Schedule

A-COE2021 Schedule

DATE	2, September	3, September	4, September
9:00	Oping remark	Plenary2 Prof. J. Kido	VIP4-1 Y.-Y. Noh
	Plenary1 C. Adachi		VIP4-2 S. Park
		VIP3-1 M. Mamada	VIP4-3 F. Zhu
10:00	VIP2-1 J. J. Kim	VIP3-2 T. Chiba	VIP4-4 C.-L. Wang
	VIP2-2 L. Xiao	Break	VIP4-5 S. Biring
	Break	VIP3-3 T.-W. Lee	Break
11:00	VIP2-3 H. Sasabe	VIP3-4 T. Matsushima	VIP4-6 P. Sonar
	VIP2-4 K.-T. Wong	VIP3-5 H. Fukagawa	VIP4-7 T. Nagase
	VIP2-5 S. Gong	VIP3-6 H. Cho	VIP4-8 J.-Y. Chen
12:00	Lunch	Lunch	VIP4-9 J. Tang
			Introduction of A-COE2021
			Colosing remark
13:00	VIP2-6 H. Kaji	VIP3-7 D. Zou	
	VIP2-7 F. Li	VIP3-8 H.-W. Lin	
	VIP2-8 Y.-T. Lee	VIP3-9 R. Murdey	
14:00	VIP2-9 S. Izawa	VIP3-10 J.-Y. Lee	
	Break	VIP3-11 T. Park	
	VIP2-10 Y. Chi	Break	
	VIP2-11 J. Y. Lee		
15:00	VIP2-12 J.-H. Lee	VIP3-12 I. Osaka	
	VIP2-13 N. Aizawa	VIP3-13 Y.-J. Cheng	
	Break	VIP3-14 Z. Ge	
16:00	VIP2-14 C.-S. Lee	VIP3-15 C. P. Chen	
	VIP2-15 S.-W. Liu	Break	
	VIP2-16 S. Yoo	POSTER Sessions	
17:00	VIP2-17 J.-W. Kim		
	VIP2-18 Y. Tanaka		
	VIP2-19 B. H. Pal		
18:00			

Program

2nd, September, 2021 (Tuursday)

9:15-9:20 Opening remark: Prof. Tatsuo Mori (Aichi Institute of Technology, Japan)

9:20-10:00 Chair: Prof. Tatsuo Mori (Aichi Institute of Technology, Japan)

Plenary 1

"Rational Molecular and Device Architecture Design for Hyperfluorescence OLED"

Yi-Ting Lee[a], Chin-Yiu Chan[a], Masaki Tanaka[a], Masashi Mamada[a], Kenichi Goushi[a], Xun Tang[a], Youichi Tsuchiya[a], Hajime Nakanotani[a,b], Chihaya Adachi[a,b]

[a]Center for Organic Photonics and Electronics Research (OPERA), Kyushu University, Japan

[b]International Institute for Carbon Neutral Energy Research (I2CNER), Kyushu University, Japan

10:00-12:00 ***TADF Devices***

Chair: Prof. Jeong-Hwan Lee (Inha University, Korea)

Chair: Prof. Prashant Sonar (Queensland University of Technology, Australia)

Chair: Prof. Hironori Kaji (Kyoto University, Japan)

10:00-10:20 VIP2-1

"**High Efficiency Deep Blue OLEDs" [Invited]**

Hyungcheol Lim[a], Yun-Hi Kim[b] and Jang-Joo Kim[a]

[a] Department of Materials Science and Engineering, Seoul National University, Korea

[b] Department of Chemistry and RIGET, Gyeongsang National University, Korea

10:20-10:40 VIP2-2

"Long-lived Electron-Transporting Materials" [Invited]

Jiannan Gu, Zhenyu Tang, Haoqing Guo, Zhijian Chen and Lixin Xiao

Department of Physics, Peking University, China

10:40-11:00 Break

11:00-11:20 VIP2-3

"Multifunctional Smart Hole-Transporters Realizing High-Efficiency and Stable TADF OLEDs" [Invited]

Hisahiro Sasabe

Department of Organic Material Science, Graduate School of Organic Materials Science, Research Center for Organic Electronics (ROEL), Frontier Center for Organic Materials (FROM), Yamagata

University, Japan

11:20-11:40 VIP2-4

"A Rational Molecular Design for New High Efficiency TADF Emitter" [Invited]

Chih-Lun Yi[a], Chun-Yen Lin[a], Ken-Tsung Wong[a], Chun-Yu Wang[b], Yukun Tang[b], Chung-Chih Wu[b]

