

Oral Presentation

[OLED4]QD Material & Devices

Special Topics of Interest on Quantum Dot Technologies

Chair: Takeo Wakimoto (Merck Performance Materials)

Co-Chair: Toshiaki Ikuta (JNC Corp.)

Thu. Nov 28, 2019 9:00 AM - 10:35 AM Room 204 (2F)

9:00 AM - 9:20 AM

[OLED4-1(Invited)]Anion Exchange Perovskite Quantum-Dots for Highly Efficient Light Emitting Devices

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Keywords: Perovskite, Quantum-dots, Ligand exchange, Anion-exchange, LED

Perovskites quantum dots have attracted much attention for used in display and lighting applications, owing to their narrow band emission with high photoluminescence quantum yields, color tunability, and solution processability. Here, we demonstrate ligand-exchange and anion-exchange perovskite quantum dots using ammonium salts for use in highly efficient light-emitting devices.