Program at a Glance

Date / Time	June 29 (Sun)	June 30 (Mon)	July 1 (Tue)	July 2 (Wed)	July 3 (Thu)
8:00		Registration Opening Ceremony (8:40-9:00)	Registration	Registration	Registration
9:00		**Plenary Lecture 01** (9:00-9:40) **Plenary Lecture 02** (9:40-10:20)	**Plenary Lecture 04** (9:00-9:40) **Plenary Lecture 05** (9:40-10:20)	**Plenary Lecture 07** (9:00-9:40) **Plenary Lecture 08** (9:40-10:20)	**Plenary Lecture 10** (9:00-9:40) Coffee Break (09:40-10:10)
10:00		Coffee Break (10:20-10:50) - Invited Lectures - Oral Sessions (10:50-12:20)	Coffee Break (10:20-10:50) - Invited Lectures - Oral Sessions (10:50-12:20)	Coffee Break (10:20-10:50) - Invited Lectures - Oral Sessions (10:50-12:20)	- Invited Lectures - Oral Sessions (10:10-12:10)
11:00					
12:00		Lunch (12:20-14:00)	Lunch (12:20-14:00)	Lunch (12:20-14:00)	Lunch (12:10-13:30)
13:00			Student Poster Presentation Award I (13:40-14:00)	Student Poster Presentation Award II (13:40-14:00)	- Invited Lectures - Oral Sessions (13:30-15:00)
14:00		**Plenary Lecture 03** (14:00-14:40) Break (14:40-14:55) - Invited Lectures - Oral Sessions (14:55-15:55)	**Plenary Lecture 06** (14:00-14:40) Break (14:40-14:55) - Invited Lectures - Oral Sessions (14:55-15:55)	**Plenary Lecture 09** (14:00-14:40) Break (14:40-14:55) - Invited Lectures - Oral Sessions (14:55-15:55)	
15:00		Coffee Break (15:55-16:25)	Coffee Break (15:55-16:25)	Coffee Break (15:55-16:25)	Break (15:00-15:15) Closing Ceremony [Prize Draw] (15:15-15:45)
16:00	Registration (16:00~18:00)	- Invited Lectures - Oral Sessions (16:25-18:00)	- Invited Lectures - Oral Sessions (16:25-18:00)	- Invited Lectures - Oral Sessions (16:25-18:00)	
17:00					
18:00	Welcome Reception (18:00-19:30)	Poster Session I (18:00-19:30)	Poster Session II (18:00-19:30)	Break (18:00-18:30) Banquet (18:30-20:30)	
19:00					
20:00					

Date/ Time	June 30 (Monday)			
8:00-8:30	Registration			
8:30-9:00	[Room: Landing Ballroom A] Opening Ceremony			
9:00-9:40	[Room: Landing Ballroom A] [PL01] Chair: Kwanghee LEE (Gwangju Institute of Science and Technology (GIST), Korea) Limits to Charge Pair Generation in Molecular Films for Photovoltaic Energy Conversion Jenny NELSON (Imperial College London, UK)			
9:40-10:20	[Room: Landing Ballroom A] [PL02] Chair: Kwanghee LEE (Gwangju Institute of Science and Technology (GIST), Korea) Investigation of Photophysical and OLED Properties of TADF Emitters Having Nearly Zero Gap Dest Chihaya ADACHI (Kyushu University, Japan)			
10:20-10:50	Break (30 min)			
Room	Landing Ballroom A	Landing Ballroom B	Landing Ballroom C	Halla Room
Session 1-1	Organic Photovoltaics-I : Device Physics & Engineering	Sensors & Bioelectronics-I	OLEDs: Organic Light Emitting Diodes	Doping and Charge Transport in Organic Semiconductors-I
Chair	BongSoo KIM (Ulsan National Institute of Science and Technology (UNIST), Korea)	Sungjune JUNG (Pohang University of Science and Technology (POSTECH), Korea) Keehoon KANG (Seoul National University, Korea)	Jeong-Hwan LEE (Inha University, Korea)	Junwoo LEE (Ajou University, Korea)
10:50-11:15	[IL-01] Exciton Dynamics Across Diverse Temporal Scales in Organic Photovoltaic Devices Xiao-Tao HAO (Shandong University, China)	[IL-06] Conducting Polymer Devices to Study the Gut-Brain Axis Róisín M. OWENS (University of Cambridge, UK)	[IL-11] Chasing the Blues: Design and Synthesis of Novel Emissive Materials Malika JEFFRIES-EL (Boston University, USA)	[IL-16] Role of the Chain Structure and Conformation of Conjugated Polymers on Aggregation Behavior Jian PEI (Peking University, China)
11:15-11:40	[IL-02] Photomultiplication Type Organic Photodetectors Fujun ZHANG (Beijing Jiaotong University, China)	[IL-07] Conjugated Polyelectrolytes: Bridging the Gap Between Fundamental Properties and Applications to Biosensing and Antimicrobial Defense Kirk S. SCHANZE (University of Texas at San Antonio, USA)	[OR-017] Material and Device Photophysics for Efficient and Operational Stable Organic Light-Emitting Diodes Yungui LI (Max-Planck Institute for Polymer Research, Germany)	[IL-17] Organic/Hybrid Thermoelectric Materials and Devices Cheng-Liang LIU (National Taiwan University, Chinese Taipei)
11:40-12:05	[IL-03] Rigid π-Conjugated Polymers with a Benzothiadiazole-Containing Extended Fused Ring for Organic Photovoltaics Itaru OSAKA (Hiroshima University, Japan)	[IL-08] Plant Bioelectronics and Sustainable Biohybrids Eleni STAVRINIDOU (Linköping University, Sweden)	[OR-018] (11:30-11:45) Impact of Host Materials on the Performance of Lanthanide-Based Blue Emitters towards High-Efficiency and Stable OLEDs Mahmoud SOLEIMANI (Technische Universität Dresden, Germany) [OR-019] (11:45-12:00) The Origin of the Inverted Singlet and Triplet Excited States of Azaphenalene Molecules Yong-Jin PU (RIKEN, Japan)	[IL-18] Molecular Electron Donors and Acceptors for Electric Field Control in 2D Semiconductor Heterostructures Norbert KOCH (Humboldt-Universität zu Berlin, Germany)
12:05-12:20	[OR-001] High Performance Y6 Homojunction Organic Solar Cells Enabled by a Secondary Hole Transport Layer Shaun MCANALLY (The University of Queensland, Australia)	[OR-009] Smart Wearable Healthcare Materials and Devices for Theranostic Applications Sei Kwang HAHN (Pohang University of Science and Technology (POSTECH), Korea)	[OR-020] (12:00-12:15) Next-Generation Donor-Acceptor Emitters with Inverted Singlet-Triplet Gap for High-Efficiency OLEDs Przemyslaw DATA (Łódź University of Technology, Poland)	[OR-025] Strategic Molecular Doping Processes for Achieving Exceptional Electrical and Thermoelectric Properties of Conjugated Polymers Jong Hyun KIM (Ajou University, Korea)
