Research Field:

1. Study of targeted delivery, controlled release, biological and chemical effects and mechanisms of long circulating nanoparticles;
2. A new type of nano bionic material was designed and constructed on the surface of nanoparticles, and the growth mechanism of the nanomaterials was studied in the aspects of space orientation, biological activity and different conditions;
3. Optimization of process control for biological active agents, functional food, microbial fermentation metabolites, and their bioavailability and mass production.

Education background & Professional Experiences:

She graduated from Applied Chemistry of Yanshan University. She studied in Biological Chemistry Institute of Canada National Academy of Sciences and Illinois Institute of Technology in America. She serves as assistant dean in college of environmental and chemical engineering. She was appointed as a member of the American chemical society, Chinese chemical society, vice-chairman of Hebei teaching committee of biology, director of Hebei biochemistry and molecular biology society, guest editor of *Journal of Nanomaterials*, editor of *Drug Designing Journal* and *Journal Biotechnology*, a member of editorial board of *Coal and Chemical Industry*, evaluation expert of National Invention Award and National Natural Fund.

1988.9-1992.7 Bachelor of Science in Biology, Qiqihar University
1992.7-1995.9 Teacher, Department of Biology and Genetic, Qiqihar Medical University
1995.9-1998.7 Master of Medicine in Medical Microbiology, Harbin Medical University
1998.7-2002.10 Lecturer and Vice Director, Department of Bioengineering, Yanshan University
2002.10-2008.10 Doctor of Engineering, Associate Professor, and Vice Director, Department of Bioengineering, Yanshan University
2008.10-2010.5 Professor, and Vice Director, Department of Bioengineering, Yanshan University
2010.5-now Doctoral Supervisor and Vice Director, School of Environmental and
Teaching & Research:

**Representative paper nearly three years:**


2. Yanping Liu, Xuwu Zhang, Zhiwei Liu, Longgang Wang, Liyao Luo, Meili Wang, Qianqian Wang, **Dawei Gao**. Gold Nanoshell-Based Betulinic Acid Liposomes for Synergistic Chemo-Photothermal Therapy[J]. Nanomedicine: nanotechnology, biology, and medicine, 2017. DOI: 10.1016/j.nano.2017.03.012 (Impact factor: 5.671, 1 zone)


10. Xue Weili , Li Yanji , Zhou Jing, Wang Zi, **Gao Dawei**. Self-assembly of adenovirus-templated platinum nanoshells and evaluation of their...


Monographs:

Presided Research Projects:
5. Hebei Province Natural Science Foundation of China: “Preparation of Oleanolic Acid Nanoparticles and Study of Its Anti-Diabetic Effect”
6. Doctoral Fund of Ministry of Education: “Study on Hypoglycemic Action of Oleanolic Acid and Its Molecular Target Site and Signal Pathway”
7. Hebei Province Department of Education Natural Science Foundation: “Study on
### Mechanism of Oleanolic Acid in Preventing Diabetes Mellitus

8. Qinhuangdao City Science and Technology Research and Development Project: “Mutation Screening of Lactic Acid Bacteria and Its Application in Wine Fermentation”

9. Hebei Province Science and Technology Research and Development Program Science and Technology Support Project: “Pathogenesis of Parkinson's Disease and Its Early Diagnosis”


### Awards:

