Zhipeng Liu, PhD, Professor
25 June 1982, Nanjing; Chinese
College of Materials Science and Engineering
Nanjing Forestry University (NJFU)
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Research Interests

1. Molecular probes for in vivo bioimaging.
2. NIR-absorbing Boron dipyrromethane dyes for biophotonics.
3. Smart luminescent materials.

Research and Teaching Experiences

2019–now	**Professor**, College of Materials Science and Engineering, NJFU
2015–2019	**Associate Professor**, Institute of Advanced Materials, Nanjing Tech University
2014–2015	**Research Associate**, Dept. Chemistry, The Chinese University of Hong Kong, China
2013–2014	**Associate Professor** , Dept. Chemistry, Liaocheng University, China
2010–2013	**Assistant Professor** , Dept. Chemistry, Liaocheng University, China

Education

2007–2010	**PhD** in Inorg. Chem. (*Prof. Zijian Guo*), Nanjing University, China
2004–2007	**MS** in Org. Chem. (*Prof. Dianshun Guo*), Shandong Normal University, China.
2000–2004	**BS** in Chem. Liaocheng University, China

Funds

2024–2028	Natural Science Foundation of China (No. 22377057; ¥ 500 000).
2020–2023	Natural Science Foundation of China (No. 21971115; ¥ 650 000).
2023–2026	Natural Science Foundation of Jiangsu Province (¥ 100 000)
2022–2025	Nanjing Forestry University's Landmark Achievement project (¥ 250 000).
2019–2022	Nanjing Forestry University's Landmark Achievement project (¥ 500 000).
2017–2020	Key University Science Research Project of Jiangsu Province (No. 17KJA150004; ¥ 300 000)
2014–2016	Natural Science Foundation of China (No. 21301085; ¥ 280 000).
2011–2014	Natural Science Foundation of Shandong Province, China (No. ZR2011BQ010; ¥ 50 000).

Awards and Fellowships (Selected)

2025-	Editorial Board of *Journal of Inorganic Biochemistry* (Elsevier)
2025-2028	Advisory Board of *Chinese Chemical Letters* (CCS)
2023–2026	Early Career Advisory Board (ECAB) of *ACS: Chemical & Biomedical Imaging*

2024	"Kunlun Talents · High-level Innovation and Entrepreneurship Experts" of Qinghai Province, China
2022	"333 High-level Talent Training Project" of Jiangsu Province, China
2022	Science and Technology Award of Shandong Society of Chemistry and Chemical Engineering
2009. 11	Jiang Wenruo Scholarship, Nanjing University
2009.10	*Dalton Transactions Poster Prize* for the 1st Dalton Transactions International Symposium.
2009.5	*Oral presentation prize* for the 2nd Symposium of Postgraduate Research of School of Chemical and Chemistry Engineering, Nanjing University.

CONFERENCES

2025.12	**Invited Speaker**, Symposium on Intelligent Health Electronics (Xiamen, China)
2025.11	**Invited Speaker**, The 2st Academic Symposium on Optical Sensing and Diagnosis and Treatment (Changsha, China)
2025.9	**Invited Speaker**, 10th Chinese Conference on Coordination Chemistry (Tianjing, China)
2025.5	**Invited Speaker**, 9th National Conference on Structural Chemistry (Nanjing, China).
2025.4	**Invited Speaker**, 13th National Conference on Chemical Biology (Changsha, China).
2025.4	**Invited Speaker**, The 8th Young Scholars Symposium on Fluorescent Probes and Imaging (Nanjing, China)
2024.12	**Invited Speaker**, 11th Asian Biological Inorganic Chemistry Conference (AsBIC 11) (Guilin, China).
2024.8	**Invited Speaker**, 17th National Conference on Biological Inorganic Chemistry (Wuhan, China).
2024.8	**Invited Speaker**, 1st International Symposium on Chemical and Biomedical Imaging (CBMI-I) (Nanjing, China).
2024.6	**Invited Speaker**, 34th CCS Congress (Guangzhou, China).
2024.4	**Invited Speaker**, CCS The 18th National Synthetic Organic Chemistry Symposium (Wuhu, China)
2024.4	**Invited Speaker**, The 7th Young Scholars Symposium on Fluorescent Probes and Imaging (Haikou, China)
2023.12	**Invited Speaker**, Medicinal Chemical Biology Frontier Symposium of Jiangsu Province (CPU, Nanjing, China)
2023.11	**Invited Speaker**, The 1st Academic Symposium on Optical Sensing and Diagnosis and Treatment (Beijing, China)
2023.8	**Invited Speaker**, Chemical Biology Symposium on Diagnosis and Treatment of Complex Diseases (Xian, China).
2023.7	**Oral Speaker**, 16th National Conference on Biological Inorganic Chemistry (Guangzhou, China).
2023.6	**Invited Speaker**, 33th CCS Congress (Qingdao, China).
2023.4	**Invited Speaker**, 12th National Conference on Chemical Biology (Dalian, China).
2021.10	**Invited Speaker**, 15th National Conference on Biological Inorganic Chemistry

(Taiyuan, China).

