### 1. Organic EL Materials

| 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 Hexaphenylobenzene-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)

| 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 Institute 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)
4. Process and Application of Organic Light Emitting Diode

- **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

5. Carrier Injection Type Inorganic EL (LED)

- **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

6. Impact Excitation Type Inorganic EL

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

7. Powder Type Inorganic EL

- **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

8. Quantum Dots and Nano-Phosphor materials

- **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

- **P - 38** Shimpei Miyata, Keio Univ., Japan
  - Investigation of green-emitting perovskite CsPb(Br1-xI)x3 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(Se, Te)/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

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

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 Federation Investigation of spectral characteristics of calcium niobate CaNb2O6 iterated by ytterbium and golmnia

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 CaAl2O3:Eu 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

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 Tridenate 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