12:20-14:00	Lunch			
14:00-14:40	[Room: Landing Ballroom A] [PL03] Chair: Keehoon KANG (Seoul National University, Korea) Organic Mixed Conductors for Neural-Inspired Electronics Simone FABIANO (Linköping University, Sweden)			
14:40-14:55	Break (15 min)			
Room	Landing Ballroom A	Landing Ballroom B	Landing Ballroom C	Halla Room
Session 1-2	Organic Photovoltaics-II: Emerging Issues (I)	Sensors & Bioelectronics-II	Light-Emitting Materials and Devices-I	Doping and Charge Transport in Organic Semiconductors-II
Chair	Min KIM (University of Seoul, Korea)	Do Hwan KIM (Hanyang University, Korea)	Yong-Jin PU (RIKEN, Japan)	Sung Yun SON (Kwangwoon University, Korea)
14:55-15:10	[OR-002] Photovoltaic Windows for Smart Buildings: Multidimensional Performance Optimization of Semi-Transparent Organic Photovoltaics Hong ZHANG (National Center for Nanoscience and Technology, China)	[OR-010] Towards Edible Gas Sensors to Reduce Food Waste Pierluigi MONDELLI (Italian Institute of Technology, Italy)	[IL-12] (14:55-15:20) Design Strategy of Organic Semiconducting Materials for OECT Yun-Hi KIM (Gyeongsang National University, Korea)	[IL-19] (14:55-15:20) Insights to the High Conductivity of Polar Conjugated Polymers with Anion Exchange Doping Natalie BANERJI (University of Bern, Switzerland)

Date/ Time	June 30 (Monday)			
15:10-15:25	**[OR-003]** Thymine-Functionalized Terpolymer Enables Efficient and Stretchable Polymer Solar Cell Soodeok SEO (Korea Advanced Institute of Science and Technology (KAIST), Korea)	**[OR-011]** Dynamic Monitoring of a 3D-printed Airway Tissue Model using an Organic Electrochemical Transistor Seungjin CHAI (Pohang University of Science and Technology (POSTECH), Korea)	**[IL-13]** (15:20-15:45) Understanding the Roles of Additives in Perovskite Light-Emitting Diodes Baodan ZHAO (Zhejiang University, China)	**[IL-20]** (15:20-15:45) Development and Catalyzed Doping of n-Type Polymer Semiconductors Xugang GUO (Southern University of Science and Technology (SUSTech), China)
15:25-15:40	**[OR-004]** Unraveling the Conformations of Dimeric Acceptors and Their Influence on the Performance of Polymer Solar Cells Jingnan WU (Chalmers University of Technology, Sweden)	**[OR-012]** Optically Activated Nanoactuators for Photosensitization of Neurons Luca BEVERINA (University of Milano–Bicocca, Italy)		
15:40-15:55	**[OR-005]** Ultrafast Polaron Pair Delocalization and Suppressed Charge Recombination Enabling High-Efficient Single-Component Organic Solar Cells Yao LI (The Hong Kong University of Science and Technology (Guangzhou), China)	**[OR-013]** Printed Electrolyte-Gated Transistors for Non-Invasive Intracellular Recording Adrica KYNDIAH (Istituto Italiano di Tecnologia, Italy)	**[OR-021]** (15:45-16:00) Spontaneous Orientation Polarization of Carbazole Dendrimers Ken ALBRECHT (Kyushu University, Japan)	**[OR-026]** (15:45-16:00) Cyano-Functionalized n-Type Polymer Semiconductors Kui FENG (Southern University of Science and Technology (SUSTech), China)
15:55-16:25	Break (30 min)			
Session 1-3	**Organic Photovoltaics-III: Materials & Device Physics**	**Sensors & Bioelectronics-III**	**Light-Emitting Materials and Devices-II**	**Doping and Charge Transport in Organic Semiconductors-III**
Chair	Hae Jung SON (Korea Institute of Science and Technology (KIST), Korea)	Sungjune JUNG (Pohang University of Science and Technology (POSTECH), Korea) Eleni STAVRINIDOU (Linköping University, Sweden)	Yun-Hi KIM (Gyeongsang National University, Korea) Baodan ZHAO (Zhejiang University, China)	Jea Woong JO (Dongguk University, Korea)
16:25-16:50	**[IL-04]** Taking Fullerene to the Next Dimension: the Syntheses of Novel Poly(fullerene)s for Real-World Applications Roger C. HIORNS (CNRS/Univ Pau & Pays Adour, France)	**[IL-09]** Unlocking Sustainable Iontronics: Neuromorphic e-SKIN Do Hwan KIM (Hanyang University, Korea)	**[IL-14]** Hetero-Exciton Characteristics and Excitonic-Devices of Donor/Acceptor Heterostructures Based-on π-Conjugated Organic Systems Jinsoo JOO (Korea University, Korea)	**[IL-21]** Impact of Structural and Energetic Disorder on Charge Transport and Charge Generation in Doped Conjugated Polymers Kilwon CHO (Pohang University of Science and Technology (POSTECH), Korea)
16:50-17:15	**[IL-05]** Free Charge Generation in Non-Fullerene Acceptors for Efficient Organic Photoconversion Devices Ji-Seon KIM (Imperial College London, UK)	**[IL-10]** A Strategy Towards Biomimetic and Transient Polymer Bioelectronics Jadranka TRAVAS-SEJDIC (The University of Auckland, New Zealand)	**[IL-15]** Regulating Spatial Configuration in Donor-π-Acceptor for Through-Space Exciton Transfer : Concentration-Independent Emitter for OLEDs Pachaiyappan RAJAMALLI (Indian Institute of Science, India)	**[OR-027]** (16:50-17:05) Development of High-Performance Halide Perovskite P-Type Transistors Yong-Young NOH (Pohang University of Science and Technology (POSTECH), Korea) **[OR-028]** (17:05-17:20) Exploring Transport Mechanisms of In-plane Oriented Organic Semiconductors Isabelle HOLZER (University of Bern, Switzerland)