[a]Department of Chemistry, [b]Department of Electrical Engineering, National Taiwan University, Taiwan

11:40-12:00 VIP2-5

"Horizontally Oriented Thermally Activated Delayed Fluorescence (TADF) Emitters" [Invited]

Shaolong Gong[a]*, Chung-Chih Wu[b], Chuluo Yang[a]

[a]Department of Chemistry, Wuhan University, China

[b]Department of Electrical Engineering, National Taiwan University, Taiwan

12:00-13:00 Lunch Time

13:00-15:50 ***OLEDs Mchanism/Control***

Chair: Prof. Ken-Tsung Wong (National Taiwan University, Taiwan)

Chair: Prof. Furong Zhu (Hong Kong Baptist University, China)

Chair: Prof. Hisahiro Sasabe (Yamagata University, Japan)

13:00-13:20 VIP2-6

"Material Design Realizing Ultrafast Reverse Intersystem Crossing in Purely Organic Emitter and Quantitative Prediction of Rate Constants for All Types of Electronic Transitions" [Invited]

Hironori Kaji

Institute for Chemical Research, Kyoto University, Japan

13:20-13:40 VIP2-7

"Doublet Emission from Radical Materials and Devices" [Invited]

Feng Li

State Key Laboratory of Supramolecular Structure and Materials, College of Chemistry, Jilin University, China

13:40-14:00 VIP2-8

"Investigating HOMO Energy Levels of Terminal Emitters for Realizing High-Brightness and

Stable TADF-Assisted Fluorescence Organic Light-Emitting Diodes" [Invited]

Yi-Ting Lee[a], Chin-Yiu Chan[a], Masaki Tanaka[a], Masashi Mamada[a], Umamahesh Balijapalli[a], Youichi Tsuchiya[a], Hajime Nakanotani[a], Takuji Hatakeyama[b], Chihaya Adachi[a]

[a]Center for Organic Photonics and Electronics Research, Kyushu University, Japan Department of [b]Chemistry, School of Science and Technology, Kwansei Gakuin University, Japan

14:00-14:20 VIP2-9

"Upconversion Emission at Organic Semiconductor Interface" [Invited]

Seiichiro Izawa

Institute for Molecular Science, The Graduate University for Advanced Studies (SOKENDAI), Japan

14:20-14:30 Break

14:30-14:50 VIP2-10

"Efficient Near-infrared Electroluminescence from Pt(II) and Os(II) Phosphors" [Invited]

Yun Chi

Department of Materials Science and Engineering, Department of Chemistry and Center of Super-Diamond and Advanced Films (COSDAF), City University of Hong Kong, China

14:50-15:10 VIP2-11

"Device Engineering for Long Lifetime Blue Organic Light-Emitting Diodes" [Invited]

Jun Yeob Lee

School of Chemical Engineering, Sungkyunkwan University, Korea

15:10-15:30 VIP2-12

"The Role of Emitters and Host Molecules in OLEDs" [Invited]

Jeong-Hwan Lee

Dept. of Materials Science and Engineering & 3D Convergence Center, Inha University, Korea

15:30-15:50 VIP2-13

"Delayed Fluorescence from Energetically Inverted Singlet and Triplet Excited States" [Invited]

Naoya Aizawa[a,b]

[a]RIKEN Center for Emergent Matter Science (CEMS), [b]PRESTO Japan Science and Technology Agency, Japan

15:50-16:00 Break

16:00-18:00 ***For Fabrication/Application***

Chair: Prof. Jang-Joo Kim (Seoul National University, Korea)

Chair: Prof. Lixin Xiao (Peking University, China)

Chair: Prof. Takashi Nagase (Osaka Prefecture University, Japan)

16:00-16:20 VIP2-14

"Organic Electronic Materials for Novel Biomedical, Energy and Environmental Applications" [Invited]

Chun-Sing Lee

Center of Super-Diamond and Advanced Films (COSDAF) & Department of Chemistry, City University of Hong Kong, China

16:20-16:40 VIP2-15

"Transparent Organic Electronics: Up-Conversion Devices and Photovoltaics" [Invited]

Shun-Wei Liu[a], Chih-Chien Lee[b], Sajal Biring[a]

[a]Organic Electronics Research Center and Department of Electronic Engineering, Ming Chi University of Technology, Taiwan

[b]Department of Electronic Engineering, National Taiwan University of Science and Technology, Taiwan

16:40-17:00 VIP2-16

"Progress in Solvent-free Organic Jet Printing" [Invited]

