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师资队伍

副教授、副研究员、高级工程师

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职称：副教授，特聘副研究员，硕士生导师



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学术硕士: 软物质科学与工程

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教育背景

2016/07 – 2018/07 暨南大学, 生命科学技术学院, 博士后

2010/09 – 2016/07 暨南大学, 生命科学技术学院, 博士

2006/09 – 2010/07 周口师范学院, 化学化工学院, 学士

科研工作经历

2018/03 - 至今 华南理工大学, 华南软物质科学与技术高等研究院, 王林格教授团队, 特聘副研究员。

研究方向: 功能高分子材料的制备及其在生物医药领域的应用。

2016/07 - 2018/07 暨南大学, 生命科学技术学院, 博士后, 导师: 欧阳健明教授。

研究方向: 新型功能纳米材料在多模态生物成像与疾病联合治疗中的应用。

2013/09 - 2016/07 暨南大学, 生命科学技术学院, 博士, 导师: 刘杰教授。

研究方向: 无机纳米基因载体的构建及其生物学机制研究。

2010/09 - 2013/06 暨南大学, 化学与材料学院, 硕士, 导师: 刘杰教授。

研究方向: 钌配合物抗肿瘤机制及其作为识别肿瘤细胞荧光探针的应用研究。

获奖荣誉

2016年 暨南大学优秀博士学位论文

2015年 “博士研究生国家奖学金”

2014年 暨南大学优秀博士生攀登计划奖励

2014年 “博士研究生国家奖学金”

2012年 “硕士研究生国家奖学金”

教学与科研情况

研究方向：功能高分子材料的制备及其在生物医药领域的应用。包括高分子纤维材料、高分子囊泡的合成、性能调控、及功能化修饰，研究其在多模态生物影像、药物输送和疾病诊疗等方面的应用。

主要业绩: 至今在Adv. Funct. Mater, Biomaterials, Nanoscale等国际著名期刊上发表论文27篇，其中第一作者/通讯作者论文8篇；授权专利2项。

发表文章列表

1. Yanan Liu, Litao Ma, Hui Zhou, Qianqian Yu, Xu Chen, Yingyu Zhao, Jie Liu*, Polypeptide nano-Se targeting inflammation and theranostic rheumatoid arthritis by anti-angiogenic and NO activating AMPK α signaling pathway. *J. Med. Chem. B*, 2018, 6, 3497-3514.
2. Qianqian Yu, Jing Sun, Jianming Ouyang* and Jie Liu*, Mesoporous titanium dioxide nanocarrier with magnetic-targeting and high loading efficiency for dual-modal imaging and photodynamic therapy. *J. Med. Chem. B*, 2017, 5, 6081-6096.
3. Shuang Zhao#, Qianqian Yu#, Jiali Pan, Yanhui Zhou, Chengwen Cao, Jianming Ouyang*, Jie Liu*, Redox-responsive mesoporous selenium delivery of doxorubicin targets MCF-7 cells and synergistically enhances its anti-tumor activity. *Acta. Biomater*, 2017, 54, 294–306.
4. Dongdong Sun, Weiwei Zhang, Qianqian Yu, Xu Chen, Meng Xu, Yanhui Zhou, Jie Liu*, Chiral penicillamine-modified selenium nanoparticles enantioselectively inhibit metal-induced amyloid β aggregation for treating alzheimer's disease. *J. Colloid. Interf. Sci*, 2017, 505, 1001-1010.

