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苏州大学功能纳米与软物质研究院

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学习工作经历：

- 2009 年起 苏州大学功能纳米与软物质研究院，教授，博士生导师
- 2008 年-2009 年 斯坦福大学化学系及医学院从事博士后研究
- 2004 年-2008 年 斯坦福大学获得化学博士学位
- 2000 年-2004 年 北京大学化学与分子工程学院获理学学士学位

主要学术成就：

近年来在生物材料与肿瘤纳米技术领域从事研究，围绕肿瘤诊疗中的若干挑战性问题，发展了一系列新型纳米探针用于体外生物检测与活体分子影像，并探索了多种基于纳米技术和生物材料的肿瘤光学治疗、放射治疗、与免疫治疗新策略。共发表学术论文 320 余篇，论文总引用超过 55,000 次，SCI H-index = 127。2014 年起连续入选爱斯维尔出版社 (Elsevier) 发布的“中国高被引用学者榜单 (材料科学)”；2015 年起连续入选美国科睿唯安 (原汤森路透集团) 公布的“全球高被引科学家名录” (Highly Cited Researchers) (化学、材料)。获国家杰出青年基金资助，担任生物材料领域国际著名期刊 Biomaterials 杂志副主编和多个国际主流期刊编委。

所获主要奖励：

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- 2020 年获第十六届中国青年科技奖
 - 2019 年获第七届中国化学会-英国皇家化学会青年化学奖
 - 2019 年获高等学校科学研究优秀成果奖（科学技术）青年科学奖
 - 2019 年入选“美国生物医学工程学会会士”(Fellow of American Institute for Medical and Biological Engineering)
 - 2018 年获江苏省十大青年科技之星
 - 2018 年被授予“江苏优秀归国留学人员”称号
 - 2018 年获 Nano Research Young Innovator Awards
 - 2018 年入选 Periodic Table of Younger Chemists-IUPAC
 - 2018 年入选教育部“长江学者”特聘教授
 - 2018 年入选中组部万人计划“中青年科技创新领军人才”
 - 2017 年获 Biomaterials Science Lectureship
 - 2017 年获江苏省科学技术一等奖
 - 2016 年入选江苏特聘教授
 - 2016 年入选科技部“中青年科技创新领军人才”
 - 2015 年获教育部自然科学二等奖
 - 2015 年获国家杰出青年基金资助
 - 2015 年受邀成为“英国皇家化学会会士”(Fellow of the Royal Society of Chemistry)
 - 2015 年入选中组部万人计划“青年拔尖人才”
 - 2014 年获“纳米化学新锐奖”
 - 2014 年获“霍英东青年教师奖”
 - 2014 年获“中国化学会青年化学奖”

- 2013 年获江苏省杰出青年基金资助
- 2013 年入选国家百千万人才工程
- 2013 年在新加坡 15th Asian Chemistry Congress 获'Asian Rising Stars'
- 2012 年获国家优秀青年基金资助
- 2012 年获 SCOPUS“寻找青年科学之星”银奖（材料类）
- 2011 年获国家人力资源和社会保障部“高层次留学人才回国”资助
- 2011 年入选江苏省“333 高层次人才培养计划”第二层次

国际学术期刊兼职：

- Associate Editor, Biomaterials (2014-)
- Editorial Board Member, Advanced NanoBiomed Research (2020-)
- Editorial Board Member, Drug Delivery and Translational Research (2019-)
- Editorial Board Member, Acta Chimica Sinica (2018-)
- Editorial Board Member, Particle & Particle Systems Characterization (2018-)
- Editorial Board Member, Advanced Healthcare Materials (2018-)
- Editorial Board Member, Science China Chemistry (2017-)
- Editorial Board Member, Frontiers in Chemistry (2017-)
- Editorial Board Member, Journal of Interdisciplinary Nanomedicine (2017-)
- Editorial Board Member, ChemMedChem (2017-)
- Editorial Board Member, Advanced Therapeutics (2017-)
- Editorial Board Member, Nano Research (2014-)
- Editorial Board Member, Scientific Reports (2013-)
- Editorial Board Member, American Journal of Nuclear Medicine and Molecular Imaging (2012-)
- Guest Editor, Nano Research (2018)
- Guest Editor, Nanoscale (2016)
- Guest Editor, Carbon (2015)
- Guest Editor, Advanced Healthcare Materials (2014)
- Guest Editor, Theranostics (2012)