Seunghyup Yoo, Sungyeon Kim, Jaehyeok Park

School of Electrical Engineering, KAIST, Korea

17:00-17:20 VIP2-17

"Wearable Organic Optoelectronic Devices using Printing Process" [Invited]

Jae-Wook Kang

Department of Flexible and Printable Electronics, Jeonbuk National University, Korea

17:20-17:40 VIP2-18

"Enhanced Stability Against Light Irradiation in Electret-Based Vibrational Energy Generators Composed of OLED Materials" [Invited]

Yuya Tanaka[a,b], Noritaka Matsuura[b], Yuki Tazo[b], Hideyuki Kayaguchi[b], Hisao Ishii[a,b,c]

[a]Center for Frontier Science, [b]Graduate School of Science and Engineering, [c]Molecular Chirality Research Center, Chiba University, Japan

17:40-18:00 VIP2-19

"Solution-Processed Narrow Band Photodetector" [Invited]

Bhola Nath Pal

School of Materials Science and Technology, Indian Institute of Technology (BHU), India

3rd, September, 2021 (Friday)

9:00-9:40 Chair: Prof. Yoshiyuki Seike (Aichi Institute of Technology, Japan)

Plenary 2

"Current Status and Future Prospects of Solution Processable Organic LEDs"

Junji Kido

Frontier Center for Organic Materials, Yamagata University, Japan

9:40-12:00 ***OLD/PeLED/QLED***

Chair: Prof. Chun-Sing Lee (City University of Hong Kong, China)

Chair: Prof. Jun Yeob Lee (Sungkyunkwan University, Korea)

Chair: Prof. Yuya Tanaka (Chiba University, Japan)

9:40-10:00 VIP3-1

"Development of Highly Emissive Laser Dyes for Organic Semiconductor Laser Diodes" [Invited]

Masashi Mamada, Chihaya Adachi

Center for Organic Photonics and Electronics Research (OPERA), Kyushu University, Japan

10:00-10:20 VIP3-2

"Surface Crystal Growth of Perovekite Nanocrystal for High Colloidal Stability and Efficient Leds" [Invited]

Takayuki Chiba, Yoshihito Takahashi, Hinako Ebe, Junji Kido

Graduate School of Organic Materials Science, Yamagata University

10:20-10:40 Break

10:40-11:00 VIP3-3

"Comprehensive Defect Passivation Strategies for Efficient Perovskite Nanocrystal Light-Emitting Diodes" [Invited]

Young-Hoon Kim(+)[a,b], Sungjin Kim(+)[a,b], Arvin Kakekhani(+)[c], Jinwoo Park[a,b], Jaehyeok Park[d], Yong-Hee Lee[a], Hengxing Xu[e], Satyawan Nagane[f], Robert B. Wexler[c], Dong-Hyeok Kim[a,b], Seung Hyeon Jo[aa,b], Laura Martínez-Sarti[g], Peng Tan[c,h], Aditya Sadhanala[f,i], Gyeong-Su Park[a], Young-Woon Kim[a], Bin Hu[e], Henk J. Bolink[g], Seunghyup Yoo[d], Richard H. Friend[f], Andrew M. Rappe[c], Tae-Woo Lee[a,b]

[a]Department of Materials Science and Engineering, Seoul National University, Korea

[b]School of Chemical and Biological Engineering, Institute of Engineering Research, Research Institute of Advanced Materials, Nano Systems Institute, Seoul National University, Korea

[c]Department of Chemistry, University of Pennsylvania, USA

[d]School of Electrical Engineering, Korea Advanced Institute of Science and Technology, Korea

[e]Department of Materials Science and Engineering, University of Tennessee, USA

[f]Cavendish Laboratory, University of Cambridge, UK

[g]Instituto de Ciencia Molecular, Universidad de Valencia, Spain

[h]Department of Physics, Harbin Institute of Technology, China

[i]Clarendon Laboratory, Department of Physics, University of Oxford, UK

11:00-11:20 VIP3-4

"Vacuum-Deposition Engineering for High Performance Organic Electronic Devices"

Toshinori Matsushima[a,b], Yu Esaki[b,c], Chihaya Adachi[a,b,c]

[a]WPI-I2CNER, Kyushu University, [b]JST ERATO, Adachi Molecular Exciton Engineering, [c]OPERA, Kyushu University, Japan

11:20-11:40 VIP3-5

"Unraveling Electron Injection/Transport Mechanism in OLEDs" [Invited]

