

AGENDA

October 31

Time / Room	Department of Chemistry, National Taiwan University
16:00-17:20	Registration / Welcome Reception

November 1

Time / Room	Song-Pei Lecture Hall	Pan-Kuan Lecture Hall
08:30-09:00	Registration	
09:00-09:20	[Opening Ceremony] Wen-Chang Chen, TW Cheng-Liang Liu, TW (Song-Pei Lecture Hall)	
09:20-10:00	[Plenary Lecture 1] Chair: Pi-Tai Chou, TW Spin Mixing: A Way for OLEDs to be the Ultimate Display? Jang-Joo Kim, Seoul National University, Korea (Song-Pei Lecture Hall)	
10:00-10:20	Break	
10:20-11:00	[Plenary Lecture 2] Chair: Chain-Shu Hsu, TW Printable Organic and Perovskite Solar Cells for Clean Energy Alex Jen, City University of Hong Kong, Hong Kong (Song-Pei Lecture Hall)	
11:00-11:20	Break	
11:20-12:00	[Plenary Lecture 3] Chair: Alex Jen, HK Achieving High Performance Organic Solar Cells with Ladder-Type Conjugated Polymers and Non-fullerene Acceptors Chain-Shu Hsu, National Yang Ming Chiao Tung University, Taiwan (Song-Pei Lecture Hall)	
12:00-13:20	Lunch	
13:20-14:40	[Invited Session 1] Chair: Chih-Ping Chen, TW / Naoki Kishi, JP	[Invited Session 2] Chair: Jang Hyuk Kwon, KR / Ho-Hsiu Chou, TW
(1) 13:20-13:40	Multispectral Organic Photodetectors and Applications Furong Zhu, Hong Kong Baptist University, Hong Kong	Developing Key Performances in OSC Gas Sensors for Biomedical Applications Hsiao-Wen Zan, National Yang Ming Chiao Tung University, Taiwan
(2) 13:40-14:00	Highly Efficient Near-Infrared Optoelectronic Devices based on Narrow-Bandgap Organic Materials Seo-Jin Ko, KRICT, Korea	Development of π-Extended MR-TADF Materials Takuji Hatakeyama, Kyoto University, Japan

November 1

Time / Room	Song-Pei Lecture Hall	Pan-Kuan Lecture Hall
(3) 14:00-14:20	Organic Upconversion Imagers that Exceed Human Perception Shun-Wei Liu, Ming Chi University of Technology, Taiwan	Triplet Excitons for Photon Upconversion in Organic Materials and 'FuLEDs' Le Yang, A*STAR, Singapore
(4) 14:20-14:40	Homogeneously π-Extended Helicenes as Helically Twisted Chiral Molecular Wires Takashi Hirose, Kyoto University, Japan	Progress in Deformable OLEDs and Their Applications in Healthcare Seunghyup Yoo, KAIST, Korea
14:40-15:00	Break	
15:00-16:00	[Invited Session 3] Chair: Furong Zhu, HK / Kilwon Cho, KR	[Invited Session 4] Chair: Takuji Hatakeyama, JP / Hsiao-Wen Zan, TW
(1) 15:00-15:20	Active Material Design for Intrinsically-Stretchable Polymer Solar Cells Bumjoon Kim, KAIST, Korea	Blue Organic Light-Emitting Diode Operated by Extremely Low Driving Voltage Seiichiro Izawa, Tokyo Institute of Technology, Japan
(2) 15:20-15:40	Ternary Bulk-Heterojunction Organic Photovoltaics and Photodetectors Chih-Ping Chen, Ming Chi University of Technology, Taiwan	Quantitative Prediction of All Rate Constants Relevant to Emission and Quantitative Structure Determination in Amorphous Emitters Hironori Kaji, Kyoto University, Japan
(3) 15:40-16:00	Transfer Printing Technique for realizing multilayer Polymer and Perovskite Solar Cells Chih-Wei Chu, Academia Sinica, Taiwan	Stable Blue Phosphorescent Organic Light-Emitting Diode Jang Hyuk Kwon, Kyung Hee University, Korea
16:00-16:20	Break	
16:20-17:20	[Invited Session 5] Chair: Seo-Jin Ko, KR / Chih-Wei Chu, TW	[Invited Session 6] Chair: Le Yang, SG / Seiichiro Izawa, JP
(1) 16:20-16:40	Improvement of Thermoelectric Properties of PEDOT: PSS by Addition of Surfactant Naoki Kishi, Nagoya Institute of Technology, Japan	Design and Synthesis of Stretchable and Self-healing Polymers for Electronic Skin Applications Ho-Hsiu Chou, National Tsing Hua University, Taiwan
(2) 16:40-17:00	Engineering Charge Transport Properties in Heavily Doped Conjugated Polymers for Organic Thermoelectrics Kilwon Cho, POSTECH, Korea	Large-scale and Efficient Light-emitting Diodes based on Halide Perovskite Quantum Materials Zhiyong Fan, The Hong Kong University of Science and Technology, Hong Kong
(3) 17:00-17:20	Self-adaptive Hole Transport Layers for Efficient Inverted Perovskite Photovoltaics Fang-Chung Chen, National Yang Ming Chiao Tung University, Taiwan	Advanced Pixel Structures for Light Extraction of OLED Displays Chung-Chih Wu, National Taiwan University, Taiwan
18:00-20:00	Poster Session (1F, Department of Chemistry, National Taiwan University)	

