

姓名：张建新 出生年月：1980 年 11 月

技术职务：副教授 专业及学历：有机化学 博士

Email: zjx1980@126.com



教育情况：

- 2007年9月—2011年7月 北京大学 博士
- 2003年9月—2006年7月 南开大学 硕士
- 1999年9月—2003年7月 湖南师范大学 学士

工作情况：

- 2018年10月— 科罗拉多州立大学 访学
- 2017年12月— 天津工业大学 副教授
- 2012年9月—2017年12月 天津工业大学 讲师
- 2011年7月—2012年8月 隆德大学 博士后
- 2007年3月—2007年8月 天津炜杰科技有限公司 项目负责人
- 2006年7月—2007年1月 保诺(北京)科技有限公司 研发人员

项目情况：

	项目类别	项目名称	参与情况	完成情况
3	天津市教委高校发展计划项目	具有长寿命电荷分离态的富勒烯金属配合物的合成 (20130504)	主持	结题
2	国家自然科学基金青年项目	D- π -A 型富勒烯金属配合物的设计合成及性质研究 (21302138)	主持	结题
1	天津工业大学青年教师科研启动金	联二嘧啶桥连的双金属铈配合物的合成及性质研究	主持	结题

研究方向：

- 金属配合物的合成及性质研究
- 催化聚合反应研究
- 有机分离膜的制备及性能研究

发表论文:

1. **Jianxin Zhang**, Xiaoyi Zhang, Karina Suarez-Alcantara, Guy Jennings, Charles A. Kurtz, Max L. Lawson Daku, Sophie E. Canton, “Resolving the Ultrafast Changes of Chemically-Inequivalent Metal-Ligand Bonds in Photoexcited Molecular Complexes with Transient X-ray Absorption Spectroscopy”, (Submitted).
2. **Jianxin Zhang***, Yuancheng Liu, Pengfei Yu, “Bimetallic Ru(II)-Ir(III) Complexes with Bridging 2,2'-bipyrimidine: Synthesis, Structures and Characterization”, *J. Chin. Chem. Soc.* DOI: 10.1002/jccs.201800286.
3. **Jianxin Zhang***, Yuancheng Liu, Jun Wang, “Synthesis, Structures and Properties Studying of Co(II) and Zn(II) Coordination Polymers Based on 1,3-Dicarbo-Hydrazine Benzene”, *J. Chin. Chem. Soc.* **2018**, *65*, 1491-1494.
4. Cunming Liu, **Jianxin Zhang**, Max L. lawson Daku, David Gosztola, Sophie, E. Canton*, Xiaoyi Zhang*, “Probing the Impact of Solvation on Photoexcited Spin Crossover Complexes with High-precision X-ray Transient Absorption Spectroscopy”, *J. Am. Chem. Soc.* **2017**, *139*, 17518-17524.
5. **Jianxin Zhang***, Xia Yan, “Cd(II) complexes of 2,2':6',2''-Terpyridine Substituted at 4'-position with Thienyl Groups: Synthesis, Structures, Luminescence and Photocatalytic Activities”, *J. Chin. Chem. Soc.* **2017**, *64*, 1303-1307.
6. **Jianxin Zhang***, Xia Yan “Homoleptic Zn(II) Complexes Based on 4'-(2-thienyl)-terpyridine: Preparation, Structures, and Properties”, *Z. Anorg. Allg. Chem.* **2017**, *643*, 398-402.
7. Xia Yan, **Jianxin Zhang*** “Copper(II) Complexes Based on 4'-R-terpyridine: Synthesis, Structures, and Photocatalytic Properties”, *Chem. Res. Chin. Univ.* **2017**, *33*, 1-6.
8. Fengqin Wang*, Zongchao Yu, Chengmiao Wang, Keheng Xu, Jianguo Yu, **Jianxin Zhang**, Yiyuan Fu, Xiuyu Li, Yongnan Zhao, “A Multifunctional Metal-organic Framework Showing Excellent Fluorescence Sensing and

