# EL2018 Poster Presentation (12th Sep., 16:20-18:20)

## 1. Organic EL Materials

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| P - 1 | **Toshinori** | **Matsushima** | Kyushu Univ., Japan | Enhanced Electroluminescence from Organic Light-Emitting Diodes with an Organic-Inorganic Perovskite Host Layer |
| P - 2 | **Shota** | **Kabe** | Tokyo Univ. of Science, Japan | Design Strategy of Hole-Transporting Materials for Operationally Stable Organic Light-Emitting Diodes |
| P - 3 | **Takahiro** | **Kamata** | Yamagata Univ., Japan | Development of A Hexaphenylbenzene-based Hole-transporter Realizing Long Life Green TADF OLEDs at High Brightness |
| P - 4 | **Yanping** | **Huo** | Guangdong University of Technology, China | Solution-Processed Deep Blue Organic Light-Emitting Diodes based on 9,9-Dihexyl-2-Phenyl-9H-Fluorene Modified Imidazole Derivatives |
| P - 5 | **Tomoya** | **Ishii** | Osaka Prefecture Univ., Japan | Triexponential photoluminescence decay due to a higher triplet excited state in a TADF emitter |
| P - 6 | **Yoshihito** | **Sukegawa** | Yamagata Univ., Japan | Deposition condition dependence and formation dynamics of molecular orientation of OLED materials |

## 2. Organic EL Devices (OLED)

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| P - 7 | **Tatsuo** | **Mori** | Aichi Institute of Technology, Japan | Estimation of Electron Current in Alq3-Based OLEDs with HAT-CN |
| P - 8 | **Xun** | **Tang** | Soochow University, China | High Efficiency White Organic Light-Emitting Diodes by Utilizing Novel D-Spiro-A Materials and Rational Exciplex Allocation |
| P - 9 | **Satoru** | **Aoyama** | Aichi Institute of Technology, Japan | Study on Luminescence and Conduction Mechanisms of Inverted Alq3-Based Organic Light-Emitting Diodes |
| P - 10 | **Shohei** | **Dokiya** | Nara Institute of Science and Technology, Japan | Organic Light-emitting Diodes with PIN Structure of All TPCO Derivatives |
| P - 11 | **Lieven** | **Penninck** | Fluxim AG, Switzerland | Mapping the design space of Metal-oxide/Metal/Metal-oxide electrodes in conventional and scattering OLEDs |
| P - 12 | **Yu** | **Esaki** | Kyushu Univ., Japan | Enhancement of Electrical Properties and Air Stability in High-Density Organic Amorphous Films |
| P - 13 | **Zuo-Quan** | **Jiang** | Soochow University, China | Spiro-Linked Architecture in Constructing Effective Materials for OLEDs |
| P - 14 | **Ryo** | **Nagata** | Kyushu University, Japan | Harvesting of singlet fission as electroluminescence in organic light-emitting diodes |
| P - 15 | **Kok Wai** | **Cheah** | Hong Kong Baptist University, China | Thermally Activated Delayed Fluorescence Host for High Performance Organic Light-Emitting Diodes |
| P - 16 | **Ya-Kun** | **Wang** | Soochow University, China | Manipulating Oxygen Atoms for Efficient Near-Infrared/Far-Red Electroluminescence Sensitized by Thermally Activated Delayed Fluorescence |
| P - 17 | **Dai** | **Taguchi** | Tokyo Tech., Japan | Direct imaging of ambipolar carrier injection and transport processes in organic light-emitting transistor by using time-resolved microscopic electric-field-induced optical second-harmonic generation measurement |
| P - 18 | **Akihiro** | **Kimura** | Konica Minolta Inc., Japan | Explication of mechanism of the electron-transporting property and electron-injecting property |
| P - 19 | **Duy** | **Le Cong** | Japan Advanced Instittute of Science and Technology, Japan | Effect of post treatment on the stability of organic light emitting diodes |
| P - 20 | **Kohei** | **Nakao** | Yamagata University, Japan | A Structure-Property Relationship of Pyrimidine-based Blue TADF Emitters Realizing EQE close to 25% |
| P - 21 | **Makoto** | **Takada** | Osaka Prefecture Univ., Japan | Interfacial charges and electroluminescence in bilayer organic light-emitting diodes with different hole transport materials |
| P - 22 | **Makoto** | **Takada** | Osaka Prefecture Univ., Japan | Negative capacitance of bilayer organic light-emitting diodes -its correlation with current efficiency and device lifetime - |
| P - 23 | **Alhama** | **Arjona Esteban** | cynora GmbH, Germany | Highly efficient deep blue TADF emitter materials as potential replacement for current commercial OLED displays |

