

2021/10/01 10:00

Sp18	2021/10/01	10:00 – 12:00	Rm1
5Rm101-05	Sp18. Inkjet printing technology for display (Organizer: K.T.Kang)		
Chairperson:Kyung-Tae Kang(Korea Institute of Industrial Technology), Kwan Hyun Cho(Korea Institute of Industrial Technology)			

5Rm101-05-01 10:00 – 10:25 Invited
Optimizing the Annealing Temperature and Post-treatment for Inkjet Printed Quantum Dot Light-Emitting Diodes
*Kwan Hyun Cho[1], Young Joon Han[1], Kyung-Tae Kang[1]

1. Korea Institute of Industrial Technology (KITECH) (Korea)

5Rm101-05-02 10:25 – 10:50 Invited
AI-assisted inkjet waveform design and drop drying in vacuum
*Sungjune Jung[1]

1. Pohang University of Science and Technology (Korea)

5Rm101-05-03 10:50 – 11:15 Invited
Continuous Inkjet Printing (CIJ) for additive manufacturing from jetting modulation to deposition control: an application of selective area coating
*KYE SI KWON[1], Thanh Huy Phung[2]

1. Soonchunhyang university (Korea), 2. Korean Institute of Machinery and Materials (Korea)

5Rm101-05-04 11:15 – 11:40 Invited
Solvent formulation for Inkjet Printed OLED: Investigating effect of pixel confinement and drying condition
*Byung Doo Chin[1]

1. Dankook University (Korea)

5Rm101-05-05 11:40 – 11:55
Ag ink-jet printed auxiliary electrode for luminance uniformity improvement of OLED lighting device
*Sung-min Sim[1], Jun Ho Yu[1], Kwan-Hyun Cho[1], Sang-Ho Lee[1]

1. Korea Institute of Industrial Technology (Korea)

Break

Sp10 2021/10/01 10:00 - 12:00 Rm2
5Rm201-06 Sp10. Dynamic exciton (Organizer: H.Kaji)

Chairperson:Hironori Kaji(Kyoto Univ.), Yutaka Ie(Osaka Univ.)

5Rm201-06-01 10:00 - 10:20 Invited

Conformation change and electronic de-coupling via intramolecular singlet fissions

*Yasuhiro Kobori[1], Masaaki Fuki[1], Shunta Nakamura[2], Hayato Sakai[2], Taku Hasobe[2], Nikolai Tkachenko[3]

1. Kobe University (Japan), 2. Keio University (Japan), 3. Tampere University (Finland)

5Rm201-06-02 10:20 - 10:40 Invited

Theoretical Study on Donor-Acceptor-Linked Molecules

*Masahiro Higashi[1]

1. Kyoto Univ. (Japan)

5Rm201-06-03 10:40 - 11:00 Invited

Photo-Control of the Membrane Potential of Living Cells with Donor-Acceptor-Linked Molecule

*Tatsuya Murakami[1,2]

1. Toyama Prefectural University (Japan), 2. Kyoto University (Japan)

5Rm201-06-04 11:00 - 11:20 Invited

Charge Carrier Dynamics at the Heterojunctions Studied by Transient Absorption Spectroscopy

*Akira Yamakata[1], Kosaku Kato[1]

1. Toyota Technological Institute (Japan)

5Rm201-06-05 11:20 – 11:40 Invited
Catalytic Allylation of Aldehydes Using Feedstock Alkenes

*Harunobu Mitsunuma[1], Shun Tanabe[1], Motomu Kanai[1]

1. The University of Tokyo (Japan)

5Rm201-06-06 11:40 – 12:00 Invited
Synthesis and photophysical properties of cyclometalated platinum(II) complexes having arylborane/amino moieties

*Eri Sakuda[1]

1. Nagasaki University (Japan)

Sp19	2021/10/01	10:00 – 12:00	Rm3
5Rm301-05	Sp19. Scalable photonics and metamaterials – from fundamentals to wearable applications (Organizer: V.C.Lee)		
	Chairperson: Vincent C. Lee (National University of Singapore)		

5Rm301-05-01 10:00 – 10:25 Invited
Flexible and Printable Metamaterials: from Radiation to Conduction

*Tiancheng Han[1], Cheng-Wei Qiu[2]

1. University of Electronic Science and Technology of China (China), 2. National University of Singapore (Singapore)

5Rm301-05-02 10:25 – 10:50 Invited
Active Control of Nanodielectric-Induced THz Quasi-BIC in Flexible Metasurfaces: A Platform for Modulation and Sensing
Thomas Tan[1], Yogesh Kumar Srivastava[1], Rajour Tanyi Ako[2], Wenhao Wang[3], Madhu Bhaskaran[2], Sharath Sriram[2], Ibraheem Al-Naib[4], Eric Plum[5], *Ranjan Singh[1]