17:15-17:30	**[OR-006]** Impact of Fluorine Substitution on the Performance and Stability of π-Conjugated Materials for Organic Electronics Minjun KIM (Kyonggi University, Korea)	**[OR-014]** Biomimetic Flexible Sensory Electronics Hyunhyub KO (Ulsan National Institute of Science and Technology (UNIST), Korea)	**[OR-022]** Controlling Exciton Conversion for Efficient Upconversion Emission at Organic Semiconductor Interfaces Hiroto IWASAKI (Institute of Science Tokyo, Japan)	**[OR-029]** (17:20-17:35) n-Doping of Organic Semiconductors Catalysed by Organometallic Complexes Sergio GÁMEZ-VALENZUELA (Southern University of Science and Technology (SUSTech), China)
17:30-17:45	**[OR-007]** A Three-Dimensional Solid Additive Suppresses Non-Radiative Recombination Loss to Boost Efficiency and Scalability in Organic Photovoltaics Lingling ZHAN (Hangzhou Normal University, China)	**[OR-015]** Electronic Nose/Tongue for Human-Derived Metabolite Monitoring and Analysis Platform Jin-Woo OH (Pusan National University, Korea)	**[OR-023]** Light-emitting Devices based on Electrochemiluminescence Moon Sung KANG (Sogang University, Korea)	**[OR-030]** (17:35-17:50) The Active Layer Doped Semitransparent Organic Solar Cells Han YAN (Xi'an Jiaotong University, China)
17:45-18:00	**OR-008]** High-Dielectric Constant Materials for Homojunction Solar Cells Neil MALLO (The University of Queensland, Australia)	**[OR-016]** Impact of the Glass Transition Temperature on the Sensing Performance of Explosive-Detecting Fluorescent Films Paul SHAW (The University of Queensland, Australia)	**[OR-024]** Cross-Linkable Hole Transport Materials Functionalized with Dibenzofuran for High-Performance Quantum Dot Light-Emitting Diodes Youngu LEE (Daegu Gyeongbuk Institute of Science and Technology (DGIST), Korea)	**[OR-031]** (17:50-18:05) Photocatalytic Doping of Organic Semiconductors Wenlong JIN (Linköping University, Sweden)
18:00-19:30	**[Room: Lobby, Landing Ballroom]**	**Poster Session I**		

Date/ Time	July 1 (Tuesday)			
8:30-9:00	Registration			
9:00-9:40	**[Room: Landing Ballroom A]** **[PL04]** **Chair: Felix Sunjoo KIM** (Chung-Ang University, Korea) **Exploration of the Structure and Properties of Chiral Conjugated Organic Materials** (Video Lecture) Seth Marder (University of Colorado Boulder, USA)			
9:40-10:20	**[Room: Landing Ballroom A]** **[PL05]** **Chair: Su-Mi HUR** (Chonnam National University, Korea) **Promises and Challenges of Machine Learning in Materials Discovery Systems** Paulette CLANCY (Johns Hopkins University, USA)			
10:20-10:50	Break (30 min)			
Room	**Landing Ballroom A**	**Landing Ballroom B**	**Landing Ballroom C**	**Halla Room**
Session 2-1	**Organic photovoltaics & photodetectos: materials & devices**	**OMIECs: Material Principles and Avanced Characterisation I**	**Advanced Theory and Characterization Approaches for Rational Design of Functional π-Conjugated Materials-I**	**Functional Optoelectronic Materials-I**
Chair	Wonho LEE (Kumoh National Institute of Technology, Korea)	Keehoon KANG (Seoul National University, Korea)	Chang Yun SON (Seoul National University, Korea)	Hyojung CHA (Kyungpook National University, Korea)
10:50-11:15	**[IL-22]** Upscaling Flexible Organic Photovoltaic Modules using a Low-Cost Photoactive Layer Harald ADE (North Carolina State University, USA)	**[IL-27]** A Closer Look at the Ions in Operando Organic Mixed Ionic-Electronic Conductors (OMIECs) Jonathan RIVNAY (Northwestern University, USA)	**[IL-33]** Hard-Cation-Soft-Anion Ionic Liquids Enhancing PEDOT:PSS Conductivity and Stretchability. Multiscale Molecular Modeling Yun Hee JANG (Daegu Gyeongbuk Institute of Science and Technology (DGIST), Korea)	**[IL-37]** Applying Cleavable Side Chains to (re)Design Conjugated Polymers for Organic Electronics Wei YOU (University of North Carolina at Chapel Hill, USA)
11:15-11:40	**[IL-23]** Approaches to Robust and Sustainable Polymers for Organic Solar Cells Barry C. THOMPSON (University of Southern California, USA)	**[IL-28]** Charting the Resurgence in Charge and Ion Transport in Conjugated Polymers John R. REYNOLDS (Georgia Institute of Technology, USA)	**[IL-34]** Unraveling the Influence of Side Chain Architectures on Semiconducting Polymer Assembly: Insights from Multiscale Modeling Seung Soon JANG (Georgia Institute of Technology, USA)	**[IL-38]** Molecular Forces Driven Anisotropy for Controlled Molecular Orientation in Conjugated Polymers Derya BARAN (King Abdullah University of Science and Technology (KAUST), Saudi Arabia)
11:40-12:05	**[IL-24]** Development of C-Shaped ortho-Benzodipyrrole-based A-D-A type Nonfullerene Acceptors for High-Performance Organic Photovoltaics and Air-Stable, High-Electron-Mobility Transistors Yen–Ju CHENG (National Yang Ming Chiao Tung University, Chinese Taipei)	**[OR-039]** (11:40-11:55) Structure-Property Trade-Offs in Organic Mixed Ionic-Electronic Conductors Bryan D. PAULSEN (University of Notre Dame, USA) **[OR-040]** (11:55-12:10) Effects of Side-Chain Cleavage on the Electrochemical Properties of Polymeric Mixed Ionic-Electronic Conductors Eunje PARK (Seoul National University, Korea)	**[OR-045]** (11:40-11:55) Polymer Phase Behavior, Kinetic Arrest and Aging: a Minimalist View Jasper J. MICHELS (Max Planck Institute for Polymer Research, Germany) **[OR-046]** (11:55-12:10) Design and Study of Novel Organic Mixed Ionic-electronic Conductors Micaela MATTA (King's College London, UK)	**[IL-39]** Direct Observation of the Conduction Band Structure and Electron Transport Mechanism of Organic Semiconductors Hiroyuki YOSHIDA (Chiba University, Japan)