论文列表：

代表性论文：

- [64] J. Xu, J. Lv, Q. Zhuang, Z.J. Yang, Z.Q. Cao, L.G. Xu, P. Pei, C.Y. Wang, H.F. Wu, Z.L. Dong, Y. Chao, C. Wang, K. Yang, R. Peng*, Y.Y. Cheng* and Z. Liu*. A general strategy towards personalized nanovaccines based on fluoropolymers for post-surgical cancer immunotherapy, *Nat. Nanotechnol.*, DOI: 10.1038/s41565-020-00781-4
- [63] Y. Yang, Z. Liu*. Chemiluminescent Nanosystems for Imaging Cancer Chemodynamic Therapy, *Chem*, 6, 9, 2127-2129 (2020)
- [62] M. C. Chen, Y.J. Tan, Z.L. Dong, J.Q. Lu, X. Han, Q.T. Jin, W.J. Zhu, J.J. Shen, L. Cheng, Z. Liu*, Q. Chen*. Injectable Anti-inflammatory Nanofiber Hydrogel to Achieve Systemic Immunotherapy Post Local Administration, *Nano Lett.*, 20, 9, 6763–6773 (2020)
- [61] X. Yi, H.L. Zhou, Y. Chao, S.S. Xiong, J. Zhong, Z.F. Chai, K. Yang*, and Z. Liu*. Bacteria-triggered tumor-specific thrombosis to enable potent photothermal immunotherapy of cancer, *Sci. Adv.*, 6(33): eaba3546 (2020)
- [60] R. Sun, X.C. Liu, G.Z. Li, H. Wang, Y.X. Luo, G.X. Huang, X.S. Wang, G.H. Zeng, Z. Liu*, S. Wu*. Photo-Activated H₂ Nanogenerator for Enhanced Chemotherapy of Bladder Cancer, *ACS Nano*, 14, 7, 8135-8148 (2020)
- [59] F. Gong, L. Cheng*, N.L. Yang, Y.H. Gong, Y.W. Ni, S. Bai, X.W. Wang, M.C. Chen, Q. Chen, Z. Liu*. Preparation of TiH_{1.924} nanodots by liquid-phase exfoliation for enhanced sonodynamic cancer therapy, *Nat. Commun.*, 11, 3712 (2020)
- [58] L.L. Sun, F.Y. Shen, J. Xu, X. Han, C.H. Fan, Z. Liu*. DNA-Edited Ligand Positioning on Red Blood Cells to Enable Optimized T Cell Activation for Adoptive Immunotherapy, *Angew. Chem. Int. Ed.*, 59, 2-14 (2020)
- [57] Y. Chao, C. Liang, H.Q. Tao, Y.R. Du, D. Wu, Z.L. Dong, Q.T. Jin, G.B. Chen, J. Xu, Z.S. Xiao, Q. Chen, C. Wang, J. Chen and Z. Liu*. Localized cock-tail chemo-immunotherapy after in situ gelation to trigger robust systemic antitumor immune responses, *Sci. Adv.*, 6(10), eaaz4204 (2020)
- [56] Z.L. Dong, L.Z. Feng*, Y. Hao, Q.G. Li, M.C. Chen, Z.J. Yang, H. Zhao, Z. Liu*. Synthesis of CaCO₃ based Nanomedicine for Enhanced Sonodynamic Therapy via Amplification of Tumor Oxidative Stress, *Chem.*, 6, 1391-1407 (2020)
- [55] G.Z. Li, S.P. Wang, D.S. Deng, Z.S. Xiao, Z.L. Dong, Z.P. Wang, Q.F. Lei, S. Gao, G.X. Huang, E.P. Zhang, G.H. Zeng, Z. Wen, S. Wu*, and Z. Liu*. Fluorinated Chitosan to Enhance Transmucosal Delivery of Sonosensitizer-Conjugated Catalase for Sonodynamic Bladder Cancer Treatment Post-intravesical Instillation, *ACS Nano*, 14, 2, 1586-1599 (2020)

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