Hirohiko Fukagawa

NHK Science & Technology Research Laboratories, Japan

11:40-12:00 VIP3-6

"Photoresist-Free Direct Optical Patterning of Quantum Dot Light-Emitting Diodes" [Invited]

Himchan Cho

The Department of Materials Science and Engineering, Korea Advanced Institute of Science and Technology (KAIST), Korea

12:00-13:00 Lunch

13:00-14:40 ***Perovskite Solar Cells&Applications***

Chair: Prof. Shun-Wei Liu (Ming Chi University of Technology, Taiwan)

Chair: Prof. Yong-Young Noh (POSTECH, Korea)

Chair: Prof. Toshinori Matsushima (Kyushu University, Japan)

13:00-13:20 VIP3-7

"Mechanochemical Synthesis of Organic–inorganic Hybrid Perovskite Materials" [Invited]

Dechun Zou

College of Chemistry, Peking University, China

13:20-13:40 VIP3-8

"Halide Perovskites for Quantum Emitters and Neuromorphic Computing Applications" [Invited]

Hao-Wu Lin

Department of Materials Science and Engineering, National Tsing Hua University, Taiwan

13:40-14:00 VIP3-9

"Strategies for Assessing and Improving the Stability of Perovskite Solar Cells" [Invited]

Richard Murdey, Yuko Matsushige, Yasuhisa Ishikura, Yasuko Iwasaki, Minh Anh Truong, Tomoya Nakamura, Atsushi Wakamiya

Institute for Chemical Research, Kyoto University, Japan

14:00-14:20 VIP3-10

"Mediating Colloidal Quantum Dot/Organic Semiconductor Interfaces for Efficient Hybrid Solar Cells" [Invited]

Jung-Yong Lee

Electrical Engineering, KAIST, Korea

14:20-14:40 VIP3-11

"Green Processable Semiconducting Polymers for Colloidal Quantum Dots Solar Cells" [Invited]

Taiho PARK

Chemical Engineering, Pohang University of Science and Technology (POSTECH), Korea

14:40-15:00 Break

15:00-16:20 ***OPVs***

Chair: Prof. Tae-Woo Lee (Seoul National University, Korea)

Chair: Prof. Hao-Wu Lin (National Tsing Hua University, Taiwan)

Chair: Prof. Takayuki Chiba (Yamagata University, Japan)

15:00-15:20 VIP3-12

"Design and Synthesis of π-Conjugated Polymers for Highly Efficient Organic Solar Cells" [Invited]

Itaru Osaka

Graduate School of Advanced Science and Engineering, Hiroshima University, Japan

15:20-15:40 VIP3-13

"Design and Synthesis of Organic Functional Materials for Organic Photovoltaics" [Invited]

Yen-Ju Cheng

Department of Applied Chemistry, National Yang Ming Chiao Tung University, Taiwan

15:40-16:00 VIP3-14

"Highly Efficient Organic Solar Cells" [Invited]

Wei Song, Zhenyu Chen, Jinfeng Ge, Ziyi Ge

Ningbo Institute of Materials Technology & Engineering, Chinese Academy of Sciences, China

16:00-16:20 VIP3-15

"High Performance Ternary Organic Photovoltaics and Photodetectors through Judicious Selection of the Third Components" [Invited]

Chih-Ping Chen

Department of Materials Engineering, Ming Chi University of Technology, Taiwan

16:20-16:30 Break

16:30-18:10 Poster session (Zoom)

4th, September, 2021 (Saturday)

9:00-10:40 ***OFET/Memory/Sensor1***

Chair: Prof. Jung-Yong Lee (KAIST, Korea)

Chair: Prof. Sajal Biring (Mingchi University of Technology, Taiwan)

Chair: Prof. Takashi Nagase (Osaka Prefecture University, Japan)

9:00-9:20 VIP4-1

"Development of High Performance Halide Perovskite Transistors and Photosensors" [Invited]

Yong-Young Noh

Pohang University of Science and Technology (POSTECH), Korea

9:20-9:40 VIP4-2

"Microfluidic Channel Embedded Solution Shearing for Optimization of Organic Thin-film Transistors" [Invited]

Jeong-Chan Lee[a], Jaewook Nam[b], Steve Park[a]

[a]Department of Materials Science and Engineering, KAIST, Korea

[b]School of Chemical and Biological Engineering and Institute of Chemical Process, Seoul National University, Korea

9:40-10:00 VIP4-3

"**Narrowband Near-infrared Perovskite/Polymer Hybrid Photodetectors" [Invited]**