12:05-12:20	**[OR-032]** Impact of Non-Halogenated Solvents on Thickness-Dependent Performance of Organic Solar Cells Yonglin CAO (Leibniz–Institut im Forschungsverbund Berlin e.V, Germany)			**[OR-054]** Universal Three-Dimensional Crosslinkers for All-Photopatterned Organic Electronics BongSoo KIM (Ulsan National Institute of Science and Technology (UNIST), Korea)
12:20-14:00	Lunch **[Room: Landing Ballroom A]** (13:40-14:00) **tudent Poster Presentation Award I**			
14:00-14:40	**[Room: Landing Ballroom A]** **[PL06]** **Chair: Yun-Hi KIM** (Gyeongsang National University, Korea) **High Performance Semi-Transparent and Flexible Organic Solar Cells** Hongzheng CHEN (Zhejiang University, China)			
14:40-14:55	Break (15 min)			
Room	**Landing Ballroom A**	**Landing Ballroom B**	**Landing Ballroom C**	**Halla Room**
Session 2-2	**Organic Photodetectos : Applications & Materials & Mechanism**	**OMIECs: Material Principles and Advanced Characterisation II**	**Advanced Theory and Characterization Approaches for Rational Design of Functional π-Conjugated Materials-II**	**Functional Optoelectronic Materials-II**
Chair	Jongmin CHOI (Daegu Gyeongbuk Institute of Science and Technology (DGIST), Korea)	Jonathan RIVNAY (Northwestern University, USA)	Yun Hee JANG (Daegu Gyeongbuk Institute of Science and Technology (DGIST), Korea) Yves LANSAC (Universite de Tours, France)	In Hwan JUNG (Hanyang University, Korea)
14:55-15:10	**[OR-033]** From UV to Near-Infrared Light Detection: Next Generation Photodetectors for Imaging and Biometric Applications Nicola GASPARINI (Imperial College London, United Kingdom)	**[IL-29](14:55-15:20)** Cryo-EM Reveals Structure and Assembly of Mixed Conductors Enrique GOMEZ (The Pennsylvania State University, USA)	**[OR-047]** Designing Functional Conjugated Polymer Interfaces with Molecular Simulations for Advanced Electronic Materials Chang Yun SON (Seoul National University, Korea)	**[OR-055]** Impact of Intermediate Diradical Character on Optical and Magnetic Properties in Polymethine Dyes with Oxocarbon Units Takeshi MAEDA (Osaka Metropolitan University, Japan)

Date/ Time	July 1 (Tuesday)			
15:10-15:25	**[OR-034]** Narrowband Detection via Charge Collection Narrowing Organic Photodetector Enabled by Low Band Gap Random Terpolymer for Biometric Sensing Matilde BRUNETTA (Imperial College London, United Kingdom)		**[OR-048]** The Energy Structure of Spin States in Improving the Performance of Organic Solar Cells Sun YIN (Shandong University, China)	**[OR-056]** Preparation and Characterization of Organic Chiral Spin Materials Wei QIN (Shandong University, China)
15:25-15:40	**[OR-035]** Working Mechanism and Performance Optimization of Dual-band Photomultiplication Type Organic Photodetectors Xingchao ZHAO (Beijing Jiaotong University, China)	**[IL-30] (15:20-15:45)** In-situ Characterization of Mixed Ionic/Electronic Conductors: The Role of Electrochemically Induced Order/ Disorder on Device Performance Lucas Q. FLAGG (National Institute of Standards and Technolog, USA)	**[OR-049]** Angular Chromism and Delocalization of Intermolecular Charge Transfer Exciton in π-Conjugated Organic Electron Donor/Acceptor Heterojunctions Sang-hun LEE (Korea University, Korea)	**[OR-057]** Multifunctional PEDOT (co)polymers Daniele MANTIONE (POLYMAT UPV/EHU Univeristy, Spain)
15:40-15:55	**[OR-036]** Enhancing Trapped Carrier Lifetime via Insulating Property Engineering in Photomultiplication Organic Photodetectors Min Hun JEE (Korea University, Korea)	**[OR-041] (15:45-16:00)** Multimodal Operando Probing of Mixed Conduction in Organic Electrochemical Transistors Shubham TANWAR (IBEC, Spain)	**[OR-050]** Control of Ion-Hole Coupling Dynamics for High-Frequency Ionic Diode Unyong JEONG (Pohang University of Science and Technology (POSTECH), Korea)	**[OR-058]** Multi-Heterojunctioned Plastics with High Thermoelectric Figure of Merit Dongyang WANG (Chinese Academy of Sciences, China)
15:55-16:25	Break (30 min)			
Session 2-3	**Optoelectronic devices; material synthesis & system**	**OMIECs: Material principles and advanced characterisation III**	**Advanced Theory and Characterization Approaches for Rational Design of Functional π-Conjugated Materials-III**	**Flexible and Stretchable Electronics**
Chair	Seunghyeon KIM (Daegu Gyeongbuk Institute of Science & Technology (DGIST), Korea)	Lucas Q. FLAGG (National Institute of Standards and Technolog, USA)	Su-Mi HUR (Chonnam National University, Korea) Seung Soon JANG (Georgia Institute of Technology, USA)	Chu-Chen CHUEH (National Taiwan University, Chinese Taipei)
16:25-16:50	**[IL-25]** Design and Applications of π-Conjugated Systems for Single-Molecule Electronics, Agrivoltaics, and NIR Devices Yutaka IE (Osaka University, Japan)	**[IL-31]** Polyelectrolyte Complexes for Mixed Ionic-Electronic Conduction Laure V. KAYSER (University of Delaware, USA)	**[IL-35]** Terra Incognita: Understanding Next-Generation Polymer Semiconductors Natalie STINGELIN (Georgia Institute of Technology, USA)	**[IL-40]** Diketopyrrolopyrrole Semicodncutors Molecular Engineering Strategies: Charge Modulation & Stretchability in Organic Transistors Prashant SONAR (Queensland University of Technology, Australia)
