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材料与物理研究所



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刘永升, 博士, 研究员、中国科学院赣江创新研究院博士生导师。主要从事稀土纳米生物医学材料的设计合成及其肿瘤精准诊疗应用研究。2017年入选中科院青促会优秀会员。主持中科院青促会优秀会员专项、国家自然科学基金面上/青年基金项目、先进能源科学与技术广东省实验室创新团队基金等多项研究课题。已在J. Am. Chem. Soc., Adv. Mater., Angew. Chem. Int. Ed.等刊物发表SCI论文55篇, 论文他引>6000次, 10篇论文入选近十年化学、材料和物理领域ESI高被引频次论文; 受理中国发明专利和PCT国际专利17件、授权10件。研究成果分获2018年度福建省自然科学奖二等奖(第二完成人), 2018年度中国稀土科学技术奖一等奖(基础研究类, 第二完成人)。

研究方向:

面向国家战略性新兴产业发展对稀土新材料的重大战略需求, 重点研发精准稀土纳米生物医学诊疗一体化探针, 并突破其可控制备和放大合成技术, 发展高分辨/多模态活体影像新方法, 实现稀土纳米生物医学诊疗一体化探针在临床医学精准手术导航和精准治疗等领域的应用。

代表论著:

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Based on Inter-Particle Energy Transfer”, *CCS Chem.* 2020, 2, 2155-2163.

3. Huhui Fu, Caiping Liu, Pengfei Peng, Feilong Jiang, Yongsheng Liu,* and Maochun Hong,* “Peasecod-like Hollow Upconversion Nanocrystals with Excellent Optical Thermometric Performance”, *Adv. Sci.*, 2020, 7 (14), 2000731.

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9. Yongsheng Liu, Shanyong Zhou, Zhu Zhuo, Renfu Li, Zhuo Chen, Mingdong Huang, Maochun Hong,* and Xueyuan Chen*, “In-Vitro Upconverting/Downshifting Luminescent Detection of Tumor Markers Based on Eu³⁺-Activated Core-Shell-Shell Lanthanide Nanoprobes”, *Chem. Sci.* 2016, 7, 5013-5019.

10. Yongsheng Liu, Datao Tu, Haomiao Zhu, and Xueyuan Chen*, “Lanthanide-Doped Luminescent Nanoprobes: Controlled Synthesis, Optical Spectroscopy, and Bioapplications”, *Chem. Soc. Rev.* 2013, 42, 6924-6858.

11. Yongsheng Liu, Shanyong Zhou, Datao Tu, Zhuo Chen, Mingdong Huang, Haomiao Zhu, En Ma, and Xueyuan Chen*, “Amine-Functionalized Lanthanide-Doped Zirconia Nanoparticles: Optical Spectroscopy, Time-Resolved Fluorescence Resonance Energy Transfer Biodetection and Targeted Imaging”, *J. Am. Chem. Soc.*, 2012, 134, 15083-15090. (Highlighted in JACS Spotlights and Chemical & Engineering News)

12. Yongsheng Liu, Datao Tu, Haomiao Zhu, Renfu Li, Wenqin Luo, and Xueyuan Chen*, “A Strategy to Achieve Efficient Dual-Mode Luminescence of Eu³⁺ in Lanthanides Doped Multifunctional NaGdF₄ Nanocrystals”, *Adv. Mater.*, 2010, 22, 3266-3271.

获奖及荣誉：

2010年获中国科学院院长优秀奖；福建省自然科学优秀学术论文一等奖（2012）；2012年入选海西研究院“春苗计划”人才专项和2013年度中国科学院青年创新促进会会员；研究成果入选2016年“中国稀土十大科技新闻”；2017年入选中国科学院青年创新促进会优秀会员；2018年入选海西研究院“团队人才计划”。2018年分获福建省自然科学二等奖（排名第二），中国稀土科技奖基础研究类一等奖（排名第二）。



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