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查正宝



姓名：查正宝

职称：教授

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所属系：生物医学科学系

邮箱：zbzha@hfut.edu.cn

电话：

个人学习工作经历

查正宝，合肥工业大学黄山青年学者，教授。2013年在哈尔滨工业大学获博士学位，曾荣获哈尔滨工业大学第十六届优秀论文（共19篇），2011年度教育部“博士研究生学术新人奖”获得者，师从国家杰出青年基金获得者、北京大学工学院戴捷教授。先后在美国亚利桑那大学和休斯顿理工公会研究所从事癌症等相关疾病的博士后研究。

近年来，针对肿瘤细胞异质性及信号通路补偿性激活特征，深入研究肿瘤细胞与正常细胞的代谢差异，构建一系列基于代谢及微环境响应的药物靶向递送系统及诊疗一体化制剂，为临床癌症早期诊断和治疗提供新思路。截止目前，已在Advanced Materials, Biomaterials, Chemical Communications, Nanoscale, ACS Applied Materials & Interfaces, Applied Physics Letters等期刊发表SCI论文32篇，其中以第一或通讯作者身份发表19篇，2篇获评“高被引论文”，论文被引总次数超过1100次。

学习工作经历：

2015.01~至今	合肥工业大学 生物与医学工程学院 黄山青年学者，教授
2013.10~2014.12	美国休斯顿理工公会医院研究所 纳米医药系 博士后
2009.11~2011.1	美国亚利桑那大学 航天机械工程系 访问学者
2009.9~2013.7	哈尔滨工业大学 生物医学工程 博士
2007.9~2009.7	哈尔滨工业大学 生物医学工程 硕士
2003.9~2007.7	哈尔滨工业大学 生物工程 学士

学术任职：中国化学会会员，抗癌协会纳米肿瘤专业委员会会员

主要研究领域与方向

- 1、基于肿瘤细胞代谢及微环境特征响应的药物制剂研究
- 2、多功能诊断治疗制剂的开发（重点结合临床超声，核磁共振）
- 3、新型靶向智能小分子抗癌药物的开发
- 4、仿生型可注射肿瘤治疗凝胶的开发

目前承担科研项目

- 1、多功能CuS纳米摇铃的构建及其在癌症诊治中的应用研究，81501590，青年科学基金项目，18万，主持，在研
- 2、多功能癌症诊疗一体化制剂的开发及医学应用研究（合肥工业大学春华计划，No. 2015HGCH0006），主持，已结题。
- 3、合肥工业大学黄山青年启动经费，30万，主持，在研

获奖情况

- 1、荣获哈尔滨工业大学第十六届优秀博士论文奖（共19篇），获得2011年教育部“博士研究生学术新人奖”；哈尔滨工业大学二届“优秀学生李昌奖”；获黑龙江省“优秀毕业生”等荣誉称号；
- 2、指导的研究生荣获2018年合肥工业大学研究生年度人物，2017年研究生十佳科技标兵，国家奖学金及优秀毕业生等荣誉

代表性研究成果

期刊论文

1. Yan Ma^(#), Xianwen Wang^(#), Huajian Chen, Zhaohua Miao^(*), Gang He, Junhong Zhou, and **Zhengbao Zha**: Polyacrylic Acid Functionalized Co_{0.85}Se Nanoparticles: An Ultrasmall pH-Responsive Nanocarrier for Synergistic Photothermal-Chemo Treatment of Cancer, *ACS Biomaterials Science & Engineering*, 2018, 4(2): 547-557.
2. Wannan Wang, Chenxi Huang, Chenyang Zhang, Mengli Zhao, Jun Zhang, Huajian Chen, **Zhengbao Zha**, Tingting