16:50-17:15	**[IL-26]** Resonance Raman Studies of Donor-Acceptor Systems Keith GORDON (University of Otago, New Zealand)	**[IL-32]** Localize vs. Delocalize Polaron in Mixed Ionic Conductors: Implications for Electrochemical Devices Satish PATIL (Indian Institute of Science, India)	**[IL-36]** Structure-Photophysics Relationships of Molecular Semiconductors and Heterostructures Philip C.Y. CHOW (The University of Hong Kong, Hong Kong, China)	**[OR-059]** (16:50-17:05) CVD of Parylene Derivatives toward Functional Thin Films for Electronics Kyung Jin LEE (Chungnam National University, Korea) **[OR-060]** (17:05-17:20) Direct-Written High-Performing Nanoscale Polymer based OFETs for High-Frequency Applications Tommaso LOSI (Istituto Italiano di Tecnologia (IIT), Italy)
17:15-17:30	**[OR-037]** Chalcogen Variation in a Series of Structurally Simple Donor Polymers for Low-Cost Organic Electronics Martina RIMMELE (Imperial College London, United Kingdom)	**[OR-042]** A Molecular Design Strategy for Green Solvent-Processable and Stable Polymeric Mixed Ionic–Electronic Conductors toward Applications Junwoo LEE (Ajou University, Korea)	**[OR-051]** Observation of Excited State-Derived Photoluminescence Decay of Organic Dye to Monitor Its Photo-Induced Charge Transfer Efficiency HyeonOh SHIN (Ulsan National Institute of Science and Technology (UNIST), Korea)	**[OR-061]** (17:20-17:35) π-Liquids and π-Gels Toward Flexible Electret Devices Takashi NAKANISHI (National Institute for Materials Science, Japan)
17:30-17:45	**[OR-038]** Role of Qausi-Interfacial Landscape in Suppression Electron-Phonon Coupling and Energy Loss for Organic Solar Cells Yongmin LUO (Hong Kong University of Science and Technology, China)	**[OR-043]** Cost-effective Organic Mixed Ionic-electronic Conductors for Organic Electrochemical Devices Yuxiang LI (Xi'an University of Science and Technology, China)	**[OR-052]** Development of Anion-Responsive Colorimetric and Fluorometric Red-Shifting of Triarylboranes and Their Sensing and Optoelectronic Applications Youhei TAKEDA (Osaka University, Japan)	**[OR-062]** (17:35-17:50) Understanding the Structure and Dynamics of the Semiconducting Conjugated Polymers through the Use of Neutron Tools Xiaodan GU (The University of Southern Mississippi, USA)
17:45-18:00		**[OR-044]** Unveiling Structural Design Principles for High-Performance Organic Electrochemical Transistors Based on D-A Conjugated Polymers Hyerin JEON (Korea Advanced Institute of Science and Technology (KAIST), Korea)	**[OR-053]** Singlet Fission Materials Energy Matched to Silicon David J. JONES (University of Melbourne, Australia)	
18:00-19:30	**Poster Session II**			

Date/ Time	July 2 (Wednesday)			
8:30-9:00	Registration			
9:00-9:40	**[Room: Landing Ballroom A]** **[PL07]** **Chair: Han Young WOO** (Korea University, Korea) **Molecular Carbons with Different Shapes and Sizes: Synthesis, Electronic Properties, and Applications** Chunyan CHI (National University of Singapore, Singapore)			
9:40-10:20	**[Room: Landing Ballroom A]** **[PL08]** **Chair: BongSoo KIM** (Ulsan National Institute of Science and Technology (UNIST), Korea) **Material Design and Device Engineering for Efficient Organic Photovoltaic Cells** Jianhui HOU (Chinese Academy of Sciences, China)			
10:20-10:50	Break (30 min)			
Room	**Landing Ballroom A**	**Landing Ballroom B**	**Landing Ballroom C**	**Halla Room**
Session 3-1	**Organic Photovoltaics ; materials & device physics & engineering**	**OMIECs: Material Synthesis**	**Organic Materials for Batteries-I**	**Emerging Materials & Devices**
Chair	Kyungkon KIM (Ewha Womans University, Korea)	Laure V. KAYSER (University of Delaware, USA)	Hye Ryung BYON (Korea Advanced Institute of Science and Technology (KAIST), Korea)	Han Young WOO (Korea University, Korea)
10:50-11:15	**[IL-41]** Efficiency Approaching 19% and 16% in Small- and Large- Area Organic Solar Cells Enabled by New Non-Fullerene Acceptor Sung-Ho JIN (Pusan National University, Korea)	**[IL-46]** A Post-Processing Approach to Unlock Mixed Conduction in Organic Semiconductors Christine K. LUSCOMBE (Okinawa Institute of Science and Technology, Japan)	**[IL-52]** Organic Battery Using Polymers for Energy Storage Kenichi OYAIZU (Waseda University, Japan)	**[IL-56]** Interfacial Self-Assembly of Freestanding Nanoparticle Networks for Stretchable Optoelectronic Interfaces Kang Hee KU (Ulsan National Institute of Science and Technology (UNIST), Korea)
11:15-11:40	**[IL-42]** Oligomeric Acceptors and Self-Assembly Monolayer Materials for High-Performance Organic Photovoltaics Ergang WANG (Chalmers University of Technology, Sweden)	**[IL-47]** Organic Bioelectronic Materials with New Functionalities Christian B. NIELSEN (Queen Mary University of London, UK)	**[IL-53]** Unlocking the Potential of Organic Molecules and Redox Polymers in Batteries Rebeca MARCILLA (IMDEA Energy, Spain)	**[OR-085]** (11:15-11:30) Design, Synthesis and Conductivity of 2/6-Azulene-Based Polymers Xike GAO (Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, China) **[OR-086]** (11:30-11:45) Mechanistic Insights into Giant Thermosalient Behavior and Reversible Color Switching in Organic Semiconducting Molecular Single Crystals Mohammad Afsar UDDIN (Instituto de Ciencia de Materiales de Madrid (ICMM-CSIC), Spain)