Zhaojue Lan, Linfeng Cai, and Furong Zhu

Department of Physics, Research Centre of Excellence for Organic Electronics, and Institute of Advanced Materials, Hong Kong Baptist University, China

10:00-10:20 VIP4-4

"Multi-scale Structure-Property Relationship of S,N-heteroacenes" [Invited]

Yi-Fan Huang[a], Chin-Lung Chung[b], Chun-Kai Wang[b], Guan-Ting Ciou[a], Ken-Tsung Wong[b], Chien-Lung Wang[a]

[a]Department of Applied Chemistry, National Yang Ming Chiao Tung University, [b]Department of Chemistry, National Taiwan University, Taiwan

10:20-10:40 VIP4-5

"On Improving the Sensitivity of an Optical Oxygen Sensor and Development of an Optical Dual Gas Sensor" [Invited]

Sajal Biring, Annada Sankar Sadhu, Moumita Deb

Department of Electronic Engineering and Organic Electronic Research Center, Mingchi University of Technology, Taiwan

10:40-11:00 Break

11:00-12:40 ***OFET/Memory/Sensor2***

Chair: Prof. Dechun Zou (Peking University, China)

Chair: Prof. Steve Park (KAIST, Korea)

Chair: Prof. Itaru Osaka (Hirishima University, Japan)

11:00-11:20 VIP4-6

"High Performance Organic Semiconductors for Photonics and Electronics" [Invited]

Prashant Sonar

Molecular Design and Synthesis Discipline, School of Chemistry, Physics and Mechanical Engineering, Queensland University of Technology, Australia

11:20-11:40 VIP4-7

"Solution-Processable Organic Floating-Gate Transistors Toward Printed Nonvolatile Memory and Image Sensor Applications" [Invited]

Takashi Nagase

Department of Physics and Electronics, Osaka Prefecture University, Japan

11:40-12:00 VIP4-8

"Non-Volatile Photomemory with a Ultrafast and Multi-Level Memory Behavior" [Invited]

Jung-Yao Chen

National Cheng Kung University, Taiwan

12:00-12:20 VIP4-10

"Synergistical Electroluminescent Manipulation for Efficient Perovskite Light-Emitting Diodes" [Invited]

Jianxin Tang[a], Yang Shen[a], Yanqing Li[b]

[a]Institute of Functional Nano & Soft Materials (FUNSOM), Soochow University, China

[b]School of Physics and Electronic Science, East China Normal University, China

12:20-12:30 Introduction of A-COE2022

12:30-12:35 Closing remark: Prof. Tatsuo Mori (Aichi Institute of Technology, Japan)

Poster Sessions **16:30-18:10, 3rd, September**

A. Emitting Devices(OLEDs, OLDs, PeLEDs)

PA-1 Detailed Explanation of the Increased Driving Voltage in a TADF Exciplex Host OLED during Prolonged Operation via a Quantitative Device Model

M. Regnat[a,b], K. P. Pernstich[a], S. Jenatsch[b], B. Ruhstaller[a,b], ([a]Institute of Computational Physics, Zurich University of Applied Sciences, [b]Fluxim AG, Switzerland)

PA-2 Analysing the Effect of Emitter Concentration on Charge Transport in a TADF OLED

S. Sem[a,b], P. Sahay[b], S. Jenatsch[a], S. Züfle[a,c], M. Schmid[b],W. Brütting[b] and B. Ruhstaller[a,c], ([a]Fluxim AG, Switzerland , [b]Institute of Physics, University of Augsburg, Germany, [c]Institute of Computational Physics, Zurich University of Applied Sciences, Switzerland)

PA-3 Development of High-Throughput Subnanosecond Time-Resolved Photoluminescence Spectrometer

Minori Furukori[a,b], Yasushi Nagamune[b], Yasuo Nakayama[a,b], Takuya Hosokai[b], ([a]Tokyo University of Science, [b]National Institute of Advanced Industrial Science and Technology (AIST), Japan)

PA-4 Role of a Charge-Transfer Interface in Blue TTU-OLEDs

Thanh Ba Nguyen[a], Hajime Nakanotani[a,b], and Chihaya Adachi[a,b], ([a]Center for Organic Photonics and Electronics Research (OPERA) and Department of Applied Chemistry, [b]International Institute for Carbon Neutral Energy Research (WPI-I2CNER) Kyushu University, Japan)

PA-5 Quasi-Planar TADF Molecular Design Towards Pure Violet-Blue Electroluminescence and Organic Laser

