Resume of Qi YU

Basic Information



School : Gender: Date of Birth: Title: Education: Tutor: Interest of research:

School of Life and Health Sciences Female 199011 Associate Professor Doctor of Philosophy Doctor degree & Master degree Smart nanodrug delivery, Photoluminescence imaging, Cancer therapy

Academic Background

From September 2008 to July 2012, Jiangxi Normal University, Bachelor's degree in Chemistry;

From September 2012 to July 2017, Nanjing University of Posts and Telecommunications, Ph.D in Organic electronics;

From June 2018 to June 2020, Nanjing University of Posts and Telecommunications, Postdoctoral program in Information Materials.

Oversea visiting

2019/3-2020/07, Postdoctoral program in Biomaterials, Singapore University of technology and design, Singapore;

Enrollment Information

1. Enrollment Discipline: Pharmacy, Chemistry, Biology and Medicine, Light Industry Technology and Engineering, Material science and engineering

- 2. Research direction: Smart nanodrug delivery, Photoluminescence imaging, Cancer therapy
- 3. Enrollment Year: Annually

Representative Projects

1. National Natural Science Foundation of China (Grant No. 61805122, principal investigator)

2. National "111" plan (Grant No. XBTK-2021012, principal investigator)

3. China Postdoctoral Science Foundation (Grant No. 2018M642285, principal investigator)

4. Key Laboratory of Fermentation Engineering, Ministry of Education (Grant No. 202105FE06, principal investigator)

5. Research Foundation of Hubei University of Technology (Grant No. GCCCT20220010, principal investigator)

6. the Open Project Funding of Hubei Province Key Laboratory of Occupational Hazard Identification and Control (Grant No. OHIC2021G02, principal investigator)

Representative Articles

(1) **Qi Yu***, Qiangwang Li, Le Tu, Yujing Zhou, Hongda Zhu, Qin Zhang, Mingxing Liu, Yao Sun*, Calcium Sulfide Based Nanoreservoirs Elicit Dual Pyroptosis Pathways for Enhanced Anti-Tumor Immunity, *Chemical Engineering Journal*, **2023**, *477*, 147085.

(2) Ri Ruan, **Qi Yu***, Junrong Li*, Aggregation enhanced fluorescence and Raman signals for highly sensitive cancer detection, *Methods*, **2023**, *216*, 11-20.

(3) **Qi Yu***, Le Tu, Ting Zhu, Shujuan Liu, Yao Sun*, Qiang Zhao*, HypoxiaActivatable Nanovesicles as In Situ Bombers for Combined Hydrogen-SulfideMediated Respiration Inhibition and Photothermal Therapy, *ACS Applied Materials & Interfaces*, **2022**, *14*, 50637-50648.

(4) Huocheng Yang, Le Tu, Jie Li, Suya Bai, Zongxing Hu, Peng Yin, Huiyu Lin, **Qi Yu***, Hongda Zhu, Yao Sun*, Deep and precise lighting-up/combat diseases through sonodynamic agents integrating molecular imaging and therapy modalities, *Coordination Chemistry Reviews*, **2022**, *453*, 214333.

(5) **Qi Yu**, Tianci Huang, Chao Liu, Menglong Zhao, Mingjuan Xie, Guo Li, Shujuan Liu, Wei Huang, Qiang Zhao, Oxygen self-sufficient NIR-activatable liposomes for tumor hypoxia regulation and photodynamic therapy, *Chemical Science*, **2019**, *10*, 9091-9098.

(6) Kenneth Yin Zhang, **Qi Yu (equal contribution)**, Huanjie Wei, Shujuan Liu, Qiang Zhao*, Wei Huang*, Long-Lived Emissive Probes for Time-Resolved Photoluminescence Bioimaging and Biosensing, *Chemical Reviews*, **2018**, *118*, 1770-1839.

(7) Tianci Huang, Qi Yu (equal contribution), Shujuan Liu, Wei Huang, Qiang Zhao*,

Phosphorescent iridium(III) complexes: a versatile tool for biosensing and photodynamic therapy, *Dalton Transactions*, **2018**, *47*, 7628-7633.

(8) **Qi Yu**, Pengli Gao, Kenneth Yin Zhang, Xiao Tong, Huiran Yang, Shujuan Liu*, Jing Du, Qiang Zhao*, Wei Huang*, Luminescent Gold Nanocluster-Based Sensing Platform for Accurate H2S Detection in Vitro and in Vivo with Improved Anti-Interference Ability, *Light Science & Applications*, **2017**, *6*, e17107.

(9) **Qi Yu**, Pengli Gao, Kenneth Yin Zhang, Xiao Tong, Huiran Yang, Shujuan Liu, Wei Huang*, Jing Du, Qiang Zhao*, Rational design of luminescent nanoprobe for hypoxia imaging in vivo via ratiometric and photoluminescence lifetime imaging microscopy, *Chemical Communications*, **2017**, *53*, 4144-4147.

(10)**Qi Yu**, Kenneth Yin Zhang, Hua Liang, Qiang Zhao*, Tianshe Yang, Shujuan Liu, Chuanqi Zhang, Zhengjian Shi, Wenjuan Xu, Wei Huang*, Dual-Emissive Nanohybrid for Ratiometric Luminescence and Lifetime Imaging of Intracellular Hydrogen Sulfide, *ACS Applied Materials & Interfaces*, **2015**, *7*, 5462-5470.

