

Xiangyang Shi

Professor

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Biography

Prof. Xiangyang Shi graduated with Ph.D. (organic chemistry, Institute of Photographic Chemistry, the Chinese Academy of Sciences, Beijing) in 1998. He worked as a Postdoctoral Fellow in Tsinghua University (1998-2000, Beijing) and Max-Planck Institute of Colloids and Interfaces (2000-2001, Potsdam, Germany). He then moved to California State University, Los Angeles (2001-2002) as a visiting scholar. From 2002-2008, he worked as a Research Fellow, Research Associate II, Research Investigator, and Research Assistant Professor at the University of Michigan, Ann Arbor. He then became a distinguished professor in Donghua University since 2008. Since 2010 he is also appointed as an “Invited Chair in Nanotechnology” at University of Madeira, Portugal. Prof. Shi has authored or coauthored 427 SCI-indexed peer-reviewed journal articles (h-index = 75) and 362 technical conference abstracts or proceeding papers, along with 17 invited book chapters and 102 approved China invention patents.

Research Interest

Development of organic/inorganic hybrid nanoplatfoms and microfluidic platforms for sensing, imaging, and theranostic applications, in particular for precision cancer imaging and therapy.

Recent Representative Publications

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- Wei Hu, Tingting Xiao, Du Li, Yu Fan, Lingxi Xing*, Xipeng Wang, Yulin Li*, **Xiangyang Shi***, Mingwu Shen*. Intelligent Molybdenum Disulfide Complexes as a Platform for Cooperative Imaging-Guided Tri-mode Chemo-Photothermo-Immunotherapy. *Adv. Sci.* **2021**, 8, 2100165.
 - Zhijuan Xiong, Yue Wang, Wei Zhu, Zhijun Ouyang, Yu Zhu, Mingwu Shen, Jindong Xia*, **Xiangyang Shi***. A Dual-Responsive Platform Based on Antifouling Dendrimer-CuS Nanohybrids for Enhanced Tumor Delivery and Combination Therapy. *Small Methods* **2021**, 5, 2100204
 - Tingting Xiao, Wei Hu, Yu Fan, Mingwu Shen, **Xiangyang Shi***. Macrophage-Mediated Tumor Homing of Hyaluronic Acid Nanogels Loaded

- with Polypyrrole and Anticancer Drug for Targeted Combinational Photothermo-Chemotherapy. *Theranostics* **2021**, 11(14), 7057-7071.
- Xin Li[#], Helin Li[#], Changchang Zhang, Andrij Pich^{*}, Lingxi Xing^{*}, and **Xiangyang Shi^{*}**. Intelligent nanogels with self-adaptive responsiveness for improved tumor drug delivery and augmented chemotherapy. *Bioact. Mater.* **2021**, 6, 3473-3484.
 - Yunchao Xiao[#], Yu Fan[#], Wenzhi Tu, Shiyi Lu, Yupei Ma, Yuesheng Ning, Yong Liu^{*}, and **Xiangyang Shi^{*}**. Multifunctional PLGA Microfibrous Rings Enable MR Imaging-Guided Tumor Chemotherapy and Metastasis Inhibition Through Prevention of Circulating Tumor Cell Shedding. *Nano Today* **2021**, 38, 101123.
 - Jin Li, Liang Chen, Xiaoying Xu, Yu Fan, Xue Xue, Mingwu Shen^{*}, **Xiangyang Shi^{*}**. Targeted Combination of Antioxidative and Anti-Inflammatory Therapy of Rheumatoid Arthritis Using Multifunctional Dendrimer-Entrapped Gold Nanoparticles as a Platform. *Small* **2020**, 16, 2005661.
 - Cong Song, Mingwu Shen, João Rodrigues, Serge Mignani, Jean-Pierre Majoral, **Xiangyang Shi^{*}**. Superstructured poly(amidoamine) dendrimer-based nanoconstructs as platforms for cancer nanomedicine: a concise review. *Coord. Chem. Rev.* **2020**, 421, 213463.
 - Jianzhi Zhu[#], Tingting Xiao[#], Yuxin Shi, Hailong Che, **Xiangyang Shi^{*}** and Jan C. M. Hest^{*}. Surface charge switchable nanoclusters for MRI-guided synergistic photodynamic therapy. *ACS Nano* **2020**, 14, 11225-11237.
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The official university webpage link: <https://pilab.dhu.edu.cn/bionanoeng/13165/list.htm>