

## Resume of Mingxing LIU

### **Basic Information**



School :	School of Life and Health Sciences
Gender:	Male
Date of Birth:	197002
Title:	Professor
Education:	Ph.D of Biomedical Engineering
Tutor:	Doctor degree
Interest of research:	Pharmacy, pharmaceutical engineering specialty

### **Academic Background**

From September 1990 to July 1993, Hubei Polytechnic University, University's degree in Chemical Engineering

From September 1996 to July 1999, Wuhan Institute of Technology, Master's degree of Pharmacy

From September 2001 to July 2004, Huazhong University of Science and Technology, Ph.D of Biomedical Engineering

### **Work Experience**

2005/01-2007/01, Post-doctoral, Tsinghua university, China

### **Enrollment Information**

1. Enrollment Discipline: PhD's and Master's in Biomedicine
2. Research direction: Pharmacy, pharmaceutical engineering specialty
3. Enrollment Year: 2025-2026

### **Representative Projects**

1. Innovation Fund for Small and Medium Enterprises "Research and development of new class I drug Tivozanib for targeted therapy of advanced renal cell carcinoma", China, Project leader.
2. National Natural Science Foundation " Study on the action mechanism and structure-activity relationship model of polycarboxylate superplasticizers ", China, The Second Project leader.
3. Hubei Province University Outstanding Young and Middle-aged Science and Technology Innovation Team Plan "Study on the Synthesis of Silicon Nanotubes and Its Drug Delivery System", Hubei Province, Project leader.
4. Natural Science Foundation of Hubei Province "Study on the mechanism of chemical self-assembly synthesis of two-end-capped silicon nanotubes", Hubei Province, Project leader.
5. Hubei province science and technology research project "Development of a new

non-steroidal anti-inflammatory drug-vadicoxib", Hubei Province, Project leader.

6. Hubei Provincial Department of Education Youth Project "Preparation of 4-[5-methyl-5-hydroxy-3-phenylisoxazole] sulfonamide", Hubei Province, Project leader.

7. Key Projects of Wuhan Science and Technology Bureau " Research and development of candesartan cilexetil self-microemulsifying soft capsules ", Wuhan, Hubei Province, Project leader.

## **Representative Articles**

1.High-precision colorimetric-fluorescent dual-mode biosensor for detecting acetylcholinesterase based on a trimetallic nanozyme for efficient peroxidase-mimicking. *Journal of Materials Science & Technology*, Vol. 191, 2024, Page 168-180.

2.An ultrasensitive unlabeled electrochemical immunosensor for the detection of cardiac troponin I based on Pt/Au-B,S,N-rGO as the signal amplification platform. *Talanta*, Vol. 270, 2024, Page 125546.

3.A novel competitive fluorescence colorimetric dual-mode immunosensor for detecting ochratoxin A based on the synergistically enhanced peroxidase-like activity of AuAg NCs-SPCN nanocomposite. *Food Chemistry*, Vol. 437, 2024, Page 137930.

4.Preparation and model construction of novel 2D nanocomposite of Zn-P-GCNN and its mechanisms of synergistic adsorption for Cu(II) and methylene blue. *Journal of Cleaner Production*, Vol. 395, 2023, Page 136387.

5.A sensitive ratiometric biosensor for determination cardiac troponin I of myocardial infarction markers based on N, Zn-GQDs. *Talanta*, Vol. 249, 2022, Page 123577-123584.

6.Competitive fluorescent immunoassay for the ultrasensitive determination of amyloid beta peptide1-42 based on Ag@SiO<sub>2</sub>@N, S-GQDs nanocomposites. *Microchimica Acta*, Vol. 190, 2023, Page 194.

7.A label-free electrochemical immunosensor based on Au-BSN-rGO for high-sensitive detection of  $\beta$ -Amyloid 1-42. *Nanoscale*, Vol. 15, 2023, Page 4063-4070.

8.Competitive fluorescent immunosensor based on FRET between core-shell graphene quantum dots and Au nanoparticles for ultra-sensitive detection of Ochratoxin A. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, Vol. 684, 2024, Page 133182.

9.Fluorescence and colorimetric dual-mode multienzyme cascade nanoplatfrom based on CuNCs/FeMn-ZIF-8/PCN for detection of sarcosine. *Analyst*, Vol. 149, 2024, Page 935-946.

10.Redox-responsive mesoporous silica nanoparticles based on fluorescence resonance energy transfer for anti-cancer drug targeting and real-time monitoring. *Journal of Materials Research*, Vol. 36, 2021, Page 1883-1898.