- Sensitization”, *Sensors and Actuators, B: Chemical* **2017**, 239, 688-695.
9. Keheng Xu, Fengqin Wang*, Shuo Huang, Zongchao Yu, **Jianxin Zhang**, Jianguo Yu, Haiyan Gao, Xiuyu Li, Yongnan Zhao, “Selective Fluorescence Detection of Anilines and Fe³⁺ Ions by Two Lanthanide Metal-organic frameworks”, *RSC Adv.* **2016**, 6, 91741-91747.
 10. **Jianxin Zhang**, Mátyás Pápai, Adreas Hirsch, Guy Jennings, Charles. S. Kurtz, Klaus B. Møller, Reiner Lomoth, David Gosztola, Xiaoyi Zhang*, Sophie, E. Canton*, “Elucidating the Ultrafast Dynamics of Photoinduced Charge Separation in Metalloporphyrin-Fullerene Dyads Across the Electromagnetic Spectrum”, *J. Phys. Chem. C* **2016**, 120, 19537-19546.
 11. Elisa Biasin, Tim Brandt van Driel, Kasper S. Kjær, Asmus O. Dohn, Morten Christensen, Tobias Harlang, Pavel Chabera, Yizhu Liu, Jens Uhlig, Mátyás Pápai, Zoltán Nemeth, Robert Hartsock, Winnie Liang, **Jianxin Zhang**, Roberto Alonso-Mori, Matthieu Chollet, James M. Glowacki, Silke Nelson, Dimosthenis Sokaras, Tadesse Assefa, Alexander Britz, Andreas Galler, Wojciech Gawelda, Christian Bressler, Kelly J. Gaffney, Henrik T. Lemke, Klaus B. Møller, Martin M. Nielsen, Villy Sundström, György Vankó, Kenneth Wärnmark, Sophie E. Canton, and Kristoffer Haldrup, “Femtosecond X-ray Scattering Study of Ultrafast Photoinduced Structural Dynamics in Solvated [Co(terpy)₂]²⁺”, *Phys. Rev. Lett.* **2016**, 117, 013002(6).
 12. Xiaoyi Zhang*, Mátyás Pápai, Klaus B. Møller, **Jianxin Zhang**, Sophie, E. Canton “Characterizing the Solvated Structure of Photoexcited [Os(terpy)₂]²⁺ with X-ray Transient Absorption Spectroscopy and DFT Calculation”, *Molecules* **2016**, 21, 235-243.
 13. Sophie. E. Canton, Xiaoyi Zhang, Yizhu Liu, **Jianxin Zhang**, Mátyás Pápai, Alice Corani, Grigory Smolentsev, K. Attenkofer, Fei Li, Tobias Harlang, D. Vithanage, Pavel Chabera, Amélie Bordage, Licheng Sun, Sascha Ott, Guy Jennings, Amanda Smeigh, A Kurtz, Kenneth Wärnmark, Villy Sundström* “Watching the Dynamics of Electrons and Atoms at Work in Solar Energy Conversion”, *Faraday Discussions* **2015**, 185, 51-68.

14. Sophie E. Canton*, Kasper S. Kjar*, György Vankó*, Tim B. van Driel, Shin-inchi Adachi, Amélie Bordage, Christian Bressler, Pavel Chabera, Morten Christensen, Asmus O. Dohn, Andreas Galler, Wojciech Gawelda, David Gosztola, Kristoffer Haldrup, Tobias Harlang, Yizhu Liu, Klaus B. Møller, Zoltán Németh, Shunsuke Nozawa, Mátyás Pápai, Tokushi Sato, Takahiro Sato, Karina Suarez-Alcantara, Tadashi Togashi, Kensuke Tono, Jens Uhlig, Dimali A. Vithanage, Kenneth Wärnmark, Makina Yabashi, **Jianxin Zhang**, Villy Sundström*, Martin M. Nielsen* “Visualizing the Nonequilibrium Dynamics of Photoinduced Intramolecular Electron Transfer with Femtosecond X-ray Pulses”, *Nature Commun.*, **2015**, *6*, 6359.
15. Yizhu Liu, Kasper S. Kjar, Lisa A. Fredin, Pavel Chabera, Tobias Harlang, Sophie E. Canton, Sven Lidin, **Jianxin Zhang**, Reiner Lomoth, Larl-Erik Berqvist, Petter Persson, Kenneth Wärnmark*, Villy Sundström* “A Hetero-leptic Ferrous Complex with Mesoionic Bis(1,2,3-triazol-5-ylidene) Ligands : Taming the MLCT Excited State of Fe^{II}”, *Chem. Eur. J.* **2015**, *21*, 3628-3639.
16. Xiaoyi Zhang, Latévi M. Lawson Daku, **Jianxin Zhang**, Karina Suarez, Guy Jennings, Charles A. Kurtz, Santiago Alvarez, Sophie E. Canton* “Dynamic Jahn-Teller Effect in the Metastable High-Spin State of Solvated [Fe(terpy)₂]²⁺”, *J. Phys. Chem. C* **2015**, *119*, 3312-3321.
17. Sophie E. Canton*, Xiaoyi Zhang, Latévi M. Lawson Daku, Yizhu Liu, **Jianxin Zhang**, Santiago Alvarez, “Mapping the Ultrafast Changes of Continuous Shape Measures in Photoexcited Spin Crossover Complexes without Long-Range Order”, *J. Phys. Chem. C* **2015**, *119*, 3322-3330.
18. Sophie E. Canton*, Xiaoyi Zhang*, Latévi M. Lawson Daku, Amanda L. Smeigh, **Jianxin Zhang**, Yizhu Liu, Carl-Johan Wallentin, Klaus Attenkofer, Guy Jennings, Charles A. Kurtz, David J. Gosztola, Kenneth Wärnmark, Andreas Hauser, Villy Sundström* “Probing the Anisotropic Distortion of Photoexcited Spin Crossover Complexes with Picosecond X-Ray Absorption Spectroscopy”, *J. Phys. Chem. C* **2014**, *118*, 4536-4545.
19. Sophie E. Canton*, Xiaoyi Zhang*, **Jianxin Zhang**, Tim B. van Driel, Kasper S.

