

Oral Presentation Program

December 7

Opening remarks

9:00-9:20

Plenary Lecture

Chair: Hiroyuki TAJIMA University of Hyogo

9:20-10:00

PL-1 Expanding Science and Technology of CT Phenomena in Organic Optoelectronic Devices

Chihaya Adachi

kyushu University

Oral presentation

<Conference Hall>

Chair: He TIAN East China University of Science and Technology.

10:00-10:20

1A01 Large Area Patterning of Organic Functional Materials

Lei Jiang

Technical Institute of Physics and Chemistry of the Chinese Academy of Sciences

10:20-10:40

1A02 Crystal structures of molecular semiconductors: control and simulation

Kazuo Takimiya

Tohoku University

10:40-11:00

Break

Chair: Yukio FURUKAWA Waseda University

11 : 00-11:20

1A03 "Hot exciton" materials: A new blue-emitting material possess both color purity and efficiency

Yuguang Ma

South China University of Technology

11:20-11:40

1A04 Realizing Extremely Sharp Switching Printed Transistors Using Highly Layered-Crystalline Organic Semiconductors

Tatsuo Hasegawa

The University of Tokyo

11:40-12:00

1A05 Through-Space Charge Transfer Polymers for Solution-processed OLEDs
Lixiang Wang
Changchun Institute of Applied Chemistry, Chinese Academy of Sciences

12:00-12:10

Photo session

12:10-13:20

Lunch

Chair: Wang SHU ICCAS

13:20-13:40

1A06 Nonthermal Equilibrium Process of Charge Carrier Extraction in Metal /Insulator/Organic Semiconductor/Metal (MIOM) capacitor
Hiroyuki Tajima
University of Hyogo

13:40-14:00

1A07 The Modification of the Functionality of π -Molecules through the Structural Adjustment
Zhen Li
Wuhan Univesrity

14:00-14:20

1A08 Synthesis, solid-state structures and transport properties of novel N-doped polycyclic molecules
Takayuki Tanaka
Kyoto University

14:20-14:40

1A09 Monolayer Molecular Crystal Optoelectronic Materials and Devices
Lang Jiang
Institute of Chemistry, Chinese Academy of Sciences

14:40-15:00

1A10 Group 14 Element-Bridged Cationic Diazulenylmethenes Forming *J*-Aggregates with Near-Infrared Emission
Masahito Murai
Nagoya University

15:00-15:20

Break

Chair: Hironori KAJI Kyoto University.

15:20-15:40

- 1A11** Tetraselenafulvalene Donors with a *meso*-Dimethylethylenedithio Group
Takashi Shirahata
Ehime University

15:40-16:00

- 1A12** Doublet-emissive materials and devices
Feng Li
Jilin University

16:00-16:20

- 1A13** Synthesis of Single-Handed Helical Spiro-Conjugated Ladder Polymers with or without a Helical Cavity
Tomoyuki Ikai
Nagoya University

16:20-16:40

- 1A14** Purely Organic Room-Temperature Electrophosphorescence
Shijian Su
South China University of Technology

<RCMS>

Chair: Hiroaki IGUCHI Nagoya University

13:20-13:40

- 1B06** Organic Photovoltaic Catalysts for Solar Hydrogen Evolution
Yuze Lin
Institute of Chemistry, Chinese Academy of Sciences

13:40-14:00

- 1B07** Operando analysis of the organic devices by sum-frequency generation spectroscopy
Takayuki Miyamae
Chiba University

14:00-14:20

- 1B08** High mobility organic semiconductors and devices
Huanli Dong
Institute of Chemistry, Chinese Academy of Sciences

14:20-14:40

- 1B09** Charge Transport in Electrochemically-Doped Conducting Polymers
Hisasaki Tanaka

Nagoya University

14:40-15:00

1B10 n-Type Conjugated Polymers Containing B←N Unit

Jun Liu

Changchun Institute of Applied Chemistry, Chinese Academy of Sciences

15:00-15:20

Break

Chair: Chong-an DI ICCAS

15:20-15:40

1B11 Morphology design for high performance stretchable conjugated polymer films

Yanchun Han

Changchun Institute of Applied Chemistry, Chinese Academy of Sciences

15:40-16:00

1B12 Porous Molecular Conductors Constructed from Naphthalenediimide-based Coordination Networks and Metallocycles

Hiroaki Iguchi

Nagoya University

16:00-16:20

1B13 The Interface Design of Anodes based on Graphdiyne

Changshui Huang

Institute of Chemistry, Chinese Academy of Sciences

16:20-16:40

1B14 Redox-tunable spin state in strongly correlated metal-organic frameworks

Qi Chen

Nagoya University

December 8

<Conference Hall>

Chair: Takayoshi NAKAMURA Hokkaido University

9:00-9:20

2A01 Organic semiconductor crystals

Wenping Hu

Tianjin University

9:20-9:40

2A02 Polaron and Bipolaron Conduction in Conducting Polymers

Yukio Furukawa

Waseda University

9:40-10:00

2A03 N-Type Conjugated Polymers for High-Performance Organic Electronics

Fei Huang

South China University of Technology

10:00-10:20

2A04 Molecular Arrangement and Physical Properties of Dianionic Organic Semiconductors