Time / Room	Song-Pei Lecture Hall	Pan-Kuan Lecture Hall
09:00-10:20	[Invited Session 7] Chair: Tzung-Fang Guo, TW / Youichi Tsuchiya, JP	[Invited Session 8] Chair: Han Young Woo, KR / Shiao-Wei Kuo, TW
(1) 09:00-09:20	En Route to the Blue Emissive Ir(III) Phosphors with Carbene Cyclometalates Yun Chi, City University of Hong Kong, Hong Kong	Electrical Doping Strategies for Metal-Halide Perovskites Keehoon Kang, Seoul National University, Korea
(2) 09:20-09:40	35 Years of OLED Research Junji Kido, Yamagata University, Japan	Transparent Conducting Window and its Buffer Layer on Top of Bifacial Transparent Perovskite Solar Cells Chao-Yu Chen, National Cheng Kung University, Taiwan
(3) 09:40-10:00	TBA	Improvement of Fabrication Process Under Air Atmosphere for Perovskite Solar Cells Tatsuo Mori, Aichi Institute of Technology, Japan
(4) 10:00-10:20	Design Strategy of High Efficient Blue Dopant Yun-Hi Kim, Gyeongsang National University, Korea	Optoelectronics Based on Achiral and Chiral Halide Perovskites Yu-Chiang Chao, National Taiwan Normal University, Taiwan
10:20-10:40	Break	
10:40-12:00	[Invited Session 9] Chair: Yun-Hi Kim, KR / Junji Kido, JP	[Invited Session 10] Chair: Keehoon Kang, KR / Yu-Chiang Chao, TW
(1) 10:40-11:00	Regulating the Triplet-Triplet Annihilation Process to Fluorescence in Polymer Light Emitting-Diodes Tzung-Fang Guo, National Cheng Kung University, Taiwan	Conjugated Polyelectrolytes as a Multifunctional Interlayer for Inverted Perovskite Solar Cells Han Young Woo, Korea University, Korea
(2) 11:00-11:20	Near-Infrared Organic Nanoparticles for Efficient Fluorescence Bioimaging and Phototherapy Chun-Sing Lee, City University of Hong Kong, Hong Kong	Construction Archimedean Tiling Patterns Based on Soft Materials from Block Copolymers and Covalent Organic Frameworks Shiao-Wei Kuo, National Sun Yat-Sen University, Taiwan
(3) 11:20-11:40	Delayed Fluorescence from Inverted Singlet and Triplet Excited States Naoya Aizawa, Osaka University, Japan	Organic Electrochemical Diodes for Current Rectification, Digital Logic Gates, and Reconfigurable Neuromorphic Circuits Myung-Han Yoon, Gwangju Institute of Science and Technology, Korea

