

史文静

哲学博士，1985年12月生，副教授
硕士生导师 (化学学硕 + 材料与化工专硕)

专 业： 化学
研究领域： 有机小分子荧光探针及生物成像/光动力治疗
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教育经历

2009.08 - 2013.07, 香港中文大学, 化学系, 哲学博士学位。导师: Prof. Dennis K. P. Ng
2005.09 - 2009.07, 中国科学技术大学, 化学物理系, 理学学士学位。导师: 张广照 教授

工作经历

2016.01 - 今, 广州大学, 化学化工学院, 讲师, 副教授
2013.08 - 2015.12, 香港中文大学, 化学系, 博士后研究员。合作导师: Prof. Dennis K. P. Ng

讲授课程和指导学生项目

本科生课程: 有机化学、有机化学实验。
指导学生项目和获奖: 指导学生获得本科毕业论文(设计)“创新”一等奖, 广东省“攀登计划”重点项目立项2次, 省级“创新”项目立项1次。

研究方向

氟硼二吡咯 (BODIPY), 荧光探针 (Fluorescent probes), 功能有机染料 (Organic dyes), 聚集诱导发光 (AIE), 生物成像 (Bioimaging)

主要荣誉

入选 2017 年广东省“珠江人才计划”青年拔尖人才项目

承担项目

- [1] [国家自然科学基金青年项目](#), 主持, 2021.01-2023.12
- [2] [广东省自然科学基金项目](#), 主持, 2018.05-2021.04
- [3] 广州市基础研究计划市校(院)联合资助项目, 主持, 2021.05-2023.04.
- [4] 广东省教育厅高等教育创新强校工程-青年创新项目, 主持, 2017.04-2019.03
- [5] 广州市教育局市属高校科研项目-青年项目, 主持, 2017.01-2018.12
- [6] 广州大学启动项目, 主持, 2016.01 - 2017.12
- [7] 广州大学新苗计划, 主持, 2016.01 - 2017.12

代表性研究成果 (仅为一作和/或通讯作者)

[1] [Wen-Jing Shi](#), Xu-Hui Yan, Jinrong Yang, Yong-Feng Wei, Yi-Tong Huo, Cai-Ling Su, Jin-wu Yan*, Dongxue Han, and Li Niu*, Development of *meso*-Five-Membered Heterocycle BODIPY-

Based AIE Fluorescent Probes for Dual-Organellar Viscosity Imaging, *Anal. Chem.* **2023**, *95*(25), 9646-9653. (获邀在“分析人”报道)

[2] [Wen-Jing Shi*](#), Ru Chen, Jinrong Yang, Yong-Feng Wei, Yuhui Guo, Zi-Zhou Wang, Jin-wu Yan*, Li Niu, Novel *Meso*-Benzothiazole-Substituted BODIPY-Based AIE Fluorescent Rotor for Imaging Lysosomal Viscosity and Monitoring Autophagy, *Anal. Chem.* **2022**, *94*(42), 14707-14715. (获邀在“分析人”报道)

[3] [Wen-Jing Shi*](#), Yong-Feng Wei, Jinrong Yang, Hui-Zhi Li, Qing-Hui Wan, Yuxuan Wang, Huaxiang Leng, Kun Chen, Jin-wu Yan*, Novel *Meso*-trifluoromethyl BODIPY-based Near-infrared-emitting Fluorescent Probes for Organellar-specific Imaging of Cellular Viscosity, *Sensors Actuat. B Chem* **2022**, *359*, 131594.

[4] [Wen-Jing Shi*](#)¹, Jinrong Yang¹, Yong-Feng Wei, Xiao-Tong Li, Xu-Hui Yan, Yuxuan Wang, Hua-xiang Leng, Liyao Zheng, Jin-Wu Yan*, Novel Cationic *Meso*-CF₃ BODIPY-based AIE Fluorescent Rotors for Imaging Viscosity in Mitochondria, *Chem. Commun.* **2022**, *58*, 1930-1933.

[5] [Wen-Jing Shi*](#), Qing-Hui Wan, Fen Yang, Xuan Wang, Yong-Feng Wei, Xin-Ru Lin, Jian-Ying Zhang, Ri-Hui Deng, Jie-Yan Chen, Liyao Zheng, Fenggang Liu, Liqian Gao*, A Novel TCF-aza-BODIPY-based Near-infrared Fluorescent Probe for Highly Selective Detection of Hypochlorous Acid in Living Cells, *Spectrochim. Acta A* **2022**, *279*, 121490.

[6] Yuhui Guo¹, Huaxiang Leng¹, Yuxuan Wang, [Wen-Jing Shi*](#), Lei Zhang*, Jinwu Yan*, A Novel H₂O₂-activated NIR Fluorescent Probe for Imaging β -amyloid Fibrils and Mitochondrial Viscosity, *Dyes Pigments* **2022**, *206*, 110665.

[7] Yuxuan Wang, Jinrong Yang, Qingxiu Chen, Junyi Su, [Wen-Jing Shi*](#), Lei Zhang, Chunli Xia*, Jinwu Yan*, Rotor-Tuning Boron Dipyrromethenes for Dual-Functional Imaging of A β Oligomers and Viscosity, *ACS Appl. Bio Mater.* **2022**, *5*(6), 3049-3056.