## 3. Light Emitting Electrochemical Cell (LEC)

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| P - 24 | **Tetsuya** | **Higeta** | Meiji Univ., Japan | Formation and Growth of Dark Spot in a Light-emitting Electrochemical Cell |
| P - 25 | **Yutaka** | **Noguchi** | Meiji Univ., Japan | Simultaneous Observation of Transient Electrical and Luminous Characteristics in Light-emitting Electrochemical Cells |

## 4. Process and Application of Organic Light Emitting Diode

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| P - 26 | **Kohei** | **Endo** | Yamagata University, Japan | Post-Treatment-Free Solution-Processed Reduced Phosphomolybdic Acid Containing Molybdenum Oxide Units for Efficient Hole-Injection Layers in Organic Light-Emitting Devices |

## 5. Carrier Injection Type Inorganic EL (LED)

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| P - 27 | **Adrian** | **Kitai** | McMaster University, Canada | Polymer-Embedded AC-driven LED Assembly |

## 6. Impact Excitation Type Inorganic EL

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| P - 28 | **Hiroshi** | **Takashima** | AIST, Japan | Electroluminescence of perovskite Pr, Al doped SrTiO3 thin films |
| P - 29 | **Takatoshi** | **Nishiguchi** | Meiji Univ., Japan | Electroluminescence from impact excitation and carrier injection process in a same devices |
| P - 30 | **Kunitoshi** | **Yanagihara** | Meiji Univ., Japan | Characterization of Amorphous Semiconductor Layer in DC-EL Devices |
| P - 31 | **Atsuhiro** | **Ookawa** | Meiji Univ., Japan | Electroluminescent Devices Having the MgO Layer |
| P - 32 | **Kenta** | **Murakami** | Meiji Univ., Japan | DC-EL devices with NPN structure |
| P - 33 | **Taewook** | **Kang** | Pukyong National University, Republic of Korea | Silicon wafer-based thin film electroluminescent device of Y2SiO5:Eu3+ phosphor |
| P - 34 | **Taewook** | **Kang** | Pukyong National University, Republic of Korea | Ultraviolet-sound dual-emitting electroluminescent device based on ZnGa2O4 phosphor and PVDF piezoelectric |

## 7. Powder Type Inorganic EL

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| P - 35 | **Shuichi** | **Sato** | Tokyo Denki University, Japan | Emission properties of dispersed-type inorganic EL devices using frequency-variable high-voltage oscillation circuit |
| P - 36 | **Maxim** | **Sychov** | St. Petersburg State Institute of Technology, Russia | Small angle scattering investigation of ZnS-Cu solid solution decomposition and CuxS nanoparticle formation in ZnS matrix |
| P - 37 | **Siwei** | **Ma** | McMaster University, Canada | CuO Nanowire/Oxide-Phosphor AC Powder Electroluminescent Device |

## 8. Quantum Dots and Nano-Phosphor materials

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| P - 38 | **Shimpei** | **Miyata** | Keio Univ., Japan | Investigation of green-emitting perovskite CsPb(Br1-xIx)3 quantum dots with a high color purity for wide color gamut displays |
| P - 39 | **Seung-Won** | **Lim** | Hongik University, Korea | Operational stability improvement of InP quantum dots-integrated white light-emitting diode through unconventional silica passivation |
| P - 40 | **Satoshi** | **Tsukuda** | Tohoku Univ., Japan | Synthesis and optical properties of Zn(Te, Se)/ZnS core/shell quantum dots; Cadmium-free green QD-phosphor |
| P - 41 | **Haruko** | **Inayoshi** | Tohoku University, Japan | Temperature-dependent photoluminescence of colloidal quantum dots at high temperatures |
| P - 42 | **Samuel** | **Peter** | McMaster University, Canada | Photoluminescence Enhancement of Ce:YAG Nanoparticle Fluorescence via Core/Shell Structures |
| P - 43 | **Masanao** | **Era** | Saga Univ., Japan | Optical properties of lead iodide-based layered perovskite self-organized quantum well |
| P - 44 | **Taewook** | **Kang** | Pukyong National University, Republic of Korea | Excitation narrowing of red-emissive Sr2Si5N8:Eu2+ nanophosphor |

