

个人简历-曾望东

National University of Singapore
Department of Chemistry
S9-03-08, 3 Science Drive 3
117543, Singapore
Tel: +65 86728420
E-mail: chmzewa@nus.edu.sg



个人信息

性别: 男

出生年月: 1985 年10 月

教育信息:

2011.01 – 2015.01 博士, 新加坡国立大学。导师: 吴继善(终身教授, 学院副院长)

2007.09 – 2010.06 硕士, 中南大学。导师: 潘春跃, 王鹏(万人计划, 国家杰青)

2003.09 – 2007.06 学士, 湖南科技大学。导师: 易平贵

研究经历:

2015.01 – 至今 博士后, 新加坡国立大学科学院

2008.07 – 2010.07 研究助理, 中国科学院长春应用化学研究所高分子物理与化学国家重点实验室

科研业绩简介:

在*Chem*、*J. Am. Chem. Soc.*、*Angew. Chem. Int. Ed.*、*Chem. Sci.*、*Chem. Mater.*、*Chem. Comm.*等著名国际期刊共发表学术论文**41**篇, 全部为SCI检索。其中“ESI高被引论文”**1**篇, “封面文章”**3**篇, “VIP文章”**2**篇。根据SSCI/SCI(Web of Knowledge)检索数据库, 单篇论文引用次数高达**783**次。根据Google学术搜索引擎, 总被引次数**2024**次, H指数为**17**, i10指数为**21**。单篇最高被引次数**912**次。其中以第一作者的身份发表了***Angew. Chem. Int. Ed.*, 2019, 58, 14467–14471 (VIP文章, 共一)**、***J. Am. Chem. Soc.*, 2018, 140, 43, 14054–14058 (封面文章, JACS Spotlight)**、***Chem*, 2017, 2, 81–92 (封面文章, Highlighted by Chem)**、***Angew. Chem. Int. Ed.*, 2016, 55, 8816–8819 (VIP文章, Highlight by Angew.)**、***Chem. Mater.*, 2010, 22, 5, 1915–1925 (ESI高被引论文, 引用次数: 912次)**等SCI检索文章**13**篇, 现有研究工作已经得到了世界同行的认可, 且多次参加在美国, 日本, 新加坡, 中国等国家地区的学术会议。已获得中国授权专利**2**项, 美国专利**1**项。

研究兴趣:

设计、合成以及表征各类新的共轭有机材料以及磁性材料。

主要参与的科研项目：

1. 973 项目课题 (研究骨干, 2007 年 – 2011 年, 已结题)
2. 中科院“百人计划”项目 (研究骨干, 2007 年 – 2012 年, 已结题)
3. 中科院知识创新工程重要方向性项目课题 (研究骨干, 2009 年 – 2011 年, 已结题)
4. Open-shell polycyclic hydrocarbons for electronics, photonics and spintronics (研究骨干, 5000 万 2015 – 2020, 新加坡基金)
5. Stable pi-radicals as new charge and spin transporting materials. (研究骨干, 375 万, 2015 – 2020, 新加坡基金)
6. Porphyrin-based NIR dyes for high-efficient solar cells. (研究骨干, 325 万, 2011 – 2015, 新加坡基金)