11:40-12:05	**[IL-43]** The Role of Triplet Energetics and Kinetics in Organic Solar Cell Performance Safa SHOAEE (University of Potsdam, Paul-Drude-Institut, Germany)	**[IL-48]** Materials Development for FET and OECT Devices Martin HEENEY (King Abdullah University of Science and Technology (KAUST), Saudi Arabia)	**[OR-078]**(11:40-11:55) Molecular Designs to Realize Fast-Rechargeable and Highly Stable Organic Electrodes for Secondary Batteries Ji Eon KWON (Korea Institute of Science and Technology (KIST), Korea)	**[OR-087]** (11:45-12:00) Conjugated Core-Shell Bottlebrush Polymers that Exhibit Crystallization-Driven Self-Assembly Victor LOTOCKI (University of Toronto, Canada)
12:05-12:20	**[OR-063]** Extracting Charge Carrier Mobility in Organic Solar Cells through Space-Charge-Limited Current Measurements Hang YIN (Shandong University, China)	**[OR-071]** Open-Flask, Ambient Temperature Conjugated Polymer Synthesis to Mixed Ionic-Electronic Conductors Joost KIMPEL (Chalmers University of Technology, Sweden)	**[OR-079]** (11:55-12:10) Naphthalenediimide (NDI) Based Conjugated Polymers for Organic Cathodes Wonho LEE (Kumoh National Institute of Technology, Korea)	**[OR-088]** (12:00-12:15) Opaque Activated Carbon Gates to Increase Stability in Photodegradable Cumulene-Based Organic Field-Effect Transistors Elda SALA (Istituto Italiano di Tecnologia, Italy)
12:20-14:00	Lunch **[Room: Landing Ballroom A]** (13:40-14:00) **Student Poster Presentation Award II**			
14:00-14:40	**[Room: Landing Ballroom A]** **[PL09]** **Chair: Youngu LEE** (Daegu Gyeongbuk Institute of Science and Technology (DGIST), Korea) **Developing Nanoscale Morphology for High-Performance Organic Bulk-heterojunction at a Large-Area** Hae Jung SON (Korea Institute of Science and Technology (KIST), Korea)			
14:40-14:55	Break (15 min)			
Room	**Landing Ballroom A**	**Landing Ballroom B**	**Landing Ballroom C**	**Halla Room**
Session 3-2	**Organic Photovoltaics: Emerging Issues (II)**	**OECTs: Device Physics and Applications I**	**Organic Materials for Batteries-II**	**Perovskites-Optoelectronics-I**
Chair	Sung-Yeon JANG (Ulsan National Institute of Science and Technology (UNIST), Korea)	Christian B. NIELSEN (Queen Mary University of London, UK)	Rebeca MARCILLA (IMDEA Energy, Spain) Ji Eon KWON (Korea Institute of Science and Technology (KIST), Korea)	Jongmin CHOI (Daegu Gyeongbuk Institute of Science and Technology (DGIST), Korea)
14:55-15:10	**[OR-064]** Impact of Third Component Materials in Improving the Exciton Dissociation Efficiency of Layered Polymer Solar Cells Hang ZHOU (Beijing Jiaotong University, China)	**[IL-49]** (14:55-15:20) The Organic Photoelectrochemical Transistor: A Light-Responsive Neuromorphic Device for Adaptive Sensing Sahika INAL (King Abdullah University of Science and Technology (KAUST), Saudi Arabia)	**[IL-54]** (14:55-15:20) Pi-Conjugated Materials for Energy Storage Dwight SEFEROS (University of Toronto, Canada)	**[OR-089]** Combinatorial Inkjet Printing of Metal Halide Perovskite-Based Optoelectronic Devices Emil LIST-KRATOCHVIL (Humboldt-Universität zu Berlin, Germany)
15:10-15:25	**[OR-065]** Homojunction or Heterojunction: Unveiling Interface-Driven Charge Generation in Non-Fullerene Solar Cells Anirudh SHARMA (King Abdullah University of Science and Technology (KAUST), Saudi Arabia)		**[OR-080]** (15:20-15:35) Poly(paracyclophanetetraene): A Macrocycle-Based Conjugated Polymer for High Performance Organic Battery Electrodes Simon EDER (TU Wien, Austria)	**[OR-090]** Development of Multi-Layer Hole-Transporting Layers and New Materials for Perovskite Quantum-dot LEDs Jaemin LEE (Korea Research Institute of Chemical Technology (KRICT))

Date/ Time	July 2 (Wednesday)			
15:25-15:40	**[OR-066]** Investigation into Morphological Changes and Energetic Disorder of Thick Active Layers and their Impact on Device Performance: A Pathway to Commercialization of Printed Organic Solar Cells Doyoung SUN (Paul Drude Institute for Solid State Electronics, Germany)	**[IL-50]** (15:20-15:45) Structure–Property Relationships of Organic Mixed Ionic-Electronic Conductors and Their Unconventional Applications Myung-Han YOON (Gwangju Institute of Science and Technology (GIST), Korea)	**[OR-081]** (15:35-15:50) Design and Synthesis of New Functional Conjugated Polymers with Adhesive Property for Energy Storage Systems Jeonghun KIM (Yonsei University, Korea)	**[OR-091]** Magnetic Dipole-Induced Large Anisotropic Nonlinear Optical Response in Chiral Two-Dimensional Halide Perovskites Daichi OKADA (Kyoto Institute of Technology, Japan)
15:40-15:55		**[OR-072]** (15:45-16:00) Contact-Limited Behaviours in Organic Electrochemical Transistors Keehoon KANG (Seoul National University, Korea)	**[OR-082]** (15:50-16:05) Mechanical Stretchablility for Next Generation Li-ion Batteries Jeong Gon SON (Korea Institute of Science and Technology (KIST), Korea)	**[OR-092]** Solution-Processed CsPbBr3 Perovskite-Based Flexible UV-Vis Photodetectors for Optical Communication Teresa STEFANINI (Istituto Italiano di Tecnologia, Italy)
15:55-16:25	Break (30 min)		**[OR-083]** (16:05-16:20) Ionic Side Chain Engineering in Conjugated Polyelectrolytes for High-Performance Pseudocapacitors Jinesh Lalitkumar CHOUHAN (Korea University, Korea)	Break (30 min)