## 9. Quantum Dot Light Emitting Diode

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| P - 45 | **Jong-Hoon** | **Kim** | Hongik University, Korea | High-efficiency white bichromatic I-III-VI quantum dot-light-emitting diodes for lighting application |
| P - 46 | **Yoshihito** | **Takahashi** | Yamagata University, Japan | High-Efficient Perovskite Quantum-Dots LEDs Based on Low Dielectric Constant Washing Solvent Diglyme |
| P - 47 | **Hinako** | **Ebe** | Yamagata University, Japan | Highly Efficient Perovskite Quantum-Dot Light-Emitting Device by Gel permeation chromatography as new purification process and Interfacial Engineering using Alkyl Ammonium Salt Layer |
| P - 48 | **Taewook** | **Kang** | Pukyong National University, Republic of Korea | Long-lived and transparent quantum dot light emitting diode by silver nanowire-conductive oxide composite cathode |

## 10. Inorganic Phosphor Materials

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| P - 49 | **Taewook** | **Kang** | Pukyong National University, Republic of Korea | Saturationless luminescence of blue laser-excited YAG-Al2O3 composite ceramic synthesized from nanomaterials |
| P - 50 | **Masanao** | **Era** | Saga Univ., Japan | Enhancement of photoluminescence in PbBr-based perovskite spin-coated films by Sn2+ cation mixing |
| P - 51 | **Ekaterina** | **Ledeneva** | North-Caucasian Federal University, Russian | Investigation of spectral characteristics of calcium niobate CaNb2O6 iterated by ytterbium and golmiia |
| P - 52 | **Maiko** | **Yamane** | Gakushuin University, Japan | Site selectivity of Pr3+ and photoluminescence in SrTiO3:Pr3+ phosphors |
| P - 53 | **Yasushi** | **Nanai** | Aoyama Gakuin Univ., Japan | Cr-doped Mg2SiO4 phosphors for wideband near-infrared LEDs |
| P - 54 | **Seiya** | **Nishimura** | Aoyama Gakuin Univ., Japan | Ultra-wideband near-infrared light-source by stacking Tm3+-doped glass phosphor on Pr3+-doped glass phosphor excited by a blue LED |
| P - 55 | **Ryo** | **Yamamoto** | Kyushu Institute of Technology, Japan | Determination of Ln3+ 4f energy and understanding of luminescence mechanisms in perovskite-type CaMO3 (M=Ti, Sn) |
| P - 56 | **Takashi** | **Kunimoto** | Tokushima Bunri Univ., Japan | Development of Eu2+ and Mn2+ Co-activated Silicate Phosphor for Plant-Cultivation Light Source |
| P - 57 | **Masato** | **Ohkawa** | Shizuoka Univ., Japan | Effects of Al Addition to Photoluminescent Properties of SrCaMgSi2O7:Eu for Afterglow Phosphor |
| P - 58 | **Yu** | **Kato** | Shizuoka Univ., Japan | Improvement of Photoluminescent Properties of Mg doped CaAl12O19:Mn Deep Red Emitting Phosphor |
| P - 59 | **Takeshi** | **Kanno** | Kanazawa Institute of Technology, Japan | Structural and luminescent characteristics of ZnO thin films fabricated by mist chemical vapor deposition method |
| P - 60 | **Yuta** | **Shimooki** | Kanazawa Institute of Technology, Japan | Photoluminescent and photoacoustic properties in Bi-activated Ln4Al2O9 (Ln = Y, La, Gd) Phosphors |
| P - 61 | **Uliana** | **Maryina** | North-Caucasus Federal University, Russian Federation | Infrared phosphors based on calcium stannate doped with Zn2+ ions |
| P - 62 | **Yuya** | **Higuchi** | Niigata University, Japan | Single Crystal Growth of Nitride and Oxynitride Phosphors using a Gas-Solid Phase Hybrid Synthesis Method |
| P - 63 | **Martin** | **Ntwaeaborwa** | University of the Witwatersrand, South Africa | Synthesis and Characterization of Rare-earths Doped Nanocomposites |
| P - 64 | **Minseuk** | **Kim** | Sejong University, Korea | A novel Mn4+-activated Phosphors exhibiting faster decay, (Rb,Cs)3SiF7:Mn4+ |

## 11. Late News

| | | | | |
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| P - 65 | **Man Chung** | **Tang** | The University of Hong Kong, China | Highly Emissive Fused Heterocyclic Alkynylgold(III) Complexes for Multiple Color Emission Spanning from Green to Red for Solution-Processable Organic Light-Emitting Devices |
| P - 66 | **Lok Kwan** | **Li** | The University of Hong Kong, China | Versatile Design Strategy for Highly Luminescent Vacuum-Evaporable and Solution-Processable Tridentate Gold(III) Complexes with Monoaryl Auxiliary Ligands and Their Applications for Phosphorescent Organic Light Emitting Devices |
| P - 67 | **Satoshi** | **Tanaka** | Tottori University, Japan | AC Powder EL Devices Prepared Using ZnS:Cu Nanophosphor |