发表文章及专利简介：

1. **Wangdong Zeng**, Jishan Wu*, *Push-pull type quinoidal perylene showing solvent polarity dependent diradical character and negative solvatochromism*, **Mater. Chem. Front.**, **2019** (Just accepted, DOI: 10.1039/C9QM00566H, 材料领域新刊, 即时影响因子 7.0 左右).
2. Paula Mayorga Burrezo^(#), **Wangdong Zeng** ^(#), Michael Moos, Marco Holzapfel, Sofia Canola, Fabrizia Negri*, Concepció Rovira, Jaume Veciana, Hoa Phan, Jishan Wu*, Christoph Lambert, Juan Casado*, *Perylene π -Bridges Equally Delocalize Anions and Cations: Proportioned Quinoidal and Aromatic Content*, **Angew. Chem. Int. Ed.**, **2019**, 58, 14467–14471. (VIP Paper, (#) 共同一作, 影响因子: 12.25, 分区: Q1)
3. **Wangdong Zeng**, Tullimilli Y. Gopalakrishna, T. Tanaka, Tun Seng Herng, Jun Ding, A. Osuka, Jishan Wu*, *Super-octazethrene: An Open-shell Graphene-Like Molecule Possessing Large Diradical Character but Still with Reasonable Stability*, **J. Am. Chem. Soc.**, **2018**, 140, 43, 14054–14058. (Cover and highlighted as JACS Spotlight, **J. Am. Chem. Soc.**, **2018**, 140, 44, 14527–14527, 影响因子: 14.69, Q1)
4. **Wangdong Zeng**, Yongseok Hong, Samara Medina Rivero, Jinseok Kim, José L. Zafra, Hoa Phan, Tullimilli Y. Gopalakrishna, Tun Seng Herng, Jun Ding, Juan Casado*, Dongho Kim*, Jishan Wu*, *Stable Nitrogen-centered Bis(imino)rylene Diradicaloids*, **Chem, Eur. J.**, **2018**, 19(24), 4944–4951. 影响因子 5.16, 分区: Q1)
5. **Wangdong Zeng**, Hoa Phan, Tun Seng Herng, Tullimilli Y. Gopalakrishna, Naoki Aratani, Zebing Zeng, Hiroko Yamada, Jun Ding and Jishan Wu*, *Rylene Ribbons with Unusual Diradical Character*, **Chem**, **2017**, 2, 81–92. (Cover and highlighted by **Chem**, **2017**, 2, 11–12). (影响因子: 18.20, 分区: Q1)
6. Jian Zeng, **Wangdong Zeng***, Heping Zeng*, *In situ plasmonic Au nanoparticle anchored nickel ferrite: An efficient plasmonic photocatalyst for fluorescein-sensitized hydrogen evolution under visible light irradiation*, **J. Solid State Chem.**, **2017**, 253, 294–304. (影响因子: 2.27, 分区: Q2)
7. **Wangdong Zeng**, Qibiao Qi, Jishan Wu*, *Toward Long Rylene Ribbons and Quinoidal Rylene Diradicaloids*, **Eur. J. Org. Chem.**, **2018**, 1, 7–11. Cover. (影响因子: 3.03, 分区: Q2)
8. **Wangdong Zeng**, Zhe Sun, Tun Seng Herng, Théo P. Gonçalves, Kuo-Wei Huang, Jun Ding, Jishan Wu*, *Super-heptazethrene*, **Angew. Chem. Int. Ed.**, **2016**, 55 (30), 8615–8619. (VIP Paper and Highlighted by Hinkel, F., Freudenberg, J. and Bunz, U. H. F., **Angew. Chem. Int. Ed.**, **2016**, 55, 9830–9832). 影响因子: 12.25, 分区: Q1。
9. **Wangdong Zeng**, Sangsu Lee, Minjung Son, Minjung Son, Ko Furukawa, Pan Hu, Zhe Sun, Dongho Kim*, Jishan Wu*, *Phenalenyl-fused porphyrins with different ground states*, **Chem. Sci.**, **2015**, 6, 2427–2433. 影响因子: 9.56, 分区: Q1。