[8] Yong-Feng Wei¹, Xuan Wang¹, [Wen-Jing Shi*](#), Ru Chen, Liyao Zheng, Zi-Zhou Wang, Kun Chen, Liqian Gao*, A Novel Methylenemalononitrile-BODIPY-based Fluorescent Probe for Highly Selective Detection of Hydrogen Peroxide in Living Cells, *Eur. J. Med. Chem.* **2021**, *226*, 113828. (获邀在CBG“人物与科研”报道)

[9] [Wen-Jing Shi*](#), Liu-Xia Feng, Xuan Wang, Yan Huang, Yong-Feng Wei, Huai-Jin Ma, Wei Wang, Menghua Xiang, Liqian Gao*, A Near-infrared-emission Aza-BODIPY-based Fluorescent Probe for Fast, Selective, and “Turn-on” Detection of HClO/CLO⁻, *Talanta* **2021**, *233*, 122581.

[10] [Wen-Jing Shi*](#), Yong-Feng Wei, Chun-Feng Li, Han Sun, Liu-Xia Feng, Shi Pang, Fenggang Liu*, Liyao Zheng, Jin-Wu Yan*, A Novel Near-Infrared-Emitting Aza-Boron-Dipyrromethene-Based Remarkable Fluorescent Probe for Hg²⁺ in Living Cells, *Spectrochim. Acta A* **2021**, *248*, 119207.

[11] Yan Huang, Chun-Feng Li, [Wen-Jing Shi*](#), Hui-Ya Tan, Zhi-Zhou He, Liyao Zheng, Fenggang

- Liu, Jin-Wu Yan*, A Near-Infrared BODIPY-Based Fluorescent Probe for Ratiometric and Discriminative Detection of Hg²⁺ and Cu²⁺ Ions in Living Cells. *Talanta* **2019**, *198*, 390-397.
- [12] [Wen-Jing Shi](#), Chun-Feng Li, Yan Huang, Hui-ya Tan, Yong-Feng Wei, Fenggang Liu*, Liu-Xia Feng, Liyao Zheng, Guo-Shu Chen, Jin-wu Yan*, A BODIPY-based “OFF-ON” Fluorescent Probe for Fast and Selective Detection of Hypochlorite in Living Cells, *Dyes Pigments* **2019**, *170*, 107566.
- [13] [Wen-Jing Shi*](#), Yan Huang, Wancui Liu, Dan Xu, Shu-Ting Chen, Fenggang Liu*, Liyao Zheng, Kun Chen*, A Remarkable Colorimetric Probe for Fluorescent Ratiometric and ON-OFF Discriminative Detection of Hg²⁺ and Cu²⁺ by Double-Channel Imaging in Living Cells, *Dyes Pigments* **2019**, *171*, 107782.
- [14] [Wen-Jing Shi](#), Jian-Yong Liu, Pui-Chi Lo, Dennis K. P. Ng*, Selective Detection of Hg²⁺ Ion with Boron Dipyrromethene-Based Fluorescent Probes Appended with a Bis(1,2,3-triazole)amino Receptor. *Chem. Asian J.* **2019**, *14*(7), 1059-1065.
- [15] [Wen-Jing Shi](#), Dennis K. P. Ng*, Shirui Zhao, Pui-Chi Lo*, A Phthalocyanine-Based Glutathione-Activated Photosensitizer with a Ferrocenyl Boron Dipyrromethene Dark Quencher for Photodynamic Therapy, *ChemPhotoChem* **2019**, *3*(10), 1004-1013.
- [16] [Wen-Jing Shi*](#), Pui-Chi Lo*, Dennis K. P. Ng*, Synthesis and Acid-Responsive Spectral Properties of Near-Infrared-Absorbing Donor- π -Donor-type Aza Boron Dipyrromethenes. *Dyes Pigments* **2018**, *154*, 314-319.
- [17] [Wen-Jing Shi](#), Takumi Kinoshita*, Dennis K. P. Ng*, Ethynyl-Linked Donor- π -Acceptor Boron Dipyrromethenes for Panchromatic Dye-Sensitized Solar Cells, *Asian J. Org. Chem.* **2017**, *6*(6), 758-767.
- [18] [Wen-Jing Shi](#), Takumi Kinoshita*, Dennis K. P. Ng*, Push–Pull Distyryl Boron Dipyrromethenes as Near-Infrared Sensitizers for Dye-Sensitized Solar Cells, *Asian J. Org. Chem.* **2017**, *6*(10), 1476-1485.
- [19] [Wen-Jing Shi](#), Pui-Chi Lo*, Shirui Zhao, Roy C. H. Wong, Qiong Wang, Wing-Ping Fong, Dennis K. P. Ng*, A Biotin-Conjugated Glutathione-Responsive FRET-Based Fluorescent Probe with a Ferrocenyl BODIPY as the Dark Quencher. *Dalton Trans.* **2016**, *45*, 17798-17806.
- [20] [Wen-Jing Shi](#), Roel Menting, Eugeny A. Ermilov, Pui-Chi Lo, Beate Röder, Dennis K. P. Ng*, Formation and Photoinduced Processes of the Host-Guest Complexes of a β -Cyclodextrin-Conjugated Aza-BODIPY and Tetrasulfonated Porphyrins. *Chem. Commun.* **2013**, *49*, 5277-5279.
- [21] [Wen-Jing Shi](#)¹, Mohamed E. El-Khouly*¹, Kei Ohkubo¹, Shunichi Fukuzumi*, Dennis K. P. Ng*, Photosynthetic Antenna-Reaction-Center Mimicry with a Covalently Linked Monostyryl-Boron Dipyrromethene-Aza-Boron-Dipyrromethene-C₆₀ Triad. *Chem. Eur. J.* **2013**, *19*, 11332-11341.

科研主页

<https://www.researchgate.net/profile/Wen-Jing-Shi> (Research gate)

团队主页

<http://caas.gzhu.edu.cn/index.htm>