

Curriculum Vitae

Liang Li

Ph.D Macau University of Science and Technology

Address: 800 Dongchuan Road, Shanghai, 200240, China

Telephone: +853 68860481

E-mail: lli@must.edu.mo

Web: <https://www.webofscience.com/wos/author/record/T-4075-2019>



EDUCATION

Shanghai Jiao Tong University, Shanghai, China Ph.D Applied Chemistry 2006

Central South University, Changsha, China MS Physical Chemistry 2003

POSITION HELD

- **Full Professor**, Macao Institute of Materials Science and Engineering Macau University of Science and Technology, Macau, 2022-Present
- **Full Professor**, School of Environmental Science and Engineering, Shanghai Jiao Tong University, China, June 2013- August, 2022
- **Full Professor**, Ningbo Institute of Industrial Technology, CAS, China, September 2012 to June 2013.
- **Senior Scientist/Project Leader**, Intematix Corporation, United States, July 2011 to September 2012.
- **Postdoctor**, Los Alamos National Laboratory, United States, January 2010 to July 2011.
- **Postdoctor**, University of California at Santa Barbara, United States, January 2009 to January 2010.
- **Postdoctor**, CEA Grenoble, France, September 2006 to December 2008.

AWARD AND HONORS

Nomination award of China TOP 10 research progress in optics of 2021

Best Editor award of Nanoresearch (Journal), 2021

Best Paper award of SESE Shanghai Jiaotong University, 2021

The most favorated teacher of SESE Shanghai Jiaotong University, 2020

Excellent Award for the industrialization of scientific technology, SJTU, 2018

Best Paper award of SESE Shanghai Jiaotong University, 2018

The First Prize of Natural Science Award by the Ministry of Education, China, 2016

Best Paper award of SESE Shanghai Jiaotong University, 2015

Feixiang program for young talents, Science and technology Commission of Shanghai, 2014

Program for New Century Excellent Talents, China, 2013

Publication Record:112 peer-reviewed journal papers. Citation times = 11000+, H-index = 42

Curriculum Vitae

Peer-reviewed Journal Publications (96)	Numbers
Nature Photonics	2
Nature Nanotechnology	1
Advanced Materials	1
ACS Energy Lett.	3
Journal of the American Chemical Society	5
Angewandte Chemie International Edition	4
Nature Communications	2
Chemical Engineering Journal	2
Nano Energy	1
Journal of Materials Chemistry A	3
Journal of Hazardous Materials	3
Chemical Science	3
Chemistry of Materials	4
Advanced Optical Materials	2
ACS Applied Materials and interface (Applied nanomaterials, Sustainable Chemistry & Engineering)	7
Nano Research/Nanoscale/Chemical Communications/Small	11
J. Phys. Chem. (L, B,C)	4
Other Journals (Impact factor ~4-6)	42

Peer reviewed journal publications (selected)