- Kjaer, Kristoffer Haldrup, Pavel Chabera, Tobias Harlang, Karina Suarez-Alcantara, Yizhu Liu, Jorge Pérez, Amélie Bordage, Mátyás Pápai, György Vankó, Guy Jennings, Charles A. Kurtz, Mauro Rovezzi, Pieter Glatzel, Grigory Smolentsev, Jens Uhlig, Asmus O. Dohn, Morten Christensen, Andreas Galler, Wojciech Gawelda, Christian Bressler, Henrik T. Lemke, Klaus B. Møller, Martin M. Nielsen, Reiner Lomoth, Kenneth Wärnmark, Villy Sundström*, “Towards Highlighting the Ultrafast Electron Transfer Dynamics at the Optically-Dark Sites of Photocatalysts”, *J. Phys. Chem. Lett.* **2013**, *4*, 1972-1976.
20. Nana Xin, Xiaobing Yang, Zishou Zhou, **Jianxin Zhang**, Showxin Zhang, Liangbing Gan*, “Synthesis of C₆₀(O)₃: An Open-cage Fullerene with a Ketolactone Moiety on the Orifice”, *J. Org. Chem.* **2013**, *78*, 1157-1162.
21. Nana Xin, Huan Huang, **Jianxin Zhang**, Zhifei Dai, Liangbing Gan*, “Fullerene Doping: Preparation of Azafullerene C₅₉NH and Oxafulleroids C₅₉O₃ and C₆₀O₄”, *Angew. Chem. Int. Ed.* **2012**, *51*, 6163-6166.
22. **Jianxin Zhang**, Fudong Wang, Nana Xin, Dazhi Yang, Liangbing Gan*, “Preparation of Ketalactone and Bis lacton [60]Fullerene Derivatives and Their Conversion to Open-cage Fullerenes with a 12 or 15-atom Orifice”, *Eur. J. Org. Chem.* **2011**, 5366-5373.
23. **Jianxin Zhang**, Nana Xin, Liangbing Gan*, “Bromination-mediated Regio selective Preparation of Cyclopentadienyl-type [60]Fullerene Derivatives with Alkoxy, Peroxy, and Bromo or Hydro Addends”, *J. Org. Chem.* **2011**, *76*, 1735-1741.
24. **Jianxin Zhang**, Dazhi Yang, Zuo Xiao, Liangbing Gan*, “The Chemistry of Open-cage Fullerene, Hydroxylamine Mediated Hole-closing and -opening Reactions”, *Chin. J. Chem.* **2010**, *28*, 1673-1677.
25. Dazhi Yang, Lijun Shi, Huan Huang, **Jianxin Zhang**, Liangbing Gan*, “Synthesis and Reactivity of “H-pyran Moiety in [60]Fullerene Cage Skeleton”, *J. Org. Chem.*, **2010**, *75*, 4567-4573.
26. Jiayao Yao, Zuo Xiao, **Jianxin Zhang**, Xiaobing Yang, Liangbing Gan*, Wenxiong Zhang, “Switched Role of Fullerene in the Diels–Alder Reaction:

Facile Addition of Dienophiles to the Conjugated Fullerene Diene Moiety”, *Chem. Commun.* **2009**, 401-403.

27. Xu Li, Jie Han*, Meili Pang, Yong Chen, **Jianxin Zhang**, Hong Ma, Zhengjie He, Jiben Meng*, “New Photo-responsive Unit of Biindenylidene with TEMPO Radical Substituents”, *Tetrahedron Lett.* **2007**, 48, 6044–6047.