

Oral Presentation

[MEET4]Emerging Quantum Dots and Nanotechnologies (2)

Special Topics of Interest on Quantum Dot Technologies

Chair: Shuming Chen (Southern University of Science and Technology)

Co-Chair: Zhaojun Liu (Southern University of Science and Technology)

Fri. Nov 29, 2019 10:40 AM - 11:40 AM Conference Hall (1F)

11:20 AM - 11:40 AM

[MEET4-3(Invited)]Hybrid Colloidal Quantum Dot Photonic Devices

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Keywords:colloidal quantum dots, package for photonic devices, light emitting diodes, solar cells

In recent years, colloidal quantum dots (CQDs) have been the focus of attention due to their highly efficient illumination, narrow linewidth emission, and widely tunable emission wavelength. Various types of devices have been implemented for the photonic devices to incorporate these novel materials. Both photon generation and absorption can be accomplished by CQDs and the corresponding light emitting diodes and solar cells can be designed to utilize their special characteristics. In this talk, we will provide our latest progress on such devices and the past experience we had in our lab. The highly reliable CQD package will play a crucial rule for the next generation photonic devices.