Xun Tang[a], Aziz Khan[b], Zuo-Quan Jiang[b] and Chihaya Adachi[a], ([a] Center for Organic Photonics and Electronics Research (OPERA), Kyushu University, Japan, [b] Institute of Functional Nano & Soft Materials (FUNSOM), Soochow University, Taiwan)

PA-6 A New Molecular Design Realizing Very Fast Reverse Intersystem Crossing

Yu Kusakabe, Yoshimasa Wada, Hiromichi Nakagawa, Katsuyuki Shizu, Hironori Kaji, (Institute for Chemical Research Kyoto University, Japan)

PA-7 Suppressing Intermolecular Interactions for Enhancing Exciplex-based OLEDs Performance

Yuan-Cheng Hu[a], Tzu-Chien Huang[b], Wen-Yi Hung[b], and Ken-Tsung Wong[a], ([a]National Taiwan University, [b]National Taiwan Ocean University, Taiwan)

PA-8 A Molecular Design Achieving Very Fast Reverse Intersystem Crossing

Yongxia Ren, Yoshimasa Wada, Katsuaki Suzuki, Yu Kusakabe, Jan Geldsetzer, Hironori Kaji, (Institute for Chemical Research Kyoto University, Japan)

PA-9 Quantitative Prediction of Internal Conversion Rate Constant for the Screening of Singlet Fission Materials

Katsuyuki Shizu[a], Chihaya Adachi[b,c,d], Hironori Kaji[a], ([a]Institute for Chemical Research, Kyoto University, [b]Center for Organic Photonics and Electronics Research (OPERA), Kyushu University, [c]Japan Science and Technology Agency (JST), ERATO, [d]International Institute for Carbon Neutral Energy Research (WPI-I2CNER), Kyushu University, Japan)

PA-10 Substitution Effect on Carbazole-Centered Donors for Tuning Exciplex Systems as Cohost for Highly Efficient Yellow and Red OLEDs

Li-Ming Chen[a], I-Hung Lin[b], Yu-Chi You[a], Wei-Chih Wei[a], Meng-Ju Tsai[a], Wen-Yi Hung[b], Ken-Tsung Wong[a], ([a]National Taiwan University, [b]National Taiwan Ocean University, Taiwan)

PA-11 Low-Cost and Quantitative Prediction of Rate Constants: Application to Decay Mechanism of Benzophenone

Katsuyuki Shizu, Hironori Kaji, (Institute for Chemical Research Kyoto University, Japan)

PA-12 A Laser Model Involving the Effect of TADF Upconversion

Ayano Abe[a], Kenichi Goushi[a,b], Ryutaro Komatsu[b], Takashi Fujihara[b], Masashi Mamada[a,b], and Chihaya Adachi[a,b], ([a]Kyushu University, [b]Center for Organic Photonics and Electronics Research (OPERA), Kyushu University, Japan)

PA-13 Facile Synthesis of Multi-Resonance Ultra-Pure-Green TADF Emitters Based on Bridged Diarylamine Derivatives for Efficient OLEDs with Narrow Emission

Guanting Liu[a], Hisahiro Sasabe[a,b,c], Kengo Kumada[a], Amane Matsunaga[a], Hiroshi Katagiri[a,b,c], Junji Kido[a,b,c], ([a]Department of Organic Materials Science, Graduate School of Organic Materials Science, [b]Research Center for Organic Electronics (ROEL), [c]Frontier Center for Organic Materials (FROM), Yamagata University, Japan)

PA-14 Asymmetric Spirobiacridine-based Delayed Fluorescence Emitters for High-

performance Organic Light-Emitting Devices

Hiroki Arai[a], Hisahiro Sasabe[a,b,c], Hisaki Tsuneyama[a], Kengo Kumada[a], and Junji Kido[a,b,c], ([a]Department of Organic Materials Science, Graduate School of Organic Materials Science, [b]Frontier Center for Organic Materials (FROM), [c]Research Center for Organic Electronics (ROEL), Yamagata University, Japan)

PA-15 Highly Efficient and Exciplex Organic Light-Emitting Diodes with Phenylcarbazole Based Molecules

Dian Luo[a,b], Shun-Wei Liu[b], ([a]Institute of Lighting and Energy Photonics, National Yang Ming Chiao Tung University, [b]Organic Electronics Research Center and Department of Electronic Engineering, Ming Chi University of Technology, Taiwan)

PA-16 High-Efficiency Perovskite Nanocrystal Light-Emitting Diodes via Reduced Interfacial Quenching

Sungjin Kim[a], Tae-Woo Lee[a,b], ([a]Department of Materials Science and Engineering, [b]School of Chemical and Biological Engineering, Institute of Engineering Research, Research Institute of Advanced Materials, Nano Systems Institute, Seoul National University, Korea)