2019.4 **Invited Speaker**, Academic Symposium on Inorganic Chemistry and Chemical Engineering in the Central and Western Regions-2019 (Chongqing, China)

2018.10 **Invited Speaker**, 14th National Conference on Biological Inorganic Chemistry (Nanjing, China).

2018.9 **Invited Speaker**, 1st Chinese Conference on Aggregation-Induced Emission (Xi'an China).

2016.11 **Invited Speaker**, Taishan Academic Forum on Biological Inorganic Chemistry and Nano Materials.

2015.8 **Oral Speaker**, 9th CCS National Organic Chemistry Conference (Changchun, China).

2015.7 **Invited Speaker**, 12th National Conference on Biological Inorganic Chemistry (Beijing, China).

2015.7 **Poster**, 17th International Conference on Biological Inorganic Chemistry (Beijing, China).

2011.9 **Poster**, 11th National Conference on Biological Inorganic Chemistry (Baoding, China).

2009.11 **Poster**, 2nd Asian Coordination Chemistry Conference (ACCC2) (Nanjing, China).

2009.10 **Poster**, 1st Dalton Transactions International Symposium (Nanjing)

2009.5 **Oral Speaker**, the 2nd Symposium of Postgraduate Research of School of Chemical and Chemistry Engineering, Nanjing University

2009.4 **Poster**, 10th National Conference on Biological Inorganic Chemistry (Xinxiang, China).

2008.11 **Poster**: 4th Asian Biological Inorganic Chemistry Conference (AsBIC 4) (Jeju, Korea).

Reviewing and Society Memberships

Grant Rev	Natural Science Foundation of China (NSFC)
Pub Rev	JACS, Angewandte, Sci. Adv., Nat. Commun., Adv. Sci., Mater. Horiz., Anal. Chem., Chem. Commun., Dalton Trans., J. Org. Chem., Org. Lett., Chem. Eur. J.
Societies	Chinese Chemical Society (CCS); Jiangsu Materials Research Society (JSMRS)

Represent Publications (*: corresponding author; updated list **online**)

1. Zhiyong Jiang, *et. al.*, Fang Liu,* Jing Zhao,* and **Zhipeng Liu***
   Dynamic Photoacoustic Imaging of Mobile Cu(II) in Vivo via Catalytic Radical Cation Formation
   Angewandte Chemie International Edition, **2025**, 64, e202500149.
2. Zhiyong Jiang, *et. al.*, Fang Liu,* Jing Zhao,* and **Zhipeng Liu***
   Shortwave Infrared Absorbing and Fluorescent BODIPY J-Aggregates for High-Contrast in Vivo Imaging
   Chemical Science, **2025**, 16, 17779-17792.
3. Zhiyong Jiang, *et. al.*, **Zhipeng Liu***
   A NIR-II Photoacoustic Probe for High Spatial Quantitative Imaging of Tumor Nitric Oxide in Vivo
   Angewandte Chemie International Edition, **2024**, 63, e202320072.
4. Zhiyong Jiang, *et. al.*, **Zhipeng Liu***

A Small-Molecular Ratiometric Photoacoustic Probe for the High-Spatiotemporal-Resolution Imaging of Copper(II) Dynamics in the Mouse Brain
Angewandte Chemie International Edition, **2024**, 63, e202318340.

5. Zhiyong Jiang, *et. al.*, Yuncong Chen*, Weijiang He*, **Zhipeng Liu*** and Zijian Guo
Blood-Brain Barrier Permeable Photoacoustic Probe for High-Resolution Imaging of Nitric Oxide in the Living Mouse Brain
Journal of the American Chemical Society, **2023**, 145, 7952-7961.
6. Yijing Cui, Xiaoqing Wang, *et. al.*, **Zhipeng Liu*** and Zijian Guo
A Photoacoustic Probe with Blood-Brain Barrier Crossing Ability for Imaging Oxidative Stress Dynamics in the Mouse Brain
Angewandte Chemie International Edition, **2023**, 62, e202214505.
7. Tianzhu Wang, Zhiyong Jiang, and **Zhipeng Liu***
1,4-Bisvinylbenzene-Bridged BODIPY Dimers for Fluorescence Imaging in the Second Near-Infrared Window
Organic Letters, **2023**, 25, 1638-1642.
8. Xiaoqing Wang, *et. al.*, and **Zhipeng Liu***
Discovery of BODIPY J-aggregates with Absorption Maxima Beyond 1200 nm for Biophotonics
Science Advances, **2022**, 8, eadd5660.
9. Zhiyong Jiang, *et. al.*, Xiaoqing Wang,* Zongxin Ling,* **Zhipeng Liu***
A Borondifluoride-Complex-Based Photothermal Agent with an 80% Photothermal Conversion Efficiency for Photothermal Therapy in the NIR-II Window
Angewandte Chemie International Edition, **2021**, 60, 22376-22384.
10. Kang Li, *et. al.*, Yuncong Chen,* Guo-qiang Zhang*, **Zhipeng Liu***
J-Aggregates of *meso*-[2.2] Paracyclophanyl-BODIPY Dye for NIR-II Imaging
Nature Communications, **2021**, 12, 2376.