Tomoyuki Akutagawa

Tohoku University

10:20-10:40

Break

Chair: Yunqi LIU ICCAS

10:40-11:00

2A05 Machine-learning plus thermal vibration correlation function method for theoretical design of OLEDs molecules

Zhigang Shuai

The Chinese University of Hong Kong (Shenzhen)

11:00-11:20

2A06 Classifying Crystal Structures of Organic Semiconductors

Takehiko Mori

Tokyo Institute of Technology

11:20-11:40

2A07 Assembling-Induced Organic Room-Temperature Phosphorescence

Xiang Ma

East China University of Science and Technology

11:40-12:00

2A08 Intermittent Deposition Technique to Control Spontaneous Orientation Polarization in Vacuum-Evaporated Organic Films Observed by Rotary Kelvin Probe Technique

Hisao Ishii

Chiba University

12:00-13:20

Lunch

Chair: Hisao ISHII Chiba University

13:20-13:40

2A09 Material Design for Printed Large Area Organic Solar Cells

Zhixiang Wei

National Center for Nanoscience and Technology

13:40-14:00

2A10 Multiferroics Consisting of Molecular Rotor Structures and Two-Dimensional Ferromagnetic $[\text{MnCr}(\text{oxalate})_3]^-$

Takayoshi Nakamura

Hokkaido University

14:00-14:20

2A11 Challenges and Opportunities in Single-Molecule Sciences

Xuefeng Guo

Peking University

14:20-14:40

2A12 Shear Stress Effect on Crystal Violet Lactone

Makoto Inokuchi

Sanyo-Onoda City University

14:40-15:00

2A13 Microfabrication and Devices for Optoelectronic Functional Materials

Yuchen Wu

Technical Institute of Physics and Chemistry of the Chinese Academy of Sciences

15:00-15:20

Break

Chair: Wei XU ICCAS

15:20-15:40

2A14 Thermoelectric Property of Charge Transfer Complex along with Carrier Transfer Mechanism

Jia Zhu

National Center for Nanoscience and Technology

15:40-16:00

2A15 Ferrimagnetic charge ordering in molecular conductor $\text{TPP}[M(\text{Pc})(\text{CN})_2]_2$

Masahisa Tsuchiizu

Nara Women's University

16:00-16:20

2A16 Molecular design of organic electron acceptors for high performance photovoltaic applications

Hongzheng Chen
Zhejiang University

16:20-16:40

2A17 Computer-based Materials Design and Comprehensive Understanding of Emitters in Organic Light-Emitting Diodes

Hironori Kaji
Kyoto University

<RCMS>

Chair: Gui YU ICCAS

13:20-13:40

2B09 Ambipolar Nickel Dithiolene Complex Semiconductors: from One- to Two-dimensional Electronic Structures Based upon Alkoxy Chain Lengths

Tomoko Fujino
The University of Tokyo

13:40-14:00

2B10 Azulene-Based π -Functional Materials: Design, Synthesis and Applications

Xike Gao
Shanghai Institute of Organic Chemistry

14:00-14:20

2B11 Conduction band structure of organic semiconductors and partially-dressed polaron formation

Hiroyuki Yoshida
Chiba University

14:20-14:40

2B12 Some Approaches for Highly Efficient Polymer Solar Cells

Junwu Chen
South China University of Technology

14:40-15:00

2B13 Optical Study of an Organic Dirac Electronic System α -(BEDT-TTF)₂I₃ under Pressure

Yuto Nakamura
Nagoya University

15:00-15:20

Break

Chair: Yuto NAKAMURA Nagoya University

15:20-15:40

2B14 Fullerene/Porphyrin Cocrystal Nanoribbons
Takatsugu Wakahara
NIMS(National Institute for Materials Science)

15:40-16:00

2B15 Organic hole-transporting materials for perovskite solar cells
Yongzhen Wu
East China University of Science and Technology

16:00-16:20

2B16 Materials for Photon Energy Storage: A New Challenge of Organic Charge Transfer Salts
Toshio Naito
Ehime University

16:20-16:40

2B17 Intrinsically Stretchable Polymeric Materials and Photodetectors
Yunlong Guo
Institute of Chemistry, Chinese Academy of Sciences

December 9

<Conference Hall>

Chair: Masahisa TSUCHIIZU Nara Women's University

9:00-9:20

3A01 Emergence of Spinmerism for Molecular Spin-Qubits Generation
Vincent Robert
Université de Strasbourg

9:20-9:40

3A02 Visualizing the multi-level assembly structures of conjugated polymers with chain-length dependent aggregation behavior
Jian Pei
Peking University

9:40-10:00

3A03 Dielectric properties of weakly coupled spin-triangle
Yuko Hosokoshi
Osaka Metropolitan University

10:00-10:20

Break

Plenary Lecture

Chair: Toshio NAITO Ehime University

10:20-11:00

PL-2 Research Progress of Photovoltaic Materials for Polymer Solar Cells

Yongfang Li

Institute of Chemistry, Chinese Academy of Sciences

11:00-11:20

Closing remarks