environment and Energy

8:50 - 12:50, 25th, January, 2019

- B-01 ***Local rheological properties and heterogeneity in supramolecular systems***
SHUNDO, Atsuo (Kyushu University)
- B-02 ***Novel polymer electrolytes for hydrogen energy application***
NISHIHARA, Masamichi (Kyushu University)
- B-03 ***Synthesis of amphiphilic block copolymer colloids and application***
GUO, Longhai and LI, Xiaoyu (Beijing University of Chemical Technology, China)
- B-04 ***Development and application of analytical tools at the Instrumental analysis open access centre of Vytautas Magnus university***
MARUSKA, Audrius Sigita (Vytautas Magnus University, Lithuania)
- B-05 ***CO₂ reduction vs CO₂ hydrogenation***
FUJITA, Etsuko (Dr., Senior Chemist, Brookhaven National Laboratory, USA)
- B-06 ***Photoresponsive organic materials: Functions and applications***
JINTOKU, Hirokuni (National Institute of Advanced Industrial Science and Technology)
- B-07 ***Exploiting charge-separated states: From generating triplets to molecular emission***
MANI, Tomoyasu (University of Connecticut, USA; Research Director, Presto, Japan)
- B-08 ***Chemistry and physics of 2D materials***
CORONADO, Eugenio (University of Valencia, Spain)

Session-C New Waves on Nano-Celluloses and Their Composites

13:55 - 17:25, 25th, January, 2019

- C-01 **Nanocelluloses: innovations via tunable chemical functionalities, amphiphilicity, and hierarchical structures**
HSIEH, You-Lo (University of California at Davis, USA)
- C-02 **Nanocellulose for future multifunctional and structural composite materials**
KIM, Jaehwan (Inha University, Korea)
- C-03 **地域から始まるナノセルロース研究**
北川 和男 (京都市産業技術研究所)
- C-04 **セルロースナノファイバー強化ゴム材料の特徴とその応用**
長谷 朝博 (兵庫県立工業技術センター)
- C-05 **セルロースナノファイバーによる非焼成セラミックスの高強度化**
浅倉 秀一 (岐阜県産業技術センター)
- C-06 **硫酸化 CNF をドーパントに用いた PEDOT 膜の高導電化**
堀川 真希 (熊本県産業技術センター)

Mixer

Date: 18:00 - 19:30, 24th, January, 2019

Venue: KUSUNOKI HALL in Kurokami North Campus, Kumamoto University

Fee: ¥3,000

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- Hosted International Research Organization for Advanced Science and Technology (IROAST)
Kumamoto Institute for Photo-Electro-Organics (PHOENICS)
Forum of Supramolecular Chemistry and Superstructural Materials, Kumamoto University
Kumamoto Prefecture
- Co-Hosted Kumamoto Photo-Electro-Organics
Industrial Promotion Society, Kumamoto Technology of Industrial Promotion Society
Earthquake Reconstruction Industry-University Cooperation Promotion Program
- Co-sponsored The Chemical Society of Japan
The Society of Polymer Science, Japan
Nanocellulose Forum