- Mengda He, Qinggang Zhang, Francesco Carulli, Andrea Erroi, Weiyu Wei, Long Kong, Changwei Yuan, Qun Wan, Mingming Liu, Xinrong Liao, Wenji Zhan, Lei Han, Xiaojun Guo, Sergio Brovelli, **Liang Li***, Ultra-stable, solution-processable CsPbBr₃-SiO₂ nano spheres for highly efficient color conversion in μ -LEDs, **ACS Energy Lett.** 2023, 8, 151–158
- Matteo L. Zaffalon, Francesca Cova, Mingming Liu, Alessia Cemmi, Ilaria Di Sarcina, Francesca Rossi, Francesco Carulli, Andrea Erroi, Carmelita Rodà, Jacopo Perego, Angiolina Comotti, Mauro Fasoli, Francesco Meinardi, **Liang Li***, Anna Vedda*, Sergio Brovelli* Extreme γ -ray radiation hardness and high scintillation yield in perovskite nanocrystals, **Nature Photonics**, 2022, 16, 860–868.
- Qinggang Zhang, Shiqiang Liu, Mengda He, Weilin Zheng, Qun Wan, Mingming Liu, Xinrong Liao, Wenji Zhan, Changwei Yuan, Jinyu Liu, Haijiao Xie, Xiaojun Guo, Long Kong*, **Liang Li*** Stable Lead-Free Tin Halide Perovskite with Operational Stability >1200h by Suppressing Tin(II) Oxidation, **Angewandte Chemie-International Edition**, 2022, 61, e2022054.
- Qinggang Zhang, Mengda He, Qun Wan, Weilin Zheng, Minmin Liu, Congyang Zhang, Xinrong Liao, Wenji Zhan, Long Kong, Xiaojun Guo, **Liang Li***, Suppressing thermal quenching of lead halide perovskite nanocrystals by constructing a wide-bandgap surface layer for achieving thermally stable white light-emitting diodes, **Chemical Science** 2022, 13 3719–3727.
- Congyang Zhang, Qun Wan, Luis K Ono, Yuqiang Liu, Weilin Zheng, Qinggang Zhang, Mingming Liu, Long Kong, **Liang Li***, Yabing Qi*, "Narrow-Band Violet-Light-Emitting Diodes Based on Stable Cesium Lead Chloride Perovskite Nanocrystals" **ACS Energy Lett.** 2021, 6, 3545–3555.
- Mingming Liu, Qun Wan, Huamiao Wang, Francesco Carulli, Xiaochuan Sun, Weilin Zheng, Long Kong, Qi Zhang, Congyang Zhang, Qinggang Zhang, Sergio Brovelli*, **Liang Li***, Suppression of temperature quenching in perovskite nanocrystals for efficient and thermally stable light-emitting diodes, **Nature Photonics**, 2021, 15, 379–385.
- Congyang Zhang, Wanbin Li, **Liang Li***, Metal Halide Perovskite Nanocrystals in Meta