Session 3-3	**Organic Photovoltaics: Emerging Issues (III)**	**OECTs: Device Physics and Applications II**	**Organic Photo(electro)catalyst-I**	**Perovskites-optoelectronics-II**
Chair	Shinuk CHO (University of Ulsan, Korea)	Sahika INAL (King Abdullah University of Science and Technology (KAUST), Saudi Arabia) Bryan D. PAULSEN (University of Notre Dame, USA)	Rebeca MARCILLA (IMDEA Energy, Spain) Ji Eon KWON (Korea Institute of Science and Technology (KIST), Korea)	Changsoon CHO (Pohang University of Science and Technology (POSTECH), Korea)
16:25-16:50	**[IL-44]** Efficient Charge Generation and Long-Lived Carriers in Polymer Blend Films and Nanoparticles Hideo OHKITA (Kyoto University, Japan)	**[IL-51]** Enhancing the Performance of Mixed Ionic-Electronic Conductor Materials and Devices by Molecular Design and Architecture Engineering Antonio FACCHETTI (Georgia Institute of Technology, USA)	**[IL-55] (16:20-16:45)** Truxene-based Organic Semiconductors: Flexible Electronics and Photocatalysis for a Sustainable Future Berta GÓMEZ-LOR (Materials Science Institute of Madrid (ICMM-CSIC), Spain)	**[IL-57]** Development of High-Performance Solar Cells based on Perovskite Quantum Dots Sung-Yeon JANG (Ulsan National Institute of Science and Technology (UNIST), Korea)
16:50-17:15	**[IL-45]** Interface Design for Efficient Organic, Perovskite and Perovskite/Organic Tandem Solar Cells Chu-Chen CHUEH (National Taiwan University, Chinese Taipei)	**[OR-073]** (16:50-17:05) Light Emitting Tactile Visual Synapse Enabling Health Monitoring Cheolmin PARK (Yonsei University, Korea)	**[OR-084]** (16:45-17:00) Photocatalytic Chemical Transformation in Dye-Sensitized Photoelectrochemical Cells for Lignin Valorization Jeong Kyeong LEE (Ulsan National Institute of Science and Technology (UNIST), Korea)	**[OR-093]** (16:50-17:05) Operando Energy Level Re-Alignment between Charge Selective Organic Transport Layers and Metal Halide Perovskites Fengshuo ZU (Helmholtz-Zentrum Berlin, Germany)
		[OR-074] (17:05-17:20) Surface Engineering Induced Sensitive Biosensors based on Organic Electrochemical Transistors Fengjiao ZHANG (University of Chinese Academy of Sciences, China)		**[OR-094]** (17:05-17:20) High-Efficiency Perovskite-Based Tandem Solar Cells Jin Young KIM (Ulsan National Institute of Science and Technology (UNIST), Korea)
17:15-17:30	**[OR-067]** An Easily-Synthesized Polymer Donor for Efficient Organic Photovoltaics Kodai YAMANAKA (Hiroshima University, Japan)	**[OR-075]** (17:20-17:35) A Pattern Recognition Artificial Olfactory System Based on Human Olfactory Receptors and Organic Synaptic Devices Joon Hak OH (Seoul National University, Korea)		**[OR-095]** (17:20-17:35) Stabilization of Perovskite Precursors and Solar Cell via Hydrogen Bond-Driven Pseudo-Halide Complexation Jongmin CHOI (Daegu Gyeongbuk Institute of Science and Technology (DGIST), Korea)
17:30-17:45	**[OR-068]** Completely Amorphous Donor Polymers for Stable Organic Photovoltaics Using Low Donor Content Mats R. ANDERSSON (Flinders University, Australia)	**[OR-076]** (17:35-17:50) Electrochemical Doping in Perovskites for Reconfigurable Photodiodes Yongjin KIM (Seoul National University, Korea)		**[OR-096]** (17:35-17:50) Study on Hole Transfer Layer Control for Improving Thermal Stability of Perovskite Solar Cells Dong Suk KIM (Ulsan National Institute of Science and Technology (UNIST), Korea)
17:45-18:00	**[OR-069]** Understanding Non-Geminate Recombination Kinetics in Application Targeted Organic Photovoltaics Richard Adam PACALAJ (Imperial College London, UK)	**[OR-077]** (17:50-18:05) Nonconjugated Radical Polymers as Intrinsic and Functional Memristive Materials for Soft Biorealistic Architectures Jaehyoung KO (Korea Institute of Science and Technology (KIST), Korea)		**[OR-097]** (17:50-18:05) High-Throughput Automated Materials Exploration Accelerates Perovskite Chemistry Discovery Jonghee YANG (Yonsei University, Korea)
18:00-18:15	**[OR-070]** Formation of Stable Heterojunction via Sequential Solution Deposition Kyungkon KIM (Ewha Womans University, Korea)			**[OR-098]** (18:05-18:20) A Pathway toward High-performance Large-area Perovskite Solar Modules Young Yun KIM (Korea Research Institute of Chemical Technology (KRICT), Korea)
18:10-18:30	Break (20 min)			
18:30-20:30	Banquet			

Date/ Time	July 3 (Thursday)		
8:30-9:00	Registration		
9:00-9:40	**[Room: Landing Ballroom A]** **[PL10] Chair: Unyong JEONG** (Pohang University of Science and Technology (POSTECH), Korea) **Conjugated Oligoelectrolytes: A Versatile Platform for Membrane Modifications** Guillermo BAZAN (Nanyang Technological University, Singapore)		
09:40-10:10	Break (30 min)		
Room	**Landing Ballroom A**	**Landing Ballroom B**	**Landing Ballroom C**
Session 4-1	**Optoelectronic Devices**	**OMIECS: Modelling and Beyond**	**Organic Photo(electro)catalyst-II**
Chair	Han Young WOO (Korea University, Korea)	Keehoon KANG (Seoul National University, Korea) Sooji NAM (Electronics and Telecommunications Research Institute (ETRI), Korea)	Jeong Gon SON (Korea Institute of Science and Technology (KIST), Korea)
10:10-10:25	**[OR-099]** Recent Progress of Layer-by-Layer Organic Photovoltaics Xiaoling MA (Beijing Jiaotong University, China)	**[OR-106]** A Data Driven Approach to Enhancing Specific Capacity in N-type OMEICs for Energy Storage. Iona ANDERSON (Imperial College London, UK)	**[IL-60]** (10:10-10:35) Charge Carrier Dynamics in Organic Semiconductor Photocatalysts James R. DURRANT (University of Swansea, UK)
