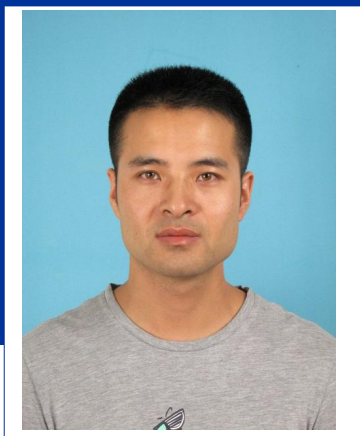


药学院（葡萄酒学院）教师个人情况登记表



张桂龙

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个人简介:

张桂龙，男，教授，硕士生导师，2019年荣获“泰山学者青年专家”称号。主要从事磁共振纳米诊疗剂对肿瘤早期诊断与靶向治疗等研究工作。目前，主持安徽省自然科学基金面上项目1项，国家重点研发计划子课题1项，安徽省省级环保课题1项。在 *Adv. Funct. Mater.*, *ACS Nano*, *Biomaterials*, *Chem. Eng. J.*, *ACS Appl. Mater. Interfaces*, *Nanoscale* 等国际权威期刊发表SCI论文50余篇。申请专利16项，其中授权7项，成功转化2项。

学习经历:

2011年9月至2016年11月, 中国科学技术大学, 材料物理与化学专业, 博士研究生

2007年9月至2011年7月, 东北林业大学, 化学专业, 本科

工作经历:

2019年6月至今, 滨州医学院, 药物化学专业, 教授

2016年11月至2019年5月, 中国科学院合肥物质科学研究院, 生物物理专业, 助理研究员

主讲课程:

1、《基因的诊断与治疗》(研究生 选修课)

研究方向:

1.肿瘤微环境响应的新型磁共振纳米造影开关的研究

2.肿瘤微环境响应的诊疗一体化体系的开发

科研项目:

1、主持国家重点研发计划(子课题) -- “低毒安全高效药、械与稻麦主要病虫害绿色高效防控技术集成”(No.2018YFD0300903-4, 2018.7-2020.7)

2、主持安徽省自然科学基金面上项目-- “钆掺杂氧化铁纳米簇提高宫颈癌磁共振造影和治疗效果的机理研究”(No.1808085MB38, 2018.7-2021.6)

3、主持安徽省省级环保项目-- “安徽省污染耕地安全利用技术与示范”(No.2017-04, 2017.10-2019.9)

4、主持企业委托研发项目 -- “靶向药物载体与新型造影剂”

(No.2018340022002395, 2018.5.1-2020.4.30)

代表性论文及专利:

1. **Zhang, Guilong #** ; Du, Ruohong # ; Zhang, Lele # ; Cai, Dongqing; Sun, Xiao; Zhou, Yong; Zhou, Jian; Qian, Junchao; Zhong, Kai; Zheng, Kang; Kaigler, Darnell; Liu, Wenqing; Zhang, Xin; Zou, Duohong; Wu, Zhengyan. Gadolinium-Doped Iron Oxide Nanoprobe as Multifunctional Bioimaging Agent and Drug Delivery System. *Advanced Functional Materials*, **2015**, 25, 6101-6111. (IF: 15.621, 中科院一区)

2. **Zhang, Guilong #** ; Gao, Junlan # ; Qian, Junchao; Zhang, Lele; Zheng, Kang; Zhong, Kai; Cai, Dongqing; Zhang, Xin; Wu, Zhengyan. Hydroxylated Mesoporous Nanosilica Coated by Polyethylenimine Coupled with Gadolinium and Folic Acid: A Tumor-Targeted T₁ Magnetic Resonance Contrast Agent and Drug Delivery System. *ACS Applied Materials & Interfaces* **2015**, 7, 14192-14200. (IF: 8.456, 中科院一区)

3. **Zhang, Guilong #** ; Lu, Shiyao # ; Qian, Junchao; Zhong, Kai; Yao, Jianming; Cai, Dongqing; Cheng, Zhiliang; Wu, Zhengyan. Magnetic Relaxation Switch Detecting Boric Acid or Borate Ester through One-Pot Synthesized Poly(vinylalcohol) Functionalized Nanomagnetic Iron Oxide. *ACS Applied Materials & Interfaces* **2015**, 7, 16837-16841. (IF: 8.456, 中科院一区)

4. **Zhang, Guilong #** ; Yang, Minglei # ; Cai, Dongqing; Zheng, Kang; Zhang, Xin; Wu, Lifang; Wu, Zhengyan. Composite of Functional Mesoporous Silica and DNA: An Enzyme-Responsive Controlled Release Drug Carrier System. *ACS Applied Materials & Interfaces*, **2014**, 6, 8042-8047. (IF: 8.456, 中科院一区)

5. **Zhang, Guilong #** ; Du, Ruohong # ; Qian, Junchao; Zheng, Xiaojia; Tian, Xiaohe; Cai, Dongqing; He, Jiakai; Wu, Yiqun; Huang, Wei; Wang, Yuanyin; Zhang, Xin; Zhong, Kai; Zou, Duohong; Wu, Zhengyan. A tailored nanosheet decorated with a metallized dendrimer for angiography and magnetic resonance imaging-guided combined chemotherapy. *Nanoscale*, **2018**,

