

个人简介 | Associate Professor Dr. Zhe Wang (王喆 副教授)

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本科毕业于苏州大学, 博士毕业于新加坡国立大学。2021 年 7 月回到广东工业大学轻工化工学院任教前已在新加坡、日本留学工作 14 年多。曾留学工作于日本京都大学、新加坡国立大学、新加坡南洋理工大学和新加坡 A*STAR 科研局材料工程研究所。理科与工科背景相结合, 博士毕业后一直从事相关领域尤其是基础有机合成化学的研究, 已发表国际高水平学术论文 17 篇(化学领域知名国际 SCI 期刊) *Angew. Chem. Int. Ed.*; *Coord. Chem. Rev.*; *Chem. Sci.*; *Organometallics*; *Chem. Comm.*; *Dalton Trans.*; *J. Org. Chem.*; 以第一作者身份发表 10 篇, 其中 *Angew. Chem. Int. Ed.* 第一作者论文被国际著名的化学评论期刊 *SYNFACTS* 杂志评为亮点文章。在开展研究工作的同时, 也具备相关教学, 科研指导和实验室管理经验。在新加坡 A*STAR 科研局材料工程研究所期间, 担任 hybrid 材料实验室负责人, 参与了该实验室的组建和管理运行工作。自研究生学习及后来研究员任职期间, 担任助教或指导老师, 参与并指导了研究生的科研和本科生的实验和专业教学工作。

教育经历

2009 - 2015 博士, 新加坡国立大学 (NUS), 化学 (导师: Prof. Andy Hor)
2007 - 2009 硕士, 新加坡国立大学 (NUS), 化学 (导师: Prof. Andy Hor)
2004 - 2008 学士, 苏州大学, 环境工程

工作经历

2021 - 至今 副教授 广东工业大学 Keiji Maruoka 教授研究组
2019 - 2021 博士后 日本京都大学 (导师: Prof. Keiji Maruoka)
2016 - 2019 博士后 新加坡南洋理工大学 (NTU) (导师: Prof. Tamio Hayashi)
2014 - 2016 研究员 新加坡 A*STAR 科研局材料工程研究所 (IMRE)

CURRICULUM VITAE

Personal

Name: Zhe Wang (王喆)
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Education

2009–2015 Ph.D. (Organometallic Chemistry) **National University of Singapore (NUS)**, Singapore (Advisor: Prof. Andy Hor)

2007–2009 M.Sc. (Chemistry) **National University of Singapore (NUS)**, Singapore (Advisor: Prof. Andy Hor)

2004–2008 B. Eng. (Environmental Engineering), **Soochow University**, China

Research and Professional Experience

2021–To date Associate Professor School of Chemical Engineering and Light Industry, Guangdong University of Technology, Guangzhou, China. (Prof. Keiji Maruoka's group)

2019–2021 Postdoctoral Fellow
Kyoto University, Kyoto, Japan.
(Advisor: Prof. Keiji Maruoka)

2016–2019 Research Fellow
Nanyang Technological University (NTU), Singapore
(Advisor: Prof. Tamio Hayashi)

2014–2016 Scientist
A*STAR Institute of Materials Research and Engineering, Singapore

