


基本信息

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简介

李鹏辉，中国科学院深圳先进技术研究院医药所人体组织与器官退行性研究中心副研究员，主要开展纳米材料合成、自组装及在光学检测领域应用研究。2014 年博士毕业于香港城市大学物理与材料科学系，2014-2016 年于中国科学院深圳先进技术研究院任职博士后/助理研究员。主持国家自然科学基金青年基金、中国博士后自然科学基金一等资助项目、深圳市基础研究项目各 1 项；合作主持深圳市学科布局项目、技术攻关项目各 1 项；也作为核心人员参与深圳市孔雀团队项目。截止目前，发表 SCI 收录论文 50 余篇，其中一作或者通讯论文 11 篇，合著出版英文专著 1 本。申请中国发明专利 10 项，获发明专利授权 3 项。

获奖及荣誉

2015 年入选深圳市孔雀人才 C 类；2017 年入选深圳市高层次人才后备级人才。

学科类别

材料科学与工程

研究方向

纳米材料；光学检测

承担科研项目情况

国家自然科学基金；中国博士后基金一等资助；深圳市孔雀团队（成员）；深圳市基

基础研究，深圳市技术攻关等。

主要代表论著

1. **P. H. Li**, W. L. Chen, D. N. Liu, H. Huang, K. Dan, X. N. Hu, S. Z. Yu, P. K. Chu, and X.-F. Yu, “Template Growth of Au/Ag Nanocomposites on Phosphorene for Sensitive SERS Detection of Pesticides”, *Nanotechnology*, 30: 275604 (2019).
2. L. Zhang, Z. Yang, W. Zhu, Z. L. Ye, Y. M. Yu, Z. S. Xu*, J. H. Ren*, and **P. H. Li***, “Dual-Stimuli-Responsive, Polymer-Microsphere-Encapsulated CuS Nanoparticles for Magnetic Resonance Imaging Guided Synergistic Chemo-Photothermal Therapy”, *ACS Biomaterials Science & Engineering*, 3: 1690-1701 (2017).
3. W. Zhu, S. Liang, J. Wang, Z. Yang, L. Zhang, T. M. Yuan, Z. S. Xu*, H. B. Xu*, and **P. H. Li***, “Europium-phenolic Network Coated BaGdF₅ Nanocomposites for Tri-Modal Computed Tomography/Magnetic Resonance/Luminescence Imaging”, *Journal of Materials Science: Materials in Medicine*, 28: 74 (2017).
4. S. Y. Tang, Y. Li, H. Huang, **P. H. Li***, Z. N. Guo, Q. Luo*, Z. Wang, P. K. Chu, J. Li, X.-F. Yu*, “Efficient Enrichment and Self-Assembly of Hybrid Nanoparticles into Removable and Magnetic SERS Substrates for Sensitive Detection of Environmental Pollutants”, *ACS Applied Materials and Interfaces*, 9(8): 7472-7480 (2017).
5. **P. H. Li**, Y. Li, Z.-K. Zhou, S. Y. Tang, X.-F. Yu, S. Xiao, Z. Z. Wu, Q. L. Xiao, Y. T. Zhao, H. Y. Wang, and P. K. Chu, “Evaporative Self-Assembly of Gold Nanorods into Macroscopic 3D Plasmonic Superlattice Arrays”, *Advanced Materials*, 28(13): 2511-2517 (2016). (封面文章)
6. **P. H. Li** and P. K. Chu, “Thin Film Deposition Technologies and Processing of Biomaterials”, in *Thin Film Coatings for Biomaterials and Biomedical Applications*, ISBN: 978-1-78242-453-6 (print), ISBN: 978-1-78242-476-5 (online), H. Griesser and L. Overend (Editors), Woodhead Publishing, Chapter 1, pp. 3-28 (2016). (专著章节)
7. **P. H. Li**, L. M. Li, W. H. Wang, W. H. Jin, X. M. Liu, K. W. K. Yeung, and P. K. Chu, “Enhanced Corrosion Resistance and Hemocompatibility of Biomedical NiTi Alloy by

- Atmospheric-Pressure Plasma Polymerized Fluorine-Rich Coating”, *Applied Surface Science*, 297: 109-115 (2014).
8. **P. H. Li**, X. M. Zhang, R. Z. Xu, W. H. Wang, X. M. Liu, K. W. K. Yeung, and P. K. Chu, “Electrochemically Deposited Chitosan/Ag Complex Coating on Biomedical NiTi Alloy for Antibacterial Application”, *Surface and Coatings Technology*, 232: 370-375 (2013).
 9. **P. H. Li**, R. Z. Xu, W. H. Wang, X. L. Li, Z. S. Xu, K. W. K. Yeung, and P. K. Chu, “Thermosensitive Poly(N-isopropylacrylamide-co-glycidyl methacrylate) Microgels for Controlled Drug Release”, *Colloids and Surfaces B: Biointerfaces*, 101: 251-255 (2013).
 10. **P. H. Li**, G. S. Wu, R. Z. Xu, W. H. Wang, S. L. Wu, K. W. K. Yeung, and P. K. Chu, “*In vitro* Corrosion Inhibition on Biomedical Shape Memory Alloy by Plasma-Polymerized Allylamine Film”, *Materials Letters*, 89: 51-54 (2012).
 11. **P. H. Li**, X. X. Hu, G. W. Song, P. K. Chu, Z. S. Xu, “Facile Preparation of Cationic P (St-BA-METAC) Copolymer Nanoparticles and the Investigation of Their Interaction with Bovine Serum Albumin”, *Journal of Applied Polymer Science*, 125(2): 864-869 (2012).
 12. **P. H. Li**, X. X. Hu, S. L. Wu, P. K. Chu, K. W. K. Yeung, and Z. S. Xu, “Cationic Lanthanide Luminescent Copolymer: Design, Synthesis and Interaction with DNA”, *Journal of Macromolecular Science, Part A: Pure and Applied Chemistry*, 48(10): 832-839 (2011).