Yiqing Lu
Research Fellow
Department of Physics and Astronomy
Email: yiqing.lu@mq.edu.au
Phone: 8190

Research output

1. **3D sub-diffraction imaging in a conventional confocal configuration by exploiting super-linear emitters.** / Denkova, Denitza; Ploschner, Martin; Das, Minakshi; Parker, Lindsay; Zheng, Xianlin; Lu, Yiqing; Orth, Antony; Packer, Nicolle; Piper, James.

2. **Label-free fluorescent poly(amideamine) dendrimer for traceable and controlled drug delivery.** / Wang, Guoying; Fu, Libing; Walker, Adam; Chen, Xianfeng; Lovejoy, David B.; Hao, Mingcong; Lee, Albert; Chung, Roger; Rizos, Helen; Irvine, Mal; Zheng, Meng; Liu, Xihua; Lu, Yiqing; Shi, Bingyang.
   In: Biomacromolecules, Vol. 20, No. 5, 13.05.2019, p. 2148-2158.

3. **Developing a pH-sensitive Al(OH)₃ layer-mediated UCNP@Al(OH)₃/Au nanohybrid for photothermal therapy and fluorescence imaging in vivo.** / Chen, Jian; Zhang, Dongya; Zou, Yan; Wang, Zhongjie; Hao, Mingcong; Zheng, Meng; Xue, Xue; Pan, Xiaoxi; Lu, Yiqing; Wang, Jiefei; Shi, Bingyang.

4. **Lifetime-engineered NIR-II nanoparticles unlock multiplexed in vivo imaging.** / Fan, Yong; Wang, Peiyuan; Lu, Yiqing; Wang, Rei; Zhou, Lei; Zheng, Xianlin; Li, Xiaoming; Piper, James; Zhang, Fan.

5. **DNA nanoclew templated spherical nucleic acids for siRNA delivery.** / Ruan, Weimin; Zheng, Meng; An, Yang; Liu, Yuanyuan; Lovejoy, David; Hao, Mingcong; Zou, Yan; Lee, Albert; Yang, Shu; Lu, Yiqing; Morsch, Marco; Chung, Roger; Shi, Bingyang.

6. **A Versatile upconversion surface evaluation platform for bio-nano surface selection for the nervous system.** / Fu, Libing; Morsch, Marco; Shi, Bingyang; Wang, Guoying; Lee, Albert; Radford, Rowan; Lu, Yiqing; Jin, Dayong; Chung, Roger.

7. **Amplified stimulated emission in upconversion nanoparticles for super-resolution nanoscopy.** / Liu, Yujia; Lu, Yiqing; Yang, Xusan; Zheng, Xianlin; Wen, Shihui; Wang, Fan; Vidal Asensio, Xavier; Zhao, Jiangbo; Liu, Deming; Zhou, Zhiguang; Ma, Chenshuo; Zhou, Jiajia; Piper, James A.; Xi, Jing; Jin, Dayong.

8. **High-Contrast Visualization of Upconversion Luminescence in Mice Using Time-Gating Approach.** / Zheng, Xianlin; Zhu, Xingjun; Lu, Yiqing; Zhao, Jiangbo; Feng, Wei; Jia, Guohua; Wang, Fan; Li, Fuyou; Jin, Dayong.

9. **Phosphorylated Peptide Functionalization of Lanthanide Upconversion Nanoparticles for Tuning Nanomaterial-Cell Interactions.** / Yao, Chi; Wei, Caiyi; Huang, Zhi; Lu, Yiqing; El-Toni, Ahmed Mohamed; Ju, Dianwen; Zhang, Xiangmin; Wang, Wenning; Zhang, Fan.
   In: ACS Applied Materials and Interfaces, Vol. 8, No. 11, 30.03.2016, p. 6935-6943.