10:25-10:40	**[OR-100]** A Green and Scalable Synthetic Approach to 3,4-Perylenedicarboxylic acid Derivatives Mauro SASSI (Università di Milano–Bicocca, Italy)	**[OR-107]** IM HAPPY: Inverse Model based on Hierarchically Abstracted rePeat unit of PolYmers Su–Mi HUR (Chonnam National University, Korea)	
10:40-10:55	**[OR-101]** Narrow-Bandgap Polyene Composed of Cross-Conjugated Pentagonal Hydrocarbons Aiko FUKAZAWA (Kyoto University, Japan)	**Emerging Materials** **[OR-108]** Structure-Function Relationships in EDOT-Based Polymers: Homocoupling Defects and Side Chain Substitution Spencer J. GILMAN (Georgia Institute of Technology, USA)	**[IL-61]** (10:35-11:00) Study on Charge Carrier Dynamics of Organic Photovoltaics and Photocatalysts Hyojung CHA (Kyungpook National University, Korea)
10:55-11:10	**[OR-102]** Architecting Stable Percolated Spiro-OMeTAD Networks via Mutualistic Radical-Dopant Synergy Dohyun KIM (Pohang University of Science and Technology (POSTECH), Korea)	**[OR-109]** Heterostructure Engineering of Lead-free 0D/1D Perovskites via Mechanochemistry for White Light Emission Jaeyoon CHO (Seoul National Univeristy, Korea)	**[IL-62]** (11:00-11:25) Design and Synthesis of Semiconducting Polymers for Solar-driven Hydrogen Evolution Ho–Hsiu CHOU (National Tsing Hua University, Chinese Taipei)
11:10-11:25	**Emerging Materials and Systems** **[OR-103]** Near-Infrared Fluorescence Behavior of Pyridinium–Cyclic Enolate Betaine Dyes Naoya SUZUKI (Osaka Metropolitan University, Japan)	**[OR-110]** π-Electron Functionality in Covalent Organic Frameworks Dmytro F. PEREPICHKA (McGill University, Canada)	
11:25-11:40	**[OR-104]** Luminescent Persistent Radicals for Photon Management Applications Sara MATTIELLO (University of Milano–Bicocca, Italy)	**[OR-111]** Anisotropic Liquid Crystal Networks from Programmed Reactive Mesogens Kwang–Un JEONG (Jeonbuk National University, Korea)	**[OR-117]** (11:25-11:40) Impact of Polymer Crystallinity in Organic p/n Heterojunction Nanoparticles on Photocatalytic Activity Tsubasa MIKIE (Hiroshima University, Japan)
11:40-11:55	**[OR-105]** Symmetry-Broken Charge Transfer between PAHs' Ionic Radicals Qing WANG (Inner Mongolia University, China)	**[OR-112]** Soluble Conjugated Polymers without Sidechains: Macrocycles as Comonomers Florian GLÖCKLHOFER (TU Wien, Austria)	**[OR-118]** (11:40-11:55) Boosting Active Site Density in Photocatalysts via Oxidation-Tuning Sulfur Segments Main-Chain Engineering Tse–Fu HUANG (National Tsing Hua University, Chinese Taipei)
11:55-12:10		**[OR-113]** The Design and Applications of Membrane-intercalating Conjugated Oligoelectrolytes Cheng ZHOU (South China University of Technology, China)	**[OR-119]** (11:55-12:10) Low-cost Conjugated Polymer Nanoparticles for State-of-the-art Pt-free Hydrogen Photocatalysis Alexandre HOLMES (Chalmers University of Technology, Sweden)
12:10-13:30	Lunch		

Date/ Time	July 3 (Thursday)		
Room		**Landing Ballroom B**	**Landing Ballroom C**
Session 4-2		**Emerging Electronic Materials & Devices**	**Organic Photo(electro)catalyst-III**
Chair		Keehoon KANG (Seoul National University, Korea) Jong Hyun KIM (Ajou University, Korea)	Berta GÓMEZ-LOR (Materials Science Institute of Madrid (ICMM-CSIC), Spain)
13:30-13:55		**[IL-58]** Multifunctional Heterojunction Thin-Film Transistors Based on p-Te/n-Al:IZTO Sooji NAM (Electronics and Telecommunications Research Institute (ETRI), Korea)	**[OR-120]** (13:30-13:45) Design of Organic Semiconductor-based Photocatalysts for Efficient "Solar Fuel" Production Wei-Shi LI (Shanghai Institute of Organic Chemistry, University of Chinese Academy of Sciences, China) **[OR-121]** (13:45-14:00) Advancing Organic Photoelectrochemical Cells for Solar Water Splitting Han-Hee CHO (Ulsan National Institute of Science and Technology (UNIST), Korea)
13:55-14:20		**[IL-59]** Design Strategies for High-Definition & Deformable Quantum Dot Light-Emitting Diodes Moon Kee CHOI (Ulsan National Institute of Science and Technology (UNIST), Korea)	**[OR-122]** (14:00-14:15) Carbon-Neutral Photoelectrochemical Cells for Bias-Free Green Energy Generation Tae-Hyuk KWON (Ulsan National Institute of Science and Technology (UNIST), Korea)
14:20-14:35		**[OR-114]** Wafer-scale Transistor Arrays Fabricated Using Sloot-die Printing of Molybdenum Disulfide and Sodium-em!bedded Alumina Jeong Ho CHO (Yonsei University, Korea)	**[OR-123]** (14:15-14:30) Biomass Based 2D Polymeric Photocatalyst for Rapid Peroxide Production under Visible Light Jiang Tian LIU (University of Toronto, Canada)
14:35-14:50		**[OR-115]** Pyrrole-Fused Naphthalene Diimides (NDPIs) and Its Application in Organic Field-Effect Transistors Kexiang ZHAO (Institute of Science Tokyo, Japan)	**[OR-124]** (14:30-14:45) Advancing Organic Photoanodes for Photoelectrochemical Cells: Efficiency and Stability Jae Hoon SON (Korea University, Korea)
14:50-15:05		**[OR-116]** Crosslinked Donor-Acceptor Electrets for Solution-Processed Polymer Synaptic Transistor Memories Waner HE (Institute of Science Tokyo, Japan)	
15:00-15:15	Break (15 min)		
15:15-15:45	**[Room: Landing Ballroom A]**	**Closing Ceremony [Prize Draw]**	