(11)Yipeng Li, **Qi Yu (equal contribution)**, Pengli Gao, Huiran Yang, Tianci Huang, Shujuan Liu, Qiang Zhao, Highly efficient organic photosensitizer with aggregation-induced emission for imaging-guided photodynamic ablation of cancer cells, *Tetrahedron Letters*, **2018**, *59*, 2704-2707.

(12)Tianci Huang, Xiao Tong, **Qi Yu**, Huiran Yang, Song Guo, Shujuan Liu*, Qiang Zhao*, Kenneth Yin Zhang, Wei Huang*, A series of iridophosphors with tunable excited states for hypoxia monitoring via time-resolved luminescence microscopy, *Journal of Materials Chemistry C*, **2016**, *4*, 10638-10645.

(13) Lin Zhu, Xiao Tang, **Qi Yu**, Wen Lv, Yizhi Li, Hong Yan*, Qiang Zhao*, Wei Huang*, Tuning Optical Properties of Iridium(III) Complexes by Carborane and Anion, *Chemistry-A European Journal*, **2015**, *21*, 4721-4730.

(14) Chao Shi, Deshuang Tu, **Qi Yu**, Hua Liang, Yahong Liu, Zhihong Li, Hong Yan*, Qiang Zhao*, Wei Huang*, Carborane Tuning Phosphorescence of Iridium Tetrazolate Complexes, *Chemistry-A European Journal*, **2014**, *20*, 16550-16557.

(15) Wen Lv, Tianshe Yang, Qi Yu, Qiang Zhao*, Kenneth Yin Zhang, Hua Liang, Shujuan Liu, Fuyou Li*, Wei Huang*, A Phosphorescent Iridium(III) ComplexModified Nanoprobe for Hypoxia Bioimaging via Time-Resolved Luminescence Microscopy, *Advanced Science*, **2015**, *2*, 1500107.

(16) Song Guo, Yun Ma, Shujuan Liu, **Qi Yu**, Aqiang Xu, Jianmei Han, Liuwei Wei, Qiang Zhao*, Wei Huang*, A Phosphorescent Ir(III) Complex with Formamide for Luminescent Determination of Low-level Water Content in Organic Solvents, *Journal of Materials Chemistry C*, **2016**, *4*, 6110-6116.

(17) Qiang Zhao*, Yahong Liu, Yunfa Cao, Wen Lv, **Qi Yu**, Shujuan Liu, Xiangmei Liu, Mei Shi*, Wei Huang*, Rational Design of Nanoparticles with Efficient Lanthanide Luminescence Sensitized by Iridium(III) Complex for Time-Gated Luminescence Bioimaging, *Advanced Optical Materials*, **2015**, *3*, 233-240.

(18) Wenpeng Lin, Qiang Zhao*, Huibin Sun, Kenneth Yin Zhang, Huiran Yang, **Qi Yu**, Xinhui Zhou, Song Guo, Shujuan Liu, Wei Huang*, An Electrochromic Phosphorescent Iridium(III) Complex for Information Recording, Encryption and Decryption, *Advanced Optical Materials*, **2015**, *3*, 368-375.

(19) Zejing Chen, Kenneth Yin Zhang, Xiao Tong, Yahong Liu, Changyong Hu, Shujuan Liu, **Qi Yu**, Qiang Zhao*, Wei Huang*, Phosphorescent Polymeric Thermometers for in Vitro and in Vivo Temperature Sensing with Minimized Background Interference, *Advanced Functional Materials*, **2016**, *26*, 4386-4396.

(20) Shujuan Liu, Lili Zhang, Tianshe Yang, Huiran Yang, Kenneth Yin Zhang, Xin Zhao, Wen Lv, **Qi Yu**, Xinglin Zhang, Qiang Zhao*, Xiangmei Liu, Wei Huang*, Development of Upconversion Luminescent Probe for Ratiometric Sensing and Bioimaging of Hydrogen Sulfide, *ACS Applied Materials & Interfaces*, **2014**, *6*, 11013-11017.

(21) Tingchun Ma, Yun Ma, Shujuan Liu, Lili Zhang, Tianshe Yang, Hui-Ran Yang, Wen Lv, **Qi Yu**, Wenjuan Xu, Qiang Zhao*, Wei Huang*, Dye-Conjugated Upconversion Nanoparticles for Ratiometric Imaging of Intracellular pH Values, *Journal of Materials Chemistry C*, **2015**, *3*, 6616-6620.

(22) Peng Tao, Wei-Ling Li, Jing Zhang, Song Guo, Qiang Zhao*, Hua Wang*, Bin Wei, Shu-Juan Liu, Xin-Hui Zhou, **Qi Yu**, Bing-She Xu, Wei Huang*, Facile Synthesis of Highly Efficient Lepidine-Based Phosphorescent Iridium(III) Complexes for Yellow

and White Organic Light-Emitting Diodes, *Advanced Functional Materials*, **2016**, *26*, 881-894.