- (*) and Haisheng Qian (*), Controlled Synthesis of Upconverting Nanoparticles/Zn_xCd_{1-x}S Yolk-Shell Nanoparticle Efficient Photocatalysis Driven by NIR Light, *Applied Catalysis B: Environmental*, 2018, 224: 854-862.
3. Xianwen Wang (#), Fei Li (#), Xu Yan(#), Yan Ma (*), Zhaohua Miao, Liang Dong, Huajian Chen, Yang Lu (*) and **Zhengbao Zha** (*), Ambient Aqueous Synthesis of Ultrasmall Ni_{0.85}Se Nanoparticles for Noninvasive Photoacoustic Imaging and Combined Photothermal-Chemotherapy of Cancer, *ACS Applied Materials & Interfaces*, 2017, 9(48) 41782-41793.
4. Xianwen Wang, Zhaohua Miao, Yan Ma*, Huajian Chen, Haisheng Qian(*) and **Zhengbao Zha** (*), One-Pot Sol Synthesis of Shape-Controlled Copper Selenide Nanostructures and Their Potential Applications in Photocatalysis Photothermal Therapy, *Nanoscale*, 2017, 9: 14512-14519.
5. Huajian Chen, Yan Ma (*), Xianwen Wang, and **Zhengbao Zha** (*), Multifunctional Phase-Change Hollow Mesoporous Prussian Blue Nanoparticles as a NIR Light Responsive Drug Co-Delivery System to Overcome Cancer Therapeutic Resistance, *Journal of Materials Chemistry B*, 2017, 5: 7051-7058.
6. Chenxi Huang (#), Huajian Chen (#), Fei Li (#), Wannan Wang (#), Dongdong Li (#), Xianzhu Yang, Zhaohua Miao, **Zhengbao Zha** (*), Yang Lu (*), and Haisheng Qian (*), Controlled Synthesis of Upconverting Nanoparticles/CuS Shell Nanoparticles for *In Vitro* Synergistic Photothermal and Photodynamic Therapy of Cancer Cells, *Journal of Materials Chemistry B*, 2017, 5(48): 9487-9496. [触碰右侧展开](#)
7. Xianwen Wang, Yan Ma (*), Huajian Chen, Xiaoyi Wu (*), Haisheng Qian, Xianzhu Yang and **Zhengbao Zha** (*), Doxorubicin Loaded PEGylated Cuprous Telluride Nanocrystals for Combined Photothermal-Chemo Cancer Treatment, *Colloids and Surfaces B: Biointerfaces*, 2017, 152: 449-458.
8. Fu Zhang, Wannan Wang, Huaiping Cong, Linbao Luo, **Zhengbao Zha** (*) and Haisheng Qian (*), Facile Synthesis of Upconverting Nanoparticles/Zinc Oxide Core-Shell Nanostructures with Large Lattice Mismatch for Infrared Triggered Photocatalysis, *Particle & Particle Systems Characterization*, 2017, 34: 1600222.
9. Huajian Chen, Yan Ma, Xianwen Wang, Xiaoyi Wu (*) and **Zhengbao Zha** (*), Facile Synthesis of Prussian Blue Nanoparticles as pH-Responsive Drug Carriers for Combined Photothermal-Chemo Treatment of Cancer, *RSC Advances*, 2017, 34: 1600222.
10. **Zhengbao Zha**, Xiuli Yue (*), Qiushi Ren and Zhifei Dai (*), Uniform Polypyrrole Nanoparticles with High Photothermal Conversion Efficiency for Photothermal Ablation of Cancer cells, *Advanced Materials*, 2013, 25(5): 778-782.
11. **Zhengbao Zha**, Celine Cohn, Zhifei Dai (*), Weiguo Qiu, Jinhong Zhang and Xiaoyi Wu(*), Nanofibrous Lipid Membranes Capable of Functionally Immobilizing Antibodies and Capturing Specific Cells, *Advanced Materials*, 2013, 23(30): 3435-3440.
12. **Zhengbao Zha**, Jinrui Wang, Shuhai Zhang, Shumin Wang, Enze Qu, Youyi Zhang and Zhifei Dai(*), Engineering Perfluorooctylbromide Polypyrrole Nano-/Microcapsules for Simultaneous Contrast Enhanced Ultrasound Imaging and Photothermal Treatment of Cancer, *Biomaterials*, 2014, 35(1): 287-293.
13. **Zhengbao Zha**, Shuhai Zhang, Zijian Deng, Yanyan Li, Changhui Li and Zhifei Dai(*), Enzyme-Responsive Copper Sulphide Nanoparticles for Combined Photoacoustic Imaging, Tumor-Selective Chemotherapy and Photothermal Therapy, *Chemical Communications*, 2013, 49: 3455-3457.
14. **Zhengbao Zha**(#), Shumin Wang(#), Shuhai Zhang, Enze Qu, Hengte Ke, Jinrui Wang(*) and Zhifei Dai(*), Targeted Delivery of CuS Nanoparticles through Ultrasound Image-Guided Microbubble Destruction for Efficient Photothermal Therapy, *Nanoscale*, 2013, 5: 3216-3219.
15. **Zhengbao Zha**(#), Zijian Deng(#), Yanyan Li, Changhui Li(*), Jinrui Wang, Shumin Wang, Enze Qu and Zhifei Dai Biocompatible Polypyrrole Nanoparticles as a Novel Organic Photoacoustic Contrast Agent for Deep Tissue Imaging, *Nanoscale*, 2013, 5: 4462-4467.
16. **Zhengbao Zha**, Linan Jiang, Zhifei Dai and Xiaoyi Wu(*), A Biomimetic Mechanism for Antibody Immobilization on Lipid Nanofibers for Cell Capture, *Applied Physics Letters*, 2012, 101(19): 193701.
17. **Zhengbao Zha**, Siuling Leung, Zhifei Dai and Xiaoyi Wu(*), Centering of Organic-Inorganic Hybrid Liposomal Cerasomes in Electrospun Gelatin Nanofibers, *Applied Physics Letters*, 2012, 100(3): 033702.
18. **Zhengbao Zha**, Jinrui Wang, Enze Qu, Shuhai Zhang, Yushen Jin, Shumin Wang and Zhifei Dai(*), Polypyrrole Microspheres as Echogenic Photothermal Agent for Ultrasound Imaging Guided Tumor Ablation, *Scientific Reports*, 2013, 3: 2360.
19. **Zhengbao Zha**, Yan Ma, Xiuli Yue, Meng Liu and Zhifei Dai(*), Self-Assembled Hemocompatible Coating on Poly(vinyl chloride) Surface, *Applied Surface Science*, 2009, 256(3): 805-814.
20. **Zhengbao Zha**, Weibing Teng, Valerie Markle, Zhifei Dai(*) and Xiaoyi Wu(*), Fabrication of Gelation Nanofiber Scaffolds Using Ethanol/Phosphate Buffer Saline as a Benign Solvent, *Biopolymers*, 2012, 97(12): 1026-1036.
21. Shuhai Zhang, **Zhengbao Zha**, Xiuli Yue, Xiaolong Liang and Zhifei Dai(*), Gadolinium-chelates Functionalized Copper Sulphide as a Nanotheranostic Agent for MR Imaging and Photothermal Destruction of Cancer Cells, *Chemical Communications*, 2013, 49, 6776-6778.