10, 488-498. (IF:6.970, 中科院一区)

6. **Zhang, Guilong**; Zhou, Linglin; Cai, Dongqing; Wu, Zhengyan. Anion-responsive carbon nanosystem for controlling selenium fertilizer release and improving selenium utilization efficiency in vegetables. *Carbon*, **2018**, *129*, 711-719. (IF:7.466, 中科院一区)

7. **Zhang, Guilong**; Gao, Junlan; Qian, Junchao; Cai, Dongqing; Zheng, Kang; Yu, Zhiwu; Wang, Junfeng; Zhong, Kai; Zhang, Xin; Wu, Zhengyan. A Multifunctional Magnetic Composite Material as a Drug Delivery System and a Magnetic Resonance Contrast Agent. *Particle & Particle Systems Characterization* **2014**, *31*, 976-984. (IF: 4.194, 中科院二区)

8. **Zhang, Guilong #** ; Cai, Dongqing # ; Min Wang; Zhang, Caili; Zhang, Jing; Wu, Zhengyan. Microstructural Modification of Diatomite by Acid Treatment, High-speed Shear, and Ultrasound. *Microporous and Mesoporous Materials* **2013**, *165*, 106-112. (IF:4.182, 中科院二区)

9. Xiao, Jianmin # ; **Zhang, Guilong #** ; Xu, Rui; Chen, Hui; Wang, Huijuan; Tian, Geng; Wang, Bin; Zhang, Zhiyuan; Yang, Hongyi; Zhong, Kai; Zou, Duohong; Wu, Zhengyan. A pH-responsive platform combining chemodynamic therapy with limotherapy for simultaneous bioimaging and synergistic cancer therapy. *Biomaterials*, **2019**, *216*, 119254. (IF:10.273, 中科院一区)

10. Sun, Xiao # ; **Zhang, Guilong #** ; Du, Ruohong; Xu, Rui; Zhu, Dongwang; Qian, Junchao; Bai, Guo; Yang, Chi; Zhang, Zhiyuan; Zhang, Xin; Zou, Duohong; Wu, Zhengyan. A biodegradable MnSiO₃@Fe₃O₄ nanoplatform for dual-mode magnetic resonance imaging guided combinatorial cancer therapy. *Biomaterials*, **2019**, *194*, 151-160. (IF:10.273, 中科院一区)

11. Dan Wang # , Haiyan Lin # , **Guilong Zhang #** , Yuanchun Si, et al. Effective pH-Activated Theranostic Platform for Synchronous Magnetic Resonance Imaging Diagnosis and Chemotherapy. *ACS Applied Materials & Interfaces*, **2018**, *10*, 31114-31123. (IF:8.456, 中科院一区)

12. Xiao, Jianmin # ; **Zhang, Guilong #** ; Qian, Junchao; Sun, Xiao; Tian, Jie; Zhong, Kai; Cai, Dongqing; Wu, Zhengyan. Fabricating High-Performance T₂-Weighted Contrast Agents via Adjusting Composition and Size of Nanomagnetic Iron Oxide. *ACS Applied Materials &*

Interfaces, **2018**, 10, 7003-7011. (IF:8.456, 中科院一区)

13. Si, Yuanchun # ; **Zhang, Guilong #** ; Wang, Dan; Zhang, Cheng; Yang, Chi; Bai, Guo; Qian, Junchao; Chen, Qiaoer; Wu, Zhengyan; Xu, Yunsheng; Zou, Duohong. Nanostructure-enhanced water interaction to increase the dual-mode MR contrast performance of gadolinium-doped iron oxide nanoclusters. *Chemical Engineering Journal*, **2019**, 360, 289-298. (IF:8.355, 中科院一区)

14. Xiang, Yubin # ; **Zhang, Guilong #** ; Chen, Chaowen; Liu, Bin; Cai, Dongqing; Wu, Zhengyan. Fabrication of a pH-Responsively Controlled-Release Pesticide Using an Attapulgite-Based Hydrogel. *ACS Sustainable Chemistry & Engineering*, **2018**, 6, 1192-1201. (IF:6.970, 中科院二区)

15. Sun, Xiao # ; **Zhang, Guilong #** ; Wu, Zhengyan. Nanostructures for pH-sensitive Drug Delivery and Magnetic Resonance Contrast Enhancement Systems. *Current Medicinal Chemistry*, **2018**, 25, 3036-3057. (IF:3.894, 中科院二区)

16. Sun, Xiao; Cai, Chuanjie; Wang, Qian; Cai, Dongqing; Qian, Junchao; Chi, Yu; Zheng, Kang; Zhang, Xin; **Zhang, Guilong***; Zhong, Kai*; Wu, Zhengyan*. A polyethylenimine functionalized porous/hollow nanoworm as a drug delivery system and a bioimaging agent. *Physical Chemistry Chemical Physics*, **2016**, 18, 7820-7828. (IF: 3.567, 中科院二区)

荣誉获奖:

1. 荣获中国科学技术大学优秀博士论文 (2017 年)
2. 荣获中国科学院院长优秀奖 (2016 年)
3. 荣获中国科学元保罗生物科技冠名奖 (2014 年)

社会兼职:

1. 中国生物材料学会会员