PERSONAL:

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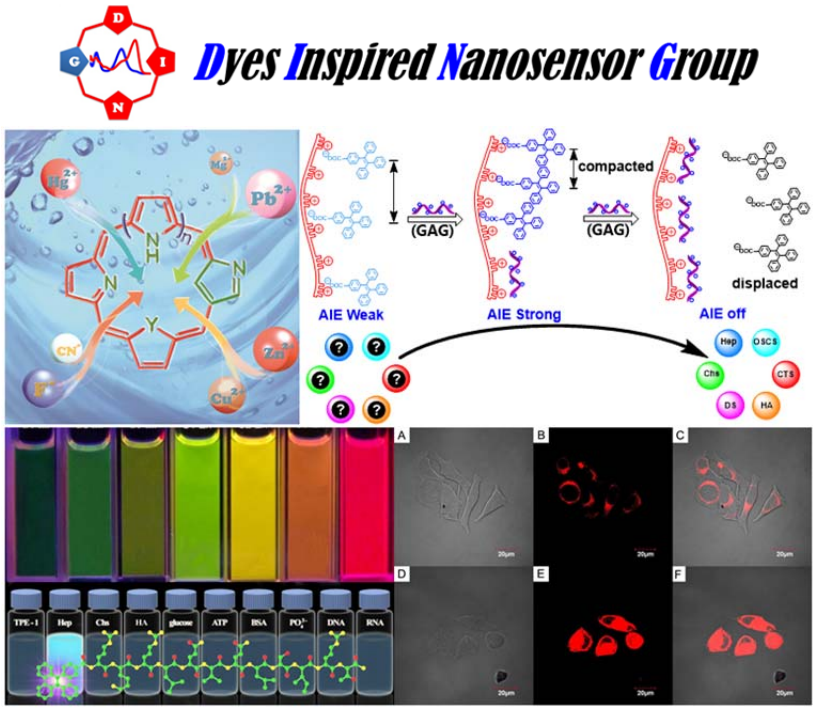
RESEARCH INTERESTS:

- Design and synthesis of functional organic molecules for sensing and imaging application
- Analytical methods for detection of toxic and biological species
- Dye chemistry



PROFESSIONAL EXPERIENCE:

2016-present, Associate Professor, Nanjing Agricultural University

2013-2016, Research Assistant Professor, Nanjing University

TEACHING:

- Course for undergraduates: Organic Chemistry, Chemistry Experiment I, Chemistry Experiment II, Organic Synthetic Chemistry Experiment.
- Co-authored book: Erkang Wang, **Yubin Ding**, Hui Wei, "Bionanosensing platforms for in vitro detection and diagnostics (Chapter 1)" in "Nanomaterials: emerging characteristics and biomedical applications" (Ed.:

Xiyun Yan), 2014, Science Press.

INTERNATIONAL CONFERENCE ACTIVITIES

[1] Jul. 15-20, 2018, *The Gordon Research Conference, Thiol-Based Redox Regulation and Signaling*, Castelldefels, Spain, poster report.

[2] Nov. 04-07，2016, *The 8th International Symposium on Photochromism 2016* (ISOP2016), Shanghai, Oral report.

[3] Sept. 15-17, 2015, *Faraday Discussion, Supramolecular Photochemistry*, Cambridge, UK, poster report, financially supported by the Gordon F. Kirkbright Bursary Award.

[4] May 16-22, 2015, *The Gordon Research Conference, Self-Assembly & Supramolecular Chemistry*, Barga, Italy, poster report.

PUBLICATIONS:

[25] Zhiyuan Cao (**17 级本科**), Weiyi Li, Huali Wan, Jingyi Zhou, Xue Jia, and **Yubin Ding***. ***Analytical Chemistry***, 2021, DOI: 10.1021/acs.analchem.1c03302.

[24] Dongmin Jia, Chen Yang, Weihua Zhang and **Yubin Ding***. Dyes inspired sensor arrays for discrimination of glycosaminoglycans. ***Dyes and Pigments***, 2021, 190, 109266.

[23] Meiting Hou[#] (**16 级本科**), Liangfei Fan[#], Xia Fan, Xin Liang, Weihua Zhang and **Yubin Ding***. Pyrene-porphyrin based ratiometric fluorescent sensor array for discrimination of glycosaminoglycans. ***Analytica Chimica Acta***, 2021, 1141, 214-220.

[22] Liangfei Fan, Dongmin Jia, Wei-Hua Zhang and **Yubin Ding***. Chemical sensors for selective and quantitative heparin sensing. ***Analyst***, 2020, 145, 7809-7824.

[21] Qizhao Li, Chengjie Li, Glib Baryshnikov, **Yubin Ding**, Chengxi Zhao, Tingting Gu, Feng Sha, Xu Liang, Weihua Zhu, Xinyan Wu, Hans Ågren, Jonathan L. Sessler* and Yongshu Xie*. Twisted-Planar-Twisted expanded porphyrinoid dimer as a rudimentary reaction-based methanol indicator. ***Nature Communications***, 2020, 11, 5289.

[20] Zhiyu Yang, Liangfei Fan, Xia Fan, Meiting Hou, Zhiyuan Cao, **Yubin Ding*** and Weihua Zhang. Porphyrin-GO Nanocomposites Based NIR Fluorescent Sensor Array for Heparin Sensing and Quality Control. ***Analytical Chemistry***, 2020, 92, 6727-6733.

