Professor Li Liang

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Macao Institute of Materials Science and Engineering
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Academic Qualification:

Ph.D. in Applied Chemistry, Shanghai Jiaotong University, 2006

Teaching Area

Materials science, Chemistry

Research Area

Synthesis of Semiconductor Nanocrystals and phosphors for LED applications

Quantum Dots based light-emitting diode (QLED) devices

Working Experience

Professor, Macau University of Science and Technology, Macau, 2022-Prfesent

Professor, Shanghai Jiaotong University, Shanghai, 2013 - 2022

Professor, Ningbo Institute of Materials Technology and Engineering, Chinese Academy of Sciences, 2012-2013

Senior Scientist/Project Leader, Intematix Corporation, U.S., 2011- 2012

Postdoctoral Researcher, University of California at Santa Barbara/Los Alamos National Laboratory, U.S. 2009-2011

Postdoctoral Researcher, CEA Grenoble, France, 2006-2008

Selected Journal Papers

1. Stable Lead-Free Tin Halide Perovskite with Operational Stability>1200h by Suppressing Tin(II) Oxidation, QG, Zhang, SQ, Liu, MD, He, WL, Zheng, Q Wan, MM, Liu, XR, Liao, WJ, Zhan, CW, Yuan, JY, Liu, HJ, Xie, XJ, Guo, L, Kong*, L,LI*, Angew. Chem.Int. Ed. 61, e2022054 （2022）.

2. Suppression of temperature quenching in perovskite nanocrystals for efficient and thermally stable light-emitting diodes, MM, Liu, Q. Wan, HM. Wang, F. Carulli, XC. Sun, WL. Zheng, L. Kong, Q. Zhang, CY. Zhang, QG. Zhang, S. Brovelli*, L. Li*, Nature Photonics，15, 379-385 （2021）.

3. Metal Halide Perovskite Nanocrystals in Metal-Organic Framework Host: Not Merely Enhanced Stability, CY. Zhang, WB. Li, L. Li*, 2021, Angewandte Chemie International Edition, 60,7488–7501 （2021）.

4. Ceramic-like stable CsPbBr3 nanocrystals encapsulated in silica derived from molecular sieve templates, QG. Zhang, B. Wang, WL. Zheng, L. Kong, Q. Wan, CY. Zhang, ZC. Li, XY. Cao, MM. Liu, L. Li*, Nature Communications, 11, 1-9（2020）.

5. General Method for the Synthesis of Ultrastable Core/Shell Quantum Dots by Aluminum Doping, ZC, Li, W, Yao, L, Kong, YX, Zhao, L, Li*, Journal of the American Chemical Society, 137, 12430-12433（2015）.