10. **Wangdong Zeng**, Qibiao Qi, Jishan Wu*, *Cyclopenta-fused perylene: a new soluble, stable and functionalizable perylene building block*, **Sci. Bull.**, **2015**, 60 (14), 1266–1271. 影响因子: 6.22, 分区: Q1。
11. **Wangdong Zeng**, Masatoshi Ishida, Sangsu Lee, Young Mo Sung, Zebing Zeng, Yong Ni, Chunyan Chi, Dongho Kim*, Jishan Wu*, *A p-Quinodimethane-Bridged Porphyrin Dimer*, **Chem. Eur. J.**, **2013**, 19 (49), 16814. 影响因子: 5.16, 分区: Q1。
12. **Wangdong Zeng**, Byung Sun Lee, Young Mo Sung, Kuo-Wei Huang, Yuan Li, Dongho Kim*, Jishan Wu*, *Tetrakis(4-tert-butylphenyl) substituted and fused quinoidal porphyrins*. **Chem. Commun.**, **2012**, 48 (62), 7684. 影响因子: 6.16, 分区: Q1。
13. **Wangdong Zeng**, Yiming Cao, Yu Bai, Yinghui Wang, Yushuai Shi, Min Zhang, Fangfang Wang, Chunyue Pan, Peng Wang*, *Efficient Dye-Sensitized Solar Cells with an Organic Photosensitizer Featuring Orderly Conjugated Ethylenedioxythiophene and Dithienosilole Blocks*, **Chem. Mater.**, **2010**, 22 (5), 1915–1925. (ESI 高被引论文, 引用次数: 912 次) 影响因子: 10.16, 分区: Q1。
14. Yong Ni, **Wangdong Zeng**, Kuo-Wei Huang*, Jishan Wu*. Benzene-fused BODIPYs: synthesis and the impact of fusion mode, **Chem. Commun.**, **2013**, 49, 1217.
15. Qingbiao Qi, Xingzhu Wang, Li Fan, Bin Zheng, **Wangdong Zeng**, Jie Luo, Kuo-Wei Huang, Jishan Wu*, *N-Annulated Perylene-Based Push-Pull-Type Sensitizers*, **Org. Lett.**, **2015**, 17, 724–727.
16. Jie Luo, Sangsu Lee, Minjung Son, Bin Zheng, Kuo-Wei Huang, Qingbiao Qi, **Wangdong Zeng**, Gongqiang Li, Dongho Kim*, Jishan Wu*, *N-Annulated Perylene-Substituted and Fused Porphyrin Dimers with Intense Near-Infrared One-Photon and Two-Photon Absorption*. **Chem. Eur. J.**, **2015**, 21, 3708–3715.
17. Ding Luo, Sangsu Lee, Bin Zheng, Zhe Sun, **Wangdong Zeng**, Kuo-Wei Huang, Ko Furukawa*, Dongho Kim*, Richard D Webster*, Jishan Wu*, *Indolo[2,3-b]carbazoles with Tunable Ground States: How Clar's Aromatic Sextet Determines The Singlet Biradical Character*, **Chem. Sci.**, **2014**, 5, 4944–4952
18. Soumyajit Das, Sangsu Lee, Minjung Son, Xiaojian Zhu, Wenhua Zhang, Bin Zheng, Pan Hu, Zebing Zeng, Zhe Sun, **Wangdong Zeng**, Run-Wei Li, Kuo-Wei Huang*, Jun Ding*, Dongho Kim*, Jishan Wu*, *para-Quinodimethane-bridged perylene dimers and pericondensed quaterrylenes: the effect of the fusion mode on the ground states and physical properties*, **Chem. Eur. J.**, **2014**, 20 (36), 11410.
19. Jie Luo, Mingfei Xu, Renzhi Li, Kuo-Wei Huang, Changyun Jiang, Qingbiao Qi, **Wangdong Zeng**, Jie Zhang, Chunyan Chi, Peng Wang*, Jishan Wu*, *N-Annulated Perylene as An Efficient Electron Donor for Porphyrin-based Dyes: Enhanced Light-Harvesting Ability and High-efficiency Co(II/III)-based Dye-Sensitized Solar Cells*, **J. Am. Chem. Soc.**, **2014**, 136 (1), 265.
20. Zebing Zeng, Masatoshi Ishida, Jose L Zafra, Xiaojian Zhu, Young Mo Sung, Nina Bao, Richard D Webster, Byung Sun Lee, Run-Wei Li, **Wangdong Zeng**, Yuan Li, Chunyan Chi, Juan Teodomiro López Navarrete, Jun Ding*, Juan Casado*, Dongho Kim*, Jishan Wu*, *Pushing Extended p-Quinodimethanes to The Limit: Stable Tetracyano-Oligo(N-annulated Perylene)quinodimethanes with Tunable Ground States*, **J. Am. Chem. Soc.**, **2013**, 135 (16), 6363.
21. Zebing Zeng, Young Mo Sung, Nina Bao, Davin Tan, Richmond Lee, José L Zafra, Byung Sun Lee, Masatoshi Ishida, Jun Ding, Juan T López Navarrete, Yuan Li, **Wangdong Zeng**, Dongho Kim*, Kuo-Wei Huang*, Richard D. Webster*, Juan Casado*, Jishan Wu*, *Stable Tetrabenzo-Chichibabin's Hydrocarbons: Tunable Ground State and Unusual Transition between Their Closed-Shell and Open-Shell Resonance Forms*, **J. Am. Chem. Soc.**, **2012**, 134 (35), 14513.
22. Peng Wang*, Yupeng Wang, Ning Cai, **Wangdong Zeng**, Mingfei Xu, Jingyuan Liu, Organic dyes and preparation method thereof and dye-sensitized solar cells. US20120138133.

参加学术会议及邀请报告简介

- 1 ICMAT 2017- 9th International Conference on Materials for Advanced Technologies, June 18–23 July 2017 / Singapore. (**Best Poster Award**)
- 2 ICMAT 2015- 8th International Conference on Materials for Advanced Technologies, June 03–July 2015 / Singapore. (**Best Poster Award**)
- 3 2015 International Chemical Congress of Pacific Basin Societies , December 15–20, 2015, Honolulu, Hawaii, **USA**. PAPER TITLE: Phenalenyl-fused porphyrin biradicaloids.
- 4 Department of Chemistry, Graduate School of Science, Tohoku University, Aramaki 6-3, Aobaku, Sendai 980-8578, **Japan**. (**Invited talk**)
- 5 IUMRS-ICEM 2016, International Union of Materials Research Societies-International Conference on Electronic Materials, 04 to 08 July, 2016, Suntec, **Singapore**.