Resume of Hongmei SUN

Basic Information

School :	School of Life and Health Sciences
Gender：	Female
Date of Birth：	198408
Title：	Associate Professor
Education：	Ph.D of Natural Science
Tutor：	Master degree
Interest of research:	Design and application of multifunctional nano-diagnostic agent; Construction of new nano-dressing

Academic Background

From September 2002 to July 2006,Shandong Normal University, Bachelor's degree in Natural Science;
From September 2007 to January 2013, Changchun Institute of Applied Chemistry, Chinese Academy of Science, Ph.D of Natural Science.

Oversea visiting

2017/03-2018/03, Visiting scholar, Technical University of Denmark, Denmark;

Enrollment Information

1. Enrollment Discipline: Master of Pharmacy; Master of Biopharmaceutics
2. Research direction: Nano drugs; Pharmaceutics
3. Enrollment Year: 2023-2024

Representative Projects

1. National Natural Science Foundation of China, "Research based on bismuth sulfide nanomaterials" (No.21501054), Project leader.
2. Hubei Provincial Department of Education, Hubei Provincial Universities Excellent Young and Middle-aged Science and Technology Innovation Team Program project, "Tumor early diagnosis reagent and development based on nanotechnology" (No. T201705).
3. General project of Natural Science Foundation of Hubei Province, "Reduction-responsive shell cross-linked polymer micelles for efficient loading and targeted control release of doxorubicin" (No.2015CFB588).
4. The key project of the Natural Science Foundation of Hubei Province, "modular construction of precise controlled release chemical-photothermal therapy nanodrugs and their targeted tumor research" (No.2014CFA080).

Representative Articles

1. Yuyu Cao, Yunjing Jiang, Rongxian Bai, Jie Wu, Lei Dai, Shufan Wan, Hongda Zhu, Jiangtao Su, Mingxing Liu, **Hongmei Sun***,A multifunctional protein-based hydrogel with Au nanozyme-mediated self eneration of H2S for diabetic wound healing, International Journal of Biological Macromolecules, 2024, 271, 132560.
2. Yunjing Jiang, Yuyu Cao, Jie Wu, Rongxian Bai, Shufan Wan, Lei Dai, Jiangtao Su, **Hongmei Sun***, Au nanozyme-based multifunctional hydrogel for inflammation visible monitoring and treatment, Mater. Today Bio, 2024, 25, 100960.
3. Yunjing Jiang, Tongdai Huang, Yuyu Cao, Rongxian Bai, Jie Wu, Zuxi Wang, **Hongmei Sun***, Construction and Application of Polylysine Peptide Modified Gelatin Multifunctional Hydrogel. Chem. J. Chinese Universities, 2024, 45, 20230312.
4. Tongdai Huang, Yuyu Cao, Yunjing Jiang, Beibei Zhai, Rongxian Bai, Jie Wu, Xiangyu You, Hongda Zhu, Mingxing Liu, **Hongmei Sun***, Injectable and adhesive thermosensitive hydrogels with ultrafast self-gelling activity for bacteria-infected wound healing. Chin. J. Anal. Chem., 2023, 51, 982-993.
5. Shenwan Li, Tongdai Huang, Beibei Zhai, Yunjing Jiang, Yuyu Cao, ZuxiWang, Jie Wei, **Hongmei Sun***, Fabrication and Analysis of Wound Hemostasis and Antibacterial Properties of Silver Nanoparticles-Mesoporous Chabazite-Non-woven Composites. Chin. J. Anal. Chem., 2022, 50, 554-563.
6. Wenbo Wang#, Anders E. Hansen#, **Hongmei Sun#**, Frederikke P. Fliedner, Andreas Kjaer, Andreas I. Jensen, Thomas L. Andresen, Jonas R. Henriksen*, Carbohydrate based biomarkers enable hybrid near infrared fluorescence and ^{64}Cu based radio-guidance for improved surgical precision, Nanotheranostics, 2021, 5, 448-460.
7. Xiaoshuang Zhao, Shenwan Li, Tongdai Huang, **Hongmei Sun***, Hongda Zhu, Huiling Guo, Mingxing Liu, Synthesis of Au/Bi_2S_3 nanoflowers for efficient photothermal therapy, New J. Chem, 2020, 44, 18724-18731.
8. Hongying Guo, Shan Jiang, ChaoyuanWang, Shenwan Li, Jianjian Feng, **Hongmei Sun***, Hongda Zhu, Huiling Guo, Mingxing Liu, Honghao Sun, Journal of Wuhan University of Technology-Mater. Sci. Ed., 2019, 34, 303-307.
9. Hongying Guo, **Hongmei Sun***, Hongda Zhu, Huiling Guo and Honghao Sun, Synthesis of Gd-functionalized Fe_3O_4@polydopamine nanocomposites for T_1/T_2 dual-modal magnetic resonance imaging-guided photothermal therapy, New J. Chem., 2018, 42, 7119.
10. Hongying Guo, Xiaoshuang Zhao, **Hongmei Sun*,** Hongda Zhu and Honghao Sun, Synthesis of gadolinium-based Bi2S3 nanoparticles as cancer theranostics for dual-modality computed tomography/magnetic resonance imaging-guided photothermal therapy, Nanotechnology, 2019, 30, 075101.