5. Gengjia Chen, Meng Xu, Shuang Zhao, Qianqian Yu, Jie Liu*, A pompon-like RuNPs-based theranostic nanocarrier system with stable photoacoustic imaging characteristic for accurate tumor detection and efficient phototherapy guidance. *ACS. App. Mater. Inter*, 2017, 9, 33645-33657.
6. Shuang Zhao, Mengmeng Xu, Chengwen Cao, Qianqian Yu, Yanhui Zhou, Jie Liu*, A redox-responsive strategy using mesoporous silica nanoparticles for co-delivery of siRNA and doxorubicin. *J. Med. Chem. B*, 2017, 5, 6908-6919.
7. Shuang Zhao, Litao Ma, Chengwen Cao, Qianqian Yu, Lanmei Chen, Jie, Liu*, Curcumin-loaded redox response of self-assembled micelles for enhanced antitumor and anti-inflammation efficacy. *Int. J. Nanomed*, 2017, 12, 2489-2504.
8. Yanhui Zhou, Qianqian Yu, Xiuying Qin, Jie Liu*, Improving the anticancer efficacy of laminin receptor-specific therapeutic ruthenium nanoparticles (RuBB-loaded EGCG-RuNPs) via ROS-dependent apoptosis in SMMC-7721 cells. *ACS. App. Mater. Inter*, 2016, 8, 15000-15012.
9. Xiaoquan Huang, Xu Chen, Qingchang Chen, Qianqian Yu, Jie Liu*, Investigation of functional selenium nanoparticles as potent antimicrobial agents against superbugs. *Acta Biomater*, 2016, 30, 397-407.
10. Qingchang Chen#, Qianqian Yu#, Yanan Liu, Jie Liu*, Multifunctional selenium nanoparticles: chiral selectivity of delivering 2 MDR-siRNA for reversal of multidrug resistance and real-time biofluorescence imaging. *Nanomed. Nanotechnol*, 2015, 11, 1773-1784.
11. Wenjing Zheng, Chengwen Cao, Yanan Liu, Qianqian Yu, Chengwen Cao, Chuping Zheng, Dongdong Sun, Jie Liu*, Multifunctional polyamidoamine (PAMAM) modified selenium nanoparticles dual-delivering siRNA and cisplatin to A549/DDP cells for reversal multidrug resistance. *Acta Biomater*, 2015, 11, 368-380.
12. Dongdong Sun, Yanan Liu, Qianqian Yu, Du Liu, Yanhui Zhou, Jie Liu*, Selective nuclei accumulation of ruthenium(II) complex enantiomers that target G-quadruplex DNA. *J. Inorg. Biochem*, 2015, 150, 90-99.
13. Xianbo Zhou, Chengwen Cao, Qingchang Chen, Qianqian Yu, Yanan Liu, Tiantian Yin and Jie Liu*, PEG modified graphene oxide loaded with EALYLV peptides for inhibiting the aggregation of hIAPP associated with type-2 diabetes. *J. Mater. Chem. B*, 2015, 3, 7055-7067.
14. Qianqian Yu, Yanan Liu, Chengwen Cao, and Jie Liu*, The use of pH-sensitive functional selenium nanoparticles shows enhanced in vivo VEGF-siRNA silencing and fluorescence imaging, *Nanoscale*, 2014, 6, 9279-9290.
15. Qianqian Yu, Yanan Liu, Lei Xu, Chuping Zheng, Fangling Le, Xiuying Qin, Yanyu Liu, and Jie Liu*, Ruthenium(II) polypyridyl complexes: cellular uptake, cell image and apoptosis of HeLa cancer cells induced by double targets. *Eur. J. Med. Chem*, 2014, 82, 82-95.
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- 18.Jingnan Zhang, Xianbo Zhou, Qianqian Yu, Licong Yang, Dongdong Sun, Yanhui Zhou, Jie Liu*, Epigallocatechin-3-gallate (EGCG)-stabilized Selenium nanoparticles coated with Tet-1 peptide to reduce amyloid- β aggregation and cytotoxicity. *ACS. Appl. Mater. Inter.*, 2014, 6, 8475-8487.
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- 20.Dongdong Sun, Yanan Liu, Qianqian Yu, Xiuying Qin, Jie Liu*, Inhibition of tumor growth and vasculature and fluorescence imaging using functionalized ruthenium-thiol protected selenium nanoparticles. *Biomaterials*, 2014, 35, 1572-1583.
- 21.Licong Yang, Jingnan Zhang, Chuan Wang, Xiuying Qin, Qianqian Yu, Yanhui Zhou, Jie Liu*, Interaction between 8-hydroxyquinoline ruthenium(II) complexes and basic fibroblast growth factors (bFGF): inhibiting angiogenesis and tumor growth through erk and akt signaling pathways. *Metallomics*, 2014, 6, 518-531.
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- 24.Dongdong Sun, Yanan Liu, Qianqian Yu, Yanhui Zhou, Rong Zhang, Xiaojia Chen, An Hong* and Jie Liu*, The effects of luminescent ruthenium(II) polypyridyl functionalized selenium nanoparticles on bFGF-induced angiogenesis and AKT/ERK signaling. *Biomaterials*, 2013, 34, 171-180.
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- 26.Qianqian Yu, Yanan Liu, Chuan Wang, Dongdong Sun, Xingcheng Yang, Yanyu Liu, and Jie Liu*, Chiral ruthenium(II) polypyridyl complexes: stabilization of G-quadruplex DNA, inhibition of telomerase activity and cellular uptake. *PLOS ONE*, 2012, 7, e50902.
- 27.Yanyu Liu, Qianqian Yu, Chuan Wang, Dongdong Sun, Yongchao Huang, Yanhui Zhou, Jie Liu*, Ruthenium (II) complexes binding to human serum albumin and inducing apoptosis of tumor cells. *Inorg. Chem. Comm.*, 2012, 24, 104-109.

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