22. Yan Ma, Zhifei Dai^(*), **Zhengbao Zha**, Yanguang Gao and Xiuli Yue, Selective Antileukemia Effect of Stabilized Nanohybrid Vesicles Based on Cholesteryl Succinyl Silane, *Biomaterials*, 2011, 32(35): 9300-9307.
23. Yushen Jin, Yanyan Li, Xibo Ma, **Zhengbao Zha**, Liangliang Shi, Jie Tian and Zhifei Dai^(*), Encapsulating Tantalum Oxide into Polypyrrole Nanoparticles for X-ray CT/Photoacoustic Bimodal Imaging-Guided Photothermal Ablation of Cancer, *Biomaterials*, 2014, 35(22): 5795-5804.
24. Siuling Leung, **Zhengbao Zha**, Weibing Teng, Celine Cohn, Zhifei Dai^(*) and Xiaoyi Wu^(*), Organic-Inorganic Nanovesicles for Doxorubicin Storage and Release, *Soft Matter*, 2012, 8(21): 5756-5764.
25. Siu Ling Leung, **Zhengbao Zha**, Celine Cohn, Zhifei Dai, Xiaoyi Wu^(*), Anti-EGFR Antibody Conjugated Organic-Inorganic Hybrid Lipid Nanovesicles Selectively Target Tumor Cells, *Colloids and Surfaces B: Biointerfaces*, 2014, 141-149.
26. Celine Cohn, Siuling Leung, **Zhengbao Zha**, Jessica Crosby, Weibing Teng and Xiaoyi Wu^(*), Comparative Study of Antibody Immobilization Mediated by Lipid and Polymer Fibers, *Colloids and Surfaces B: Biointerfaces*, 2015, 131-139.
27. Yan Ma, Zhifei Dai^(*), Yanguang Gao, Zhong Cao, **Zhengbao Zha**, Xiuli Yue and Jun-Ichi Kikuchi, Liposomal Architecture Boosts Biocompatibility of Nanohybrid Cerasomes, *Nanotoxicology*, 2011, 5: 622-635.
28. Jinhong Zhang^(*), Celine Cohn, Weiguo Qiu, **Zhengbao Zha**, Zhifei Dai and Xiaoyi Wu^(*), Atomic Force Microscopy Characterization of Electrospun Organic-Inorganic Lipid Nanofibers, *Applied Physics Letters*, 2011, 99(10): 103702. [触控右侧展开](#)
29. Yan Ma, Meng Liu, Xiuli Yue, **Zhengbao Zha**, Zhifei Dai^(*), Improved Biocompatibility of Thrombo-resistant Iron Polysaccharides Multilayer Coatings on Nitinol, *International Journal of Biological Macromolecules*, 2010, 46 (1): 114.
30. Meng Liu, Xiuli Yue, Zhifei Dai^(*), Yan Ma, Lei Xing, **Zhengbao Zha**, Shaoqin Liu, Yu Li, Novel Thrombo-Resistant Coating Based on Iron-Polysaccharide Complex Multilayers, *ACS Applied Materials & Interfaces*, 2009, 1 (1), 11-16.
31. Celine Cohn, Siuling Leung, Jessica Crosby, Barbara Lafuente, **Zhengbao Zha**, Weibing Teng^(*), Robert Downs and Xiaoyi Wu, Lipid-Mediated Protein Functionalization of Electrospun Polycaprolactone Fibers, *Express Polymer Letters*, 2016, 10: 430-437.
32. Meng Liu, Xiuli Yue, Shen Dong, Yan Ma, **Zhengbao Zha**, Zhifei Dai^(*), Nanocoating of Diazoresin/Polysaccharide Multilayer Boosts Biocompatibility of Nitinol Biomedical Devices, *Current Nanoscience*, 2011, 7, 856-865.