10. **Nanostructured Silicon-Based Fingerprint Dusting Powders for Enhanced Visualization and Detection by Mass Spectrometry.** / Guinan, Taryn M.; Kobus, Hilton; Lu, Yiqing; Sweetman, Martin; Mclnnes, Steven J P; Kirkbride, K. Paul; Voelcker, Nicolas H.


17. Emission stability and reversibility of upconversion nanocrystals. / Liu, Deming; Xu, Xiaoxue; Wang, Fan; Zhou, Jiajia; Mi, Chao; Zhang, Lixin; Lu, Yiqing; Ma, Chenshao; Goldys, Ewa; Lin, Jun; Jin, Dayong. In: Journal of Materials Chemistry C, Vol. 4, No. 39, 2016, p. 9227-9234.


19. One-Step Protein Conjugation to Upconversion Nanoparticles. / Lu, Jie; Chen, Yinghui; Liu, Deming; Ren, Wei; Lu, Yiqing; Shi, Yu; Piper, James; Paulsen, Ian; Jin, Dayong. In: Analytical Chemistry, Vol. 87, No. 20, 20.10.2015, p. 10406-10413.

20. Practical implementation, characterization and applications of a multi-colour time-gated luminescence microscope. / Zhao, Lixin; Zheng, Xinlan; Deng, Wei; Lu, Yiqing; Lechevallier, Severine; Ye, Zhiquiang; Goldys, Ewa M.; Dawes, Judith M.; Piper, James A.; Yuan, Jingli; Verelst, Marc; Jin, Dayong. In: Scientific Reports, Vol. 4, 6597, 13.10.2014, p. 1-6.

21. On-the-fly decoding luminescence lifetimes in the microsecond region for lanthanide-encoded suspension arrays. / Lu, Yiqing; Jin, Dayong; Zhao, Jiangbo; Cusido, Janet; Raymo, Francisco M.; Yuan, Jingli; Yang, Sean; Leif, Robert C.; Hsu, Yujing; Piper, James A.; Robinson, J.; Goldys, Ewa M.; Jin, Dayong. In: Nature Communications, Vol. 5, 3741, 06.05.2014, p. 1-8.

22. Tunable lifetime multiplexing using luminescent nanocrystals. / Lu, Yiqing; Zhao, Jiangbo; Zhang, Run; Liu, Yujia; Lu, Deming; Goldys, Ewa M.; Yang, Xunan; Xi, Peng; Sunna, Anwar; Lu, Jie; Shi, Yu; Leif, Robert C.; Hsu, Yujing; Shen, Jian; Piper, James A.; Robinson, J. Paul; Jin, Dayong. In: Nature Photonics, Vol. 8, No. 1, 01.2014, p. 32-36.

23. Single-nanocrystal sensitivity achieved by enhanced upconversion luminescence. / Zhao, Jiangbo; Jin, Dayong; Schartner, Erik P.; Lu, Yiqing; Liu, Yujia; Zvyagin, Andrei V.; Zhang, Lixin; Dawes, Judith M.; Xi, Peng; Piper, James A.; Goldys, Ewa M.; Monro, Tanya M. In: Nature Nanotechnology, Vol. 8, No. 10, 10.2013, p. 729-734.

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30. **Automated detection of rare-event pathogens through time-gated luminescence scanning microscopy.** / Lu, Yiqing; Jin, Dayong; Leif, Robert C.; Deng, Wei; Piper, James A.; Yuan, Jingli; Duan, Yusheng; Huo, Yujing.

31. **Advances in lanthanide bioprobes and high-throughput background-free biophotonics sensing.** / Jin, Dayong; Lu, Yiqing; Zhao, Jiangbo; Deng, Wei; Lu, Jie; Piper, James A.

32. **Cytometric investigation of rare-events featuring time-gated detection and high-speed stage scanning.** / Lu, Yiqing; Piper, James A.; Huo, Yujing; Jin, Dayong.

33. **Solid-state laser system for terahertz radiation generation.** / Huo, Yujing; Chen, Wei; Lu, Yiqing; He, Shufang.