Curriculum Vitae

- l-Organic Framework Host: Not Merely Enhanced Stability, 2021, **Angewandte Chemie-International Edition**, 2021, 60,7488–7501.
8. Qinggang Zhang, Bo Wang, Weilin Zheng, Long Kong, Qun Wan, Congyang Zhang, Zhichun Li, Xueyan Cao, Mingming Liu, **Liang Li***, Ceramic-like stable CsPbBr₃ nanocrystals encapsulated in silica derived from molecular sieve templates, **Nature Communications**, 2020, 11, 1-9.
 9. Lu Huang, Zhichun Li, Congyang Zhang, Long Kong, Bo Wang, Shouqiang Huang, Vaisali Sharma, Houyu Ma, Qingchen Yuan, Yue Liu, Guoqing Shen, Kaifeng Wu, **Liang Li***, Sacrificial oxidation of a self-metal source for the rapid growth of metal oxides on quantum dots towards improving photostability, **Chemical Science**, 2019, 10, 6683-6688.
 10. Congyang Zhang, Bo Wang, Weilin Zheng, Shouqiang Huang, Long Kong, Zhichun Li, Gufeng He, **Liang Li***, Hydrofluoroethers as orthogonal solvents for all-solution processed perovskite quantum-dot light-emitting diodes, **Nano Energy**, 2018, 51, 358-365.
 11. Congyang Zhang, Bo Wang, Wanbin Li, Shouqiang Huang, Long Kong, Zhichun Li, **Liang Li***, Conversion of invisible metal-organic frameworks to luminescent perovskite nanocrystals for confidential information encryption and decryption, **Nature Communications**, 2017, 8, 1138.
 12. Zhichun Li, Long Kong, Shouqiang Huang, **Liang Li***, Highly Luminescent and Ultrastable CsPbBr₃ Perovskite Quantum Dots Incorporated into a Silica/Alumina Monolith, **Angewandte Chemie-International Edition**, 2017, 129, 8246 –8250.
 13. Shouqiang Huang, Zhichun Li, Long Kong, Nanwen Zhu, Aidang Shan, **Liang Li***, Enhancing the Stability of CH₃NH₃PbBr₃ Quantum Dots by Embedding in Silica Spheres Derived from Tetramethyl Orthosilicate in “Waterless” Toluene, **Journal of the American Chemical Society**, 2016, 138, 5749–5752.
 14. Zhichun Li, Wei Yao, Long Kong, Yixin Zhao, **Liang Li***, General Method for the Synthesis of Ultrastable Core/Shell Quantum Dots by Aluminum Doping, **Journal of the American Chemical Society**, 2015, 137, 12430-12433.
 15. A. Pandey, S. Brovelli, R. Viswanatha, **Liang Li**, J.M.Pietryga, V.I. Klimov*, S.A. Crooker*. Long-lived photo induced magnetization in copper doped ZnSe–CdSe core–shell nanocrystals, **Nature Nanotechnology**, 2012, 7, 792-797.
 16. **Liang Li**, Anshu Pandey, Donald J. Werder, Bishnu P. Khanal, Jeffrey M. Pietryga, Victor I. Klimov*, Efficient Synthesis of Highly Luminescent Copper Indium Sulfide-Based Core/Shell Nanocrystals with Surprisingly Long-Lived Emission, **Journal of the American Chemical Society**, 2011, 133, 1176-1179.
 17. Ung Thi Dieu Thuy, Pham Thi Thuy, Nguyen Quang Liem, **Liang Li**, Peter Reiss, Comparative photoluminescence study of close-packed and colloidal InP/ZnS quantum dots, **Applied Physics Letters**, 2010, 96, 073102-1- 073102-3.
 18. Nelson E. Coates, Huiqiong Zhou, Stephan Krämer, **Liang Li**, Daniel Moses*, Solution-Based In Situ Synthesis and Fabrication of Ultrasensitive CdSe Photoconductors, **Advanced Materials**, 2010, 22, 5366-5369.
 19. **Liang Li**, Nelson Coates, Daniel Moses*, Solution-Processed Inorganic Solar Cell Based on in Situ Synthesis and Film Deposition of CuInS₂ Nanocrystals, **Journal of the American Chemical Society**, 2010, 132, 22-23.
 20. **Liang Li**, Peter Reiss*, One-pot Synthesis of Highly Luminescent InP/ZnS Nanocrystals without Precursor Injection, **Journal of the American Chemical Society**, 2008, 130, 11588-11589.

Supervision of students (selected)

Curriculum Vitae

Name	Date
Mengda He (PhD)	2022.03-present
Qiangang Zhang (Postdoctoral)	2021.09-present
Xinrong Liao (PhD)	2021.09-present
Changwei Yan	2021.09-present
Wenji Zhang (PhD)	2020.09-present
Bo Wang (PhD)	2015.09-2020.7
Wei Liu (PhD)	2016.09-2021.7
Weilin Zheng (PhD)	2017.09-2021.7
Qinggang Zhang (PhD)	2018.09-2021.7
Qun Wan (PhD)	2018.09-2022.8
Mingming Liu (PhD)	2019.03-present
Xiuping Feng (Master)	2018.09-2021.07
Ruixin Yan (Master)	2018.09-2021.07
Vaishali Sharma (Master)	2018.09-2022.07
Xunqiang Cheng (Master)	2019.09-2022.07
Junqing Xu (Master)	2019.09-2022.07
Shouqiang Huang (Postdoctoral)	2015.06-2018.12
Long Kong (PhD)	2013.09-2018.06
Zhichun Li (PhD)	2013.09-2018.09
Congyang Zhang (PhD)	2015.09-2019.06
Jingwei Ma (Master)	2013.09-2016.03
Lu Huang (Master)	2014.09-2017.03
HIROTAKA IWASHITA(Master)	2014.09-2017.03
Xueqiong Huang (Master)	2015.09-2018.03
Hua Sun (Master)	2016.09-2019.03
Junhui Liu (Master)	2016.09-2019.03
Qi Zhang (Master)	2017.09-2020.03
MARIO KUNIYOSHI(Master)	2017.09-2020.03