PA-17 OLEDs with On-Demand Patterns Drown by Ink-Jet Printing

M. Sugimoto[a], Y. Fukuchi[b], H. Tsuruta[b], M. Koden[a], H. Nakada[a], T. Yukia[a], ([a]Innovation Center for Organic Electronics (INOEL), Yamagata University, [b]TOYOCHEM CO. LTD., Japan)

PA-18 Study of Transport Mechanism in Laminated Structures of TAPC and mCP Used in High-Performance OLEDs

Ryo Sato, Rina Yamashita, Yusuke Ichino, Yoshiyuki Seike, Tatsuo Mori, (Department of Electrical and Electronics Engineering, Graduate School of Engineering, Aichi Institute of Technology, Japan)

PA-19 Excited State Dynamics in a Thermally Activated Delayed Fluorescence Emitter Using Time-Resolved Photoluminescence Spectroscopy

H. Kawasaki[a], T. Kobayashi[a], T. Nagase[a], K. Goushi[b], C. Adachi[b], H. Naito[a], ([a]Osaka Prefecture University, [b]Kyushu University, Japan)

B. Organic and Perovskite PVs

PB-1 Colorful Organic Solar Cells with Minor Power Conversion Efficiency Loss

Chun-Jen Shih[a,b], Abdul Khalik Akbar[b], Jiun-Haw Lee[a], Shun-Wei Liu[b], ([a]Graduate Institute of Photonics and Optoelectronics and Department of Electrical Engineering, National Taiwan University,

[b]Organic Electronics Research Center and Department of Electronic Engineering, Ming Chi University of Technology, Taiwan)

PB-2 Fabrication of Perovskite Photoreceptors of Blue-Light for Optical Wireless Power Supply

Arisa Kawai, Ryo Fukami, Yusuke Ichino, Yoshiyuki Seike, and Tatsuo Mori, (Department of Electrical and Electronics Engineering, Graduate School of Engineering, Aichi Institute of Technology, Japan)

PB-3 Operational Stability and Built-in Potential in Nonfullerene Organic Solar Cells

Jiayin Han, Furong Zhu, (Department of Physics, Research Centre of Excellence for Organic Electronics, and Institute of Advanced Materials, Hong Kong Baptist University, China)

PB-4 Spray Treatment of $MAPbI_3$ Layer in Organic Perovskite Solar Cells

Issei Tanaka, Yusuke Ichino, Tastuo Mori and Yoshiyuki Seike, (Department of Electrical and Electronics Engineering, Graduate School of Engineering, Aichi Institute of Technology, Japan)

PB-5 Fabrication of Perovskite Layers Using a New Antisolvent Method

Yotaku Nakashima, Yusuke Ichino, Yoshiyuki Seike, Tatsuo Mori, (Department of Electrical and Electronics Engineering, Graduate School of Engineering, Aichi Institute of Technology, Japan)

C. Organic FET, Sensors and Devices

PC-1 Large-area Oriented Films of Semiconducting Polymers for Polymer Transistor

Manish Pandey, Heriyanto Syafutra, Yuya Sugita, Shyam S. Pandey, Hiraoki Benten, Masakazu Nakamura, (Organic Electronics Laboratory, Division of Materials Science, Nara Institute of Science and Technology, Japan)

PC-2 A Developed Atropine Imprinted Polymer and Its Functionalized Organic Transistor-based Sensor

Qi Zhou, Tsuyoshi Minami, (Institute of Industrial Science, The University of Tokyo, Japan)

PC-3 AC Voltage Superimposed Displacement Current Measurement for Pentacene-based MIS Device

Tatsuhiro Kambayashi[a], Taichi Hiraga[a], Masahiro Ohara[a], Yuya Tanaka[a,b], Hisao Ishii[a,b,c], ([a]Graduate School of Science and Engineering, [b]Center for Frontier Science, [c]Molecular Chirality Research Center, Chiba University, Japan)

PC-4 Stable Nera-Infrared Absorption Organic Photosensitizers with High Reactive Oxygen Species Yield for Multimodality Phototheranostics

Wei-Chih Wei[c], Yingpeng Wan[a], Guihong Lu[b], Jinfeng Zhang[b], Chun-Sing Lee[a], Ken-Tsung Wong[c], ([a]Center of Super-Diamond and Advanced Films (COSDAF) & Department of Chemistry, City University of Hong Kong, China, [b]Key Laboratory of Molecular Medicine and Biotherapy, School of Life Sciences, Beijing Institute of Technology, China, [c]Department of Chemistry, National Taiwan University, Taiwan)