1. Nanyang Technological University, SPMS, CDPT (Singapore), 2. RMIT University, Functional Materials and Microsystems Research Group and the Micro Nano Research Facility (Australia), 3. University of Electronic Science and Technology of

5Rm301-05-03 10:50 – 11:15 Invited
A wireless and flexible wound infection sensor based on DNA hydrogel

*Ze Xiong[1], John S Ho[1]

1. National University of Singapore (Singapore)

5Rm301-05-04 11:15 - 11:40 Invited
Artificial Synapses based on Transition Metal Dichalcogenides for Neuromorphic Computing

*Kah-Wee Ang[1]

1. National University of Singapore (Singapore)

5Rm301-05-05 11:40 - 12:00 Invited
2D Transition Metal Dichalcogenides for Infrared Light Sensing

*Jinghua Teng[1], Meng Zhao[1], Steve Qingyang Wu[1]

*1. IMRE, A*STAR, Singapore (Singapore)*

2021/10/01 14:00

Sp06	2021/10/01	14:00 - 16:00	Rm1
5Rm106-10	Sp06. Innovative methods for device fabrications and materials synthesis (Organizer: T.Shimada)		
	Chairperson: Takashi Yanase (Toho University), Toshihiro Shimada (Hokkaido University)		

5Rm106-10-01 14:00 - 14:25 Invited
Co-evaporant induced crystallization in vacuum for growth and crystallinity control of organic thin film devices
*Toshihiko Kaji[1]

1. Tokyo University of Agriculture and Technology (Japan)

5Rm106-10-02 14:25 - 14:50 Invited
Single Crystal Growth of π -Conjugated Molecules without solubilizing alkyl chains by Naphthalene Flux Method
*Takashi Yanase[1], Hirohiko Tanoguchi[2], Toshihiro Shimada[2]

1. Toho University (Japan), 2. Hokkaido University (Japan)

5Rm106-10-03 14:50 - 15:15 Invited
Physical Vapor Deposition of Fluoropolymer Thin Films for Flexible Functional Coating
*Hiroaki Usui[1]

1. Tokyo University of Agriculture and Technology (Japan)

5Rm106-10-04 15:15 - 15:40 Invited

Transfer Process of Epitaxially Grown Functional Oxides onto Flexible Polymer Sheets without Cracking and Exfoliation

*Hiroaki Nishikawa[1], Tomofumi Mizuyama[2], Norimitsu Hirosaki[3]

1. Faculty of Biology-Oriented Science and Technology, Kindai University (Japan), 2. Graduate School of Biology-Oriented Science and Technology, Kindai University (Japan), 3. Taiyo Industrial Co., LTD (Japan)

5Rm106-10-05 15:40 - 16:00 Invited

Graphitic Carbon Nitride Based Photocatalysts: Design, Synthesis and Properties Investigation

*Wei Liu[1]

1. China three gorges university (China)

Sp10 2021/10/01 14:00 - 16:00 Rm2

5Rm207-11 Sp10. Dynamic exciton (Organizer: H.Kaji)

Chairperson:Hiroshi Imahori(Kyoto Univ.), Yasuhiro Kobori(Kobe Univ.)

5Rm207-11-01 14:00 - 14:20 Invited

Nanometer-Scale Spatial Evaluation of Dynamic Exciton by Transient Microwave Spectroscopy

*Akinori Saeki[1]

1. Osaka University (Japan)

5Rm207-11-02 14:20 - 14:40 Invited

Design and realization of excellent emitters in OLEDs: the dynamic effect

*Hironori Kaji[1]

1. Kyoto Univ. (Japan)

14:40 - 15:00

Break

5Rm207-11-03 15:00 – 15:20 Invited

Nonfullerene Acceptors for Organic Solar Cells: Influence of Surface Free Energy and Dipole Moment on Film Morphologies

*Yutaka Ie[1]

1. Osaka University (Japan)

5Rm207-11-04 15:20 – 15:40 Invited

Alkyl Substituent Engineering for Efficient Photoconversion Efficiency in Small Molecular Organic Photovoltaics

*Hiroko Yamada[1], Mitsuharu Suzuki[2]

1. Nara Institute of Science and Technology (Japan), 2. Osaka University (Japan)

5Rm207-11-05 15:40 – 16:00 Invited

Solid-state NMR analysis of materials in organic semiconductors

*Katsuaki Suzuki[1], Hironori Kaji[1]

1. Kyoto Univ. (Japan)