LIST OF PUBLICATIONS 学术论文详情

- 1) **Wang, Z.**; Matsumoto, A.; Maruoka, K. "Efficient Cleavage of Tertiary Amide Bonds via Radical-Polar Crossover Using a Copper(II) Bromide/Selectfluor Hybrid System", *Chem. Sci.* **2020**, *11*, 12323.
- 2) **Wang, Z.**; Xue, F.; Hayashi, T. "Synthesis of Arylacetaldehydes by Iridium-Catalyzed Arylation of Vinylene Carbonate with Arylboronic Acids", *Angew. Chem. Int. Ed.* **2019**, *58*, 11054.
- 3) **Wang, Z.**; Hayashi, T. "Rhodium-Catalyzed Enantioselective Hydroarylation of Divinylphosphine Oxides with Aryl Boroxines", *Angew. Chem. Int. Ed.* **2018**, *57*, 1702. (Highlighted by *Synfacts* **2018**, *14*, 0402.)
- 4) **Wang, Z.**⁺; Song, X.⁺; Jiang, L.; Lin, T. T.; Schreyer, M. K.; Zhao, J.; Hor, T. S. A. "Seven Coordinate Mo^{II}-Diiodo Complexes with Benzothiazole- N-Heterocyclic-Carbene Ligands and Their Mo⁰ Precursors: Synthesis, Structures, and Catalytic Application in the Epoxidation of cis-Cyclooctene" *Asian J. Org. Chem.* **2018**, *7*, 395. (⁺contributed equally)
- 5) **Wang, Z.**; Jiang, L.; Ng, C. K.; Song, X.; Hor, T. S. A.; Zhao, J. "Isolation and Crystallographic Identification of Photoactive Pt^{II} Tris- and Bis(N-methylbenzimidazole-NHC) Complexes" *Eur. J. Inorg. Chem.* **2018**, 4338.
- 6) **Wang, Z.**; Jiang, L.; Mohamed, D. K. B.; Zhao, J.; Hor, T. S. A. "N-heterocyclic carbene complexes of Group 6 metals" *Coord. Chem. Rev.* **2015**, *293-294*, 292.
- 7) **Wang, Z.**; Li, S.; Teo, W. J.; Poh, Y. T.; Zhao, J.; Hor, T. S. A. "Synthesis and Characterization of Molybdenum (0) and Tungsten (0) carbonyl N-Heterocyclic Carbene Complexes and Their Application in Olefin Epoxidation", *J. Organomet. Chem.* **2015**, *775*, 188.
- 8) **Wang, Z.**; Ng, S. W. B.; Jiang Lu.; Leong, W. J. Zhao, J.; Hor, T. S. A. "Cyclopentadienyl Molybdenum(II) N,C-Chelating Benzothiazole-Carbene Complexes: Synthesis, Structure, and its Application in Cyclooctene Epoxidation Catalysis." *Organometallics* **2014**, *33*, 2457.
- 9) **Wang, Z.**; Jiang, L.; Liu, Z.-P.; Gan, C. R. R.; Liu, Z.; Zhang, X.-H.; Zhao, J.; Hor, T. S. A. "Facile formation and redox of benzoxazole-2-thiolate-bridged dinuclear Pt(II/III) complexes", *Dalton Trans.* **2012**, *41*, 12568.
- 10) **Wang, Z.**; Kee, C. W.; Li, S.; Hor, T. S. A.; Zhao, J. "Aqueous phenol oxidation catalysed by molybdenum and tungsten carbonyl complexes", *Appl. Catal., A*, **2011**, *393*, 269.
- 11) Matsumoto, A.; **Wang, Z.**; Maruoka, K. *J. Org. Chem.* **2021**, *86*, 5401.
- 12) Jiang, L.; **Wang, Z.**; Bai, S.-Q.; Loh, X. J.; Hor, T. S. A. "Novel M(II) (M = Mn, Fe, Co, Ni) coordination assemblies based on 2-(((1-(pyridin-n-ylmethyl)-1H-1,2,3-triazol-4-yl)methyl)thio)pyridine ligands", *Aust. J. Chem.*, **2016**, *69*, 645.
- 13) Teo, W. J.; **Wang, Z.**; Xue, F.; Hor, T. S. A.; Zhao J. "Cyclopentadienyl nickel(II) N,C-chelating benzothiazolyl NHC complexes: synthesis, characterization and application in catalytic C–C bond formation reactions" *Dalton Trans.*, **2016**, *45*, 7312.
- 14) Song, X.; **Wang, Z.**; Zhao, J.; Hor, T. S. A. "Sodium cubane and double-cubane

aggregates of hybridised salicylaldimines and their transmetallation to nickel for catalytic ethylene oligomerisation”, *Chem. Commun.* **2013**, *49*, 4992.

- 15) Jiang, L.; **Wang, Z.**; Bai, S.-Q.; Hor, T. S. A. ““Click-and-click” – hybridised 1,2,3- triazoles supported Cu(I) coordination polymers for azide alkyne cycloaddition”, *Dalton Trans.* **2013**, *42*, 9437.
- 16) Jiang, L.; **Wang, Z.**; Bai, S.-Q.; Hor, T. S. A. “Tuning the Zn(II) coordination assembly by adjusting the spacers of 2-pyridylthiomethyl functionalized 1,2,3- triazoles”, *CrystEngComm* **2013**, *15*, 10451.
- 17) Li, S.; **Wang, Z.**; Hor, T. S. A.; Zhao, J. “First crystallographic elucidation of a high valent molybdenum oxo N-heterocyclic carbene complex $[\text{CpMoVIO}_2(\text{IBz})_2][\text{Mo}_6\text{O}_{19}]$ ”, *Dalton Trans.* **2012**, *41*, 1454.