Chairs List

2nd, September (Thursday)

9:20-10:00 ***Plenary1*** Chair: Prof. Tatsuo Mori (Aichi Institute of Technology, Japan)

10:00-12:00 ***TADF Devices***

Chair: Prof. Jeong-Hwan Lee (Inha University, Korea)

Chair: Prof. Prashant Sonar (Queensland University of Technology, Australia)

Chair: Prof. Hironori Kaji (Kyoto University, Japan)

13:00-15:50 ***OLEDs Mchanism/Control***

Chair: Prof. Ken-Tsung Wong (National Taiwan University, Taiwan)

Chair: Prof. Furong Zhu (Hong Kong Baptist University, China)

Chair: Prof. Hisahiro Sasabe (Yamagata University, Japan)

16:00-18:00 ***For Fabrication/Application***

Chair: Prof. Jang-Joo Kim (Seoul National University, Korea)

Chair: Prof. Lixin Xiao (Peking University, China)

Chair: Prof. Takashi Nagase (Osaka Prefecture University, Japan)

3rd, September (Friday)

9:00-9:40 ***Plenary2*** Chair: Prof. Yoshiyuki Seike (Aichi Institute of Technology, Japan)

9:40-12:00 ***OLD/PeLED/QLED***

Chair: Prof. Chun-Sing Lee (City University of Hong Kong, China)

Chair: Prof. Jun Yeob Lee (Sungkyunkwan University, Korea)

Chair: Prof. Yuya Tanaka (Chiba University, Japan)

13:00-14:40 ***Perovskite Solar Cells&Applications***

Chair: Prof. Shun-Wei Liu (Ming Chi University of Technology, Taiwan)

Chair: Prof. Yong-Young Noh (POSTECH, Korea)

Chair: Prof. Toshinori Matsushima (Kyushu University, Japan)

15:00-16:20 ***OPVs***

Chair: Prof. Tae-Woo Lee (Seoul National University, Korea)

Chair: Prof. Hao-Wu Lin (National Tsing Hua University, Taiwan)

Chair: Prof. Takayuki Chiba (Yamagata University, Japan)

4th, September (Saturday)

9:00-10:40 ***OFET/Memory/Sensor1***

Chair: Prof. Jung-Yong Lee (KAIST, Korea)

Chair: Prof. Sajal Biring (Mingchi University of Technology, Taiwan)

Chair: Prof. Takashi Nagase (Osaka Prefecture University, Japan)

11:00-12:40 ***OFET/Memory/Sensor2***

Chair: Prof. Dechun Zou (Peking University, China)

Chair: Prof. Steve Park (KAIST, Korea)

Chair: Prof. Itaru Osaka (Hirishima University, Japan)








Abstracts

Nagoya City Science Museum&

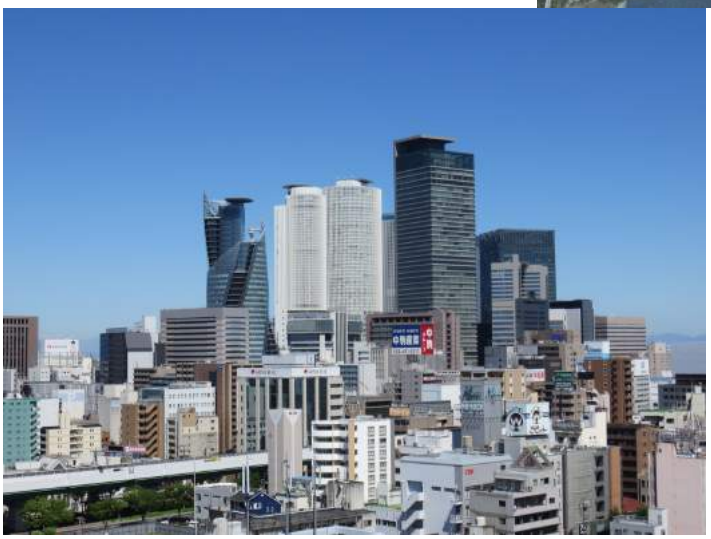
Planetarium

http://www.ncsm.city.nagoya.jp

Sakae area

TV Tower & Hisaya-odori Park

https://www.nagoya-info.jp/spot/detail/91/



Mei-Eki area

(JR Nagoya Station)

Sake are

Oasis 21

https://www.nagoya-info.jp/spot/detail/23/

2021 Nagoya&Toyota