#### 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-aborbing Boron dipyrromethane dyes for biophotonics.
- 3. Smart luminescent materials.

#### RESEARCH and TEACHING EXPERIENCES

INESEARCH 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. ( <i>Prof. Dianshun Guo</i> ), Shandong Normal University, China.
2000-2004	BS in Chem. Liaocheng University, China
<u>Funds</u>	
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)

# 2014–2016 Natural Science Foundation of China (No. 21301085; ¥ 280 000).

Natural Science Foundation of Shandong Province, China (No. ZR2011BQ010; ¥ 50 2011–2014

Nanjing Forestry University's Landmark Achievement project (¥ 250 000). Nanjing Forestry University's Landmark Achievement project (¥ 500 000).

Key University Science Research Project of Jiangsu Province (No. 17KJA150004;

000).

2022-2025

2019-2022

2017-2020

#### AWARDS and FELLOWSHIPS (Selected)

¥ 300 000)

2023-2024	Early Career Advisory Board (ECAB) of ACS: Chemical & Biomedical Imaging
2022	"333 High-level Talent Training Project" of Jiangsu Province
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 2 <sup>nd</sup> Symposium of Postgraduate Research of School
	of Chemical and Chemistry Engineering, Nanjing University.

## DISTINCTIONS & CONFERENCES

2023.8	Invited Speaker, Chemical Biology Symposium on Diagnosis and Treatment of
	Complex Diseases (Xian, China).
2023.7	<b>Oral Speaker</b> , 16 <sup>th</sup> National Conference on Biological Inorganic Chemistry
	(Guangzhou, China).
2023.6	Invited Speaker, 33 <sup>th</sup> CCS Congress (Qingdao, China).
2023.4	Invited Speaker, 12 <sup>th</sup> National Conference on Chemical Biology (Dalian, China).
2021.10	<b>Invited Speaker</b> , 15 <sup>th</sup> 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	<b>Invited Speaker</b> , 14 <sup>th</sup> 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	<b>Oral Speaker</b> , 9 <sup>th</sup> CCS National Organic Chemistry Conference (Changchun, China).
2015.7	<b>Invited Speaker</b> , 12 <sup>th</sup> National Conference on Biological Inorganic Chemistry
	(Beijing, China).
2015.7	<b>Poster</b> , 17 <sup>th</sup> International Conference on Biological Inorganic Chemistry (Beijing,
	China).
2011.9	Poster, 11 <sup>th</sup> National Conference on Biological Inorganic Chemistry (Baoding,
	China).
2009.11	<b>Poster</b> , 2 <sup>nd</sup> Asian Coordination Chemistry Conference (ACCC2) (Nanjing, China).
2009.10	<b>Poster</b> , 1 <sup>st</sup> Dalton Transactions International Symposium (Nanjing)
2009.5	<b>Oral Speaker</b> , the 2 <sup>nd</sup> Symposium of Postgraduate Research of School of Chemical
	and Chemistry Engineering, Nanjing University
2009.4	<b>Poster</b> , 10 <sup>th</sup> National Conference on Biological Inorganic Chemistry (Xinxiang,
	China).
2008.11	<b>Poster</b> : 4 <sup>th</sup> 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)

 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.

2. 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.

3. 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.

4. 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.

5. 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.

 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.

7. Zhipeng Liu,\* Qian Sun, Ming Yan, Changli Zhang,\* Hao Yuan, Weijiang He\*

Dynamic Tracking of Mitophagy Induced by Peroxynitrite via A Fluorescent Molecular Logic Gate Probe

Analytical Chemistry, 2021, 93, 3502-3509.

8. Qian Sun, et. al., Chengwu Zhang,\* Lin Li\*, Zhipeng Liu\*

Ultrafast Detection of Peroxynitrite in Parkinson's Disease Models Using a Near-Infrared Fluorescent Probe

Analytical Chemistry, 2020, 92, 4038-4045.

9. Zhiyong Jiang, Xiaoqing Wang,\* Jianping Ma and Zhipeng Liu\*

Aggregation-Amplified Circularly Polarized Luminescence from Axial Chiral Boron Difluoride Complexes

Science China Chemistry, 2019, 62, 355-362.

10. Dan Tian, et. al., Zhen Shen,\* Zhipeng Liu\* Ling Huang\*

Domino-like Multi-emissions Across Red and Near Infrared from Solid-State 2-/2,6-Aryl Substituted BODIPY Dyes

Nature Communications, 2018, 9, 2688.