会议

1. **Zhengbao Zha**. Development of Multifunctional Theranostic Agents for Cancer Treatment. The 2nd Ling-Nan International Conference on Pharmaceutical Sciences, December 1-3, 2017, Guangzhou, China. (邀请报告)
2. **Zhengbao Zha**. Ambient Aqueous Synthesis of Ultrasmall Ni_{0.85}Se Nanoparticles for Non-Invasive Photoacoustic Imaging and Combined Photothermal-Chemo Therapy of Cancer. 2017 International Conference on Molecular Imaging and Minimally Invasive Therapy (MIMIT) & International Seminar on Musculoskeletal Ultrasound (IMUS), November 15, 2017, Beijing, China. (邀请报告)
3. **Zhengbao Zha**. Echogenic Polypyrrole Microspheres for Ultrasound Imaging Guided Photothermal Treatment of Cancer Cells. 2016 Westlake International Forum on Ultrasound in Medicine and Biology, November 9-13, 2016, Hangzhou, China. (邀请报告)
4. **Zhengbao Zha**. Gram-Scale Synthesis of Prussian Blue Nanoparticles as Hydrophobic Drug Carrier for Photothermal-Chemo Combination Treatment of Cancer. The 2nd International Conference on Nanomedicine, China, October 18-20, 2016, Wuhan, China. (墙报)
5. **Zhengbao Zha**. Concise Copper Sulphide Nanoparticles for Combined Photoacoustic Imaging, Enzyme-Responsive Drug Release and Photothermal Therapy. ChinaNANO 2013, September 5-7, 2013, Beijing, China. (墙报)
6. **Zhengbao Zha**. Organic Polypyrrole Nanoparticles: A Theranostic Agent for Combined Photoacoustic Imaging and Photothermal Ablation of Cancer Cells. 8th Sino-US Nano Forum, June 29-30, 2013, Hangzhou, China. (墙报)
7. **Zhengbao Zha**. Electrospun Cholesterol Nanofibrous Membranes Capable of Functionally Immobilizing Antibodies for Cell Capture. 9th World Biomaterials Congress, June 1-5, 2012, Chengdu, China. (口头报告)
8. **Zhengbao Zha**. Preparation of Hemocompatible Coating and Fuzzy Mathematics Evaluation. *CIMNE-2009 Chinese International Micronano New Technology Forum*, April 1-3, 2009, Shanghai, China. (口头报告)

专利

1. **查正宝**, 陈华健, 马艳, 王咸文, 周俊红, 贺港, 基于空心普鲁士蓝的热刺激响应型药物释放纳米载体及其制备方法, 中国专利, 201710376986.6, 申请日: 2017-05-25
2. **查正宝**, 王咸文, 马艳, 陈华健, 贺港, 周俊红, 一种Ni_{0.85}Se纳米材料及其制备方法和应用, 中国专利, 2017101041, 申请日: 2017-02-24
3. **查正宝**, 王咸文, 马艳, 陈华健, 用于肿瘤光热治疗的铜的硒属化合物纳米片的可控制备方法, 中国专利, 2017101031, 申请日: 2017-02-24
4. **查正宝**, 王咸文, 陈华健, 一种热化疗用碲化铜纳米复合药物颗粒及其构建方法, 中国专利, 201610502862.3, 申请日: 2016-06-29
5. 戴志飞, **查正宝**, 王金锐, 曲恩泽, 一种基于聚吡咯复合物的治疗诊断制剂及其制备方法, 中国授权专利, 公开号: 201610502862.3

104117074B, 公开日: 2016-09-28

6. 戴志飞, **查正宝**, 梁晓龙, 王金锐, 李长辉, 邓梓建, 李妍妍, 王淑敏, 聚吡咯纳米粒子作为光声成像造影剂的新用途, 利, 20131010120111.1, 申请日: 2013-04-08

其他情况

欢迎对科研有着浓厚的兴趣、勤奋踏实、有良好的团队协作精神的有志青年学生加入本研究小组!

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