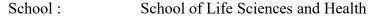
Resume of Huiling GUO

Basic Information



Engineering

Gender: Female Date of Birth: 198010

Title: Associate professor
Education: Ph.D of Engineering
Tutor: Master degree

Interest of Nanomedicine, design of intelligent

research: nanomedicine delivery system



From September 1999 to July 2003, Wuhan Institute of Technology, Bachelor's degree in Pharmaceutical Engineering;

From September 2003 to July 2006, Wuhan University of Technology, Master's degree of Applied chemistry;

From September 2008 to July 2011, Wuhan University of Technology, Ph.D. of Materials science.

Enrollment Information

- 1. Enrollment Discipline: Pharmacy, Biopharmaceutical Engineering, Biological Medicine
- 2. Research direction: Nanomedicine, design of intelligent nanomedicine delivery system, separation and application of magnetic materials, molecular image
- 3. Enrollment Year: 2023-2024

Representative Projects

- 1. National Natural Science Foundation of China (Young Foundation) "Construction and Analysis of Complex Magnetic Nanoparticles for Specific Enrichment and Highly Selective Separation and Purification of Target Proteins", China, Project leader.
- 2. Natural Science Foundation of Hubei Province "Construction of Composite Magnetic Nanoparticles for Specific Enrichment and Highly Selective Separation and Purification of Target Proteins ", Hubei Province, Project leader.
- 3. Horizontal project "Nano Targeted Drug Development Platform Construction ", Hubei University of Technology, Project leader.
- 4. Independent Innovation Project of Hubei University of Technology "Targeted Multi-mode Collaborative Cancer Diagnosis and Treatment Nano Delivery System Research", Project leader.
- 5. Innovation and Entrepreneurship Training for College Students in Hubei Province "Dual-targeted Biodegradable MSNs for Tumor Synergistic

Representative Articles

1Amplification of Oxygen-Independent Free Radicals Based on a Glutathione Depletion and Biosynthesis Inhibition Strategy for Photothermal and Thermodynamic Therapy of Hypoxic Tumors, ACS Applied Materials & Interfaces, Vol. 16, 2024, Page 20079–20091.

- 2. Enzyme Functionalized PEOz Modified Magnetic Polydopamine with Enhanced Penetration for Cascade-augmented Synergistic Tumor Therapy, International Journal of Biological Macromolecules, Vol. 242, 2023, Page 124048.
- 3. Tumor Microenvironment (TME)-modulating Nanoreactor for Multiply Enhanced Chemodynamic Therapy Synergized with Chemotherapy, Starvation, and Photothermal Therapy. J Mater Chem B., Vol.11, 2023, Page 1739-1748.
- 4. Copper-based Metal-organic Framework Enables ROS Amplification and Drug-potency Activation, Langmuir, Vol. 39, 2023, Page 8008–8021.
- 5. pH-responsive Nanocatalyst for Enhancing Cancer Therapy via H₂O₂ Homeostasis Disruption and Disulfiram Sensitization, Journal of Materials Chemistry B., Vol. 11, 2023, Page 3397–3405.
- 6. Hyaluronic Acid-functionalized Redox Responsive Immunomagnetic Nanocarrier for Circulating Tumor Cell Capture and Release, Nanotechnology, Vol. 32, 2021, Page 475102-475114.
- 7. Recyclable Adsorbents Based on Fe₃O₄ Nanoparticles on Lanthanum-modified Montmorillonite for the Efficient Phosphate Removal, IET Nanobiotechnology, Vol14, 2020, Page 527-536.
- 8. High-efficiency Ni²⁺-NTA/PAA Magnetic Beads with Specific Separation on His-tagged Protein, IET Nanobiotechnology, Vol. 14, 2020, Page 67-72.
- 9. Silver Triethanolamine Loaded PVB/CO Films for a Pontential Liquid Bandage Application, Journal of Biomaterials Applications, Vol. 33, 2019, Page1434-1443.
- 10. Fast and Highly Selective Separation of His-tagged Proteins by Ni²⁺ Carrying Monodisperse Magnetic Core-shell Nanoparticles, Applied Physics A, Vol. 125, 2019, Page 333-334.
- 11. Fe₃O₄@PAM@NTA-Ni²⁺ Magnetic Composite Nanoparticles for Highly Specific Separation of His-tagged Proteins, Journal of Wuhan University of Technology-Materials Science Edition, Vol.33, 2018, Page 559-565.
- 12. Selective Binding and Magnetic Separation of His-tagged Proteins Using Fe₃O₄/PAM/NTA-Ni²⁺ Magnetic Nanoparticles, IOP Conference Series: Materials Science and Engineering, Vol.322, 2018, Page 022017.