[19] Zhiyuan Cao (**17 级本科**), Xia Fan, Zhiyu Yang, Xuebin Zhang, Ningxujin Ding, **Yubin Ding*** and Weihua Zhang. Solvent directed discrimination of metal ions using a coumarin-pyridine fluorescence receptor. ***Sensors and Actuators B: Chemical***, 2020, 127855.

[18] Zhiyu Yang, Xia Fan, Wenjing Cheng, **Yubin Ding*** and Weihua Zhang*. AIE Nanoassemblies for Discrimination of Glycosaminoglycans and Heparin Quality Control. ***Analytical Chemistry***, 2019, 91, 10295-10301.

[17] Wenjing Cheng, Yiting Xie, Zhiyu Yang, Yueqing Sun, Ming-Zhi Zhang, **Yubin Ding*** and Weihua Zhang*. General Strategy for in Situ Generation of a Coumarin-Cu^{2+} Complex for Fluorescent Water Sensing. ***Analytical Chemistry***, 2019, 91, 5817-5823.

[16] **Yubin Ding**. Organic Molecule Based Chemosensors for Biomedical Application. ***Current Medicinal Chemistry***, 2019, 26, 3921-3922 (Editorial).

[15] Yiting Xie[#] (**15 级本科**), Wenjing Cheng[#], Bing Jin, Chaogen Liang, **Yubin Ding*** and Weihua Zhang*. Solvent directed selective and sensitive fluorescence detection of target ions using a coumarin-pyridine probe. ***Analyst***, 2018, 143, 5583-5588.

[14] **Yubin Ding**, Shu Zhao, Qingqing Wang, Xiang Yu and Weihua Zhang*. Construction of a coumarin based fluorescent sensing platform for palladium and hydrazine detection. ***Sensors and Actuators B: Chemical***, 2018, 256, 1107-1113.

[13] Leilei Shi[#], Xin Li[#], Min Zhou, Faheem Muhammad, **Yubin Ding*** and Hui Wei*. An arylboronate locked fluorescent probe for hypochlorite. ***Analyst***, 2017, 142, 2104-2108.

[12] **Yubin Ding***, Min Zhou and Hui Wei*. A supercharged fluorescent protein based FRET sensing platform for detection of heparin contamination. ***Analytical Methods***, 2017, 9, 5593-5597.

[11] **Yubin Ding**, Wei-Hong Zhu and Yongshu Xie*. Development of Ion Chemosensors Based on Porphyrin Analogues. ***Chemical Reviews***, 2017, 117, 2203-2256.

[10] **Yubin Ding**, Yunyu Tang, Weihong Zhu and Yongshu Xie*. Fluorescent and colorimetric ion probes based on conjugated oligopyrroles. ***Chemical Society Reviews***, 2015, 44, 1101-1112.

[9] **Yubin Ding**, Leilei Shi and Hui Wei*. A "turn on" fluorescent probe for heparin and its oversulfated chondroitin sulfate contaminant. ***Chemical Science***, 2015, 6, 6361-6366.

[8] **Yubin Ding**, Leilei Shi and Hui Wei*. Protein-directed approaches to functional nanomaterials: a case study of lysozyme. ***Journal of Materials Chemistry B***, 2014, 2, 8268-8291.

[7] **Yubin Ding**, Xin Li, Jonathan P. Hill, Katsuhiko Ariga, Hans Ågren, Joakim Andréasson, Weihong Zhu, He Tian and Yongshu Xie*. Acid/Base Switching of the Tautomerism and Conformation of a Dioxoporphyrin for Integrated Binary Subtraction. ***Chemistry – A European Journal***, 2014, 20, 12910-12916.

[6] **Yubin Ding**, Xin Li, Tong Li, Weihong Zhu and Yongshu Xie*. α-Monoacylated and α,α'- and α,β'-Diacylated Dipyrrins as Highly Sensitive Fluorescence "Turn-on" Zn^{2+} Probes. ***The Journal of Organic Chemistry***, 2013, 78, 5328-5338.

[5] **Yubin Ding**, Tong Li, Xin Li, Weihong Zhu and Yongshu Xie*. From nonconjugation to conjugation: novel meso-OH substituted dipyrromethanes as fluorescence turn-on Zn^{2+} probes. ***Organic & Biomolecular Chemistry***, 2013, 11, 2685-2692.

[4] Yongshu Xie*, **Yubin Ding**, Xin Li, Cheng Wang, Jonathan P. Hill*, Katsuhiko Ariga, Weibing Zhang and Weihong Zhu. Selective, sensitive and reversible "turn-on" fluorescent cyanide probes based on 2,2'-dipyridylaminoanthracene-Cu^{2+} ensembles. ***Chemical Communications***, 2012, 48, 11513-11515.

[3] **Yubin Ding**, Tong Li, Weihong Zhu* and Yongshu Xie*. Highly selective colorimetric sensing of cyanide based on formation of dipyrrin adducts. ***Organic & Biomolecular Chemistry***, 2012, 10, 4201-4207.

[2] **Yubin Ding**, Weihong Zhu and Yongshu Xie*. Zinc Fluorescent Sensors with Receptors Derived from DPA. ***Progress in Chemistry***, 2011, 23, 2478-2488.

[1] **Yubin Ding**, Yongshu Xie*, Xin Li, Jonathan P. Hill*, Weibing Zhang and Weihong Zhu. Selective and sensitive "turn-on" fluorescent Zn^{2+} sensors based on di- and tripyrrins with readily modulated emission wavelengths. ***Chemical Communications***, 2011, 47, 5431-5433.