Time / Room	Song-Pei Lecture Hall	Pan-Kuan Lecture Hall
(4) 11:40-12:00	Fine Photophysical Analysis of Peculiar TADF Behavior Youichi Tsuchiya, Kyushu University, Japan	Flexible Organic Electrochemical Transistors for Sensing Applications Feng Yan, The Hong Kong Polytechnic University, Hong Kong
12:00-13:20	Lunch	
13:20-14:00	[Plenary Lecture 4] Chair: Jang-Joo Kim, KR Photophysical Properties Harnessed by Molecular Interactions and/or Unique Molecular Properties Pi-Tai Chou, National Taiwan University, Taiwan (Song-Pei Lecture Hall)	
14:00-14:40	[Plenary Lecture 5] Chair: Ken-Tsung Wong, TW The Doping "Arts" in Organic Electronics Liang-Sheng Liao, Soochow University, China (Song-Pei Lecture Hall)	
14:40-15:00	Break	
15:00-16:00	[Invited Session 11] Chair: Li-Yin Chen, TW	[Invited Session 12] Chair: Jung-Yong Lee, KR
(1) 15:00-15:20	Wide Color Gamut OLEDs Based on TADF Sensitized Fluorescence (TSF) Lian Duan, Tsinghua University, China	Unconventional Semiconductors and Device Architectures Enabled by Molecular Design, Doping and Film Morphology Engineering Antonio Facchetti, Georgia Institute of Technology and Flexterra Corp., USA
(2) 15:20-15:40	Luminescent Materials and Devices with Doublet Emission Feng Li, Jilin University, China	Chip on a Fiber Toward the E-Textile Computing Platform Tae-Wook Kim, Jeonbuk National University, Korea
(3) 15:40-16:00	High-Efficiency Blue-Emission Crystalline OLEDs Feng Zhu, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, China	Development of Production Technology for Perovskite Solar Cells Tzu-Chien Wei, National Tsing-Hua University, Taiwan
16:00-16:20	Break	

November 2

Time / Room	Song-Pei Lecture Hall	Pan-Kuan Lecture Hall
16:20-17:20	[Invited Session 13] Chair: Chu-Chen Chueh, TW	[Invited Session 14] Chair: Chao-Yu Chen, TW
(1) 16:20-16:40	Photoluminescence and Electroluminescence of Rare Earth Complex Zhiwei Liu, Peking University, China	Brightening Deep-Blue Perovskite Light-Emitting Diodes: A Path to Rec. 2020 Jung-Yong Lee, KAIST, Korea
(2) 16:40-17:00	Quantum Dot Micro/Nano Light-emitting Technology Fushan Li, Fuzhou University, China	Interface-Driven Stability for Halide Perovskite Photovoltaics: A Fundamental Understanding Zonglong Zhu, City University of Hong Kong, Hong Kong
(3) 17:00-17:20	Synergetic Interface Engineering on Flexible Perovskite LEDs Jianxin Tang, Soochow University, China	
18:00-20:00	Banquet (La Marée 公館水源會館)	

Time / Room	Song-Pei Lecture Hall	Pan-Kuan Lecture Hall
09:00-10:20	[Invited Session 15] Chair: Seunghyup Yoo, KR / Chun-Sing Lee, HK	[Invited Session 16] Chair: Takashi Hirose, JP / Tae-Wook Kim, KR
(1) 09:00-09:20	Expanding Science and Technology of CT Phenomena in OLEDs Chihaya Adachi, Kyushu University, Japan	Development of High-Performance Sn Based Halide Perovskite Transistors Yong-Young Noh, POSTECH, Korea
(2) 09:20-09:40	Pushing the Limits of TOLEDs: A Multifaceted Approach to Design and Material Innovation Chih-Hao Chang, Yuan Ze University, Taiwan	Molecular Packing Control of 5,15-Disubstituted Tetrabenzoporphyrins toward Efficient Charge-Carrier Transport Hiroko Yamada, Kyoto University, Japan
(3) 09:40-10:00	Novel Donor-Acceptor Emitters Exhibiting Inverted S-T Gap for OLED Applications Przemyslaw Data, Lodz University of Technology, Poland	Development of Organic Functional Materials for Organic Photovoltaics Yen-Ju Cheng, National Yang Ming Chiao Tung University, Taiwan
(4) 10:00-10:20	Aromatic Ligand Exchanged Perovskite Nanocrystal for Highly Efficient Light-Emitting Diodes Takayuki Chiba, Yamagata University, Japan	Self-Accelerated TADF through Exciton-Exciton Spin Scattering for Efficient OLEDs and Dipolar Lattice-Deaccelerated TADF through Electron-Phonon Coupling for Afterglow Luminescence Bin Hu, University of Tennessee, USA
10:20-10:40	Break	
10:40-11:20	[Plenary Lecture 6] Chair: Chihaya Adachi, JP Modulation Spectroscopies for the Characterization of Electronic Transport Properties of Organic Semiconducting Devices Hiroyoshi Naito, Osaka Metropolitan University, Japan (Song-Pei Lecture Hall)	
11:20-12:00	[Closing Ceremony]	