

Resume of Peiyao CHEN

Basic Information



School:	School of Life and Health Sciences
Gender:	Female
Date of Birth:	199304
Title:	Associate Professor
Education:	Ph.D in Analytical Chemistry
Tutor:	Master degree
Interest of research:	Supramolecular chemistry, molecular imaging, and biomedical analysis

Academic Background

From September 2011 to July 2015, University of Science and Technology of China, Bachelor's degree in Chemistry;

From September 2015 to July 2020, University of Science and Technology of China, Ph.D in Analytical Chemistry;

From July 2020 to July 2022, Sun Yat-Sen University, Postdoctoral research.

Representative Projects

1. National Natural Science Foundation of China, "A ruthenium complex with photothermal-fluorescence switchable performance for imaging-based self-evaluation of tumor therapeutic efficiency", China, Project leader.
2. China Postdoctoral Science Foundation funded project, China, Project leader.
3. Opening Project of Key Laboratory of Optoelectronic Chemical Materials and Devices, Ministry of Education, Jiangnan University, Project leader.
4. Research Foundation of Hubei University of Technology, "In Situ Self-Assembly of Nanodrugs for the Treatments of Bacterial Biofilms", Project leader.

Representative Articles

1. Facile Syntheses of Conjugated Polymers for Photothermal Tumour Therapy. *Nature Communications*, 2019, 10, 1192.
2. Carboxylesterase-Cleavable Biotinylated Nanoparticle for Tumor-Dual Targeted Imaging. *Theranostics*, 2019, 9, 7359-7369.
3. Bioluminescent Turn-On Probe for Sensing Hypochlorite in Vitro and in Tumors. *Analytical Chemistry*, 2017, 89, 5693-5696.
4. Intracellular Synthesis of Hybrid Gallium-68 Nanoparticle Enhances MicroPET Tumor Imaging. *Analytical Chemistry*, 2021, 93, 6329-6334.
5. Stimuli-Instructed Sequential Morphological Transformations for Molecular Imaging. *Sensors & Diagnostics*, 2024, 3, 489-503.
6. Mechanistic Study of CBT-Cys Click Reaction and its Application for Identifying

Bioactive N-Terminal Cysteine Peptides in Amniotic Fluid. *Chemical Science*, 2017, 8, 214-222.

7. Furin-Guided Intracellular ^{68}Ga Nanoparticle Formation Enhancing Tumor MicroPET Imaging. *Analytical Chemistry*, 2019, 91, 14842-14845.

8. Rationally Designed Benzobisthiadiazole-Based Covalent Organic Framework for High-Performance NIR-II Fluorescence Imaging-Guided Photodynamic Therapy. *Advanced Healthcare Materials*, 2024, 13, 2303842.

9. Enzyme-Instructed Aggregation/Dispersion of Fluorophores for Near-Infrared Fluorescence Imaging In Vivo. *Molecules*, 2023, 28, 5360.

10. Metal-Organic Framework (MOF)-Based Materials for Pyroptosis-Mediated Cancer Therapy. *Chemical Communications*, 2024, 60, 6476-6487.