



## 李萍

环境工程系 副教授

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### 基本情况

李萍，博士，“百人计划”人才引进副教授。

欢迎环境、材料、化学、物理等学科感兴趣的本科生、硕士、博士、博士后与专职科研人员加盟。

### 联系方式

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### 教育及工作经历

1. 2018/04-至今，中山大学，环境科学与工程学院，“百人计划”副教授
2. 2014/11-2018/03，新加坡国立大学，化学工程与生物工程系，博士后
3. 2014/08-2014/10，中国科学院化学研究所，研究助理
4. 2009/09-2014/07，中国科学院化学研究所，物理化学，博士
5. 2005/09-2009/07，西南大学，应用化学，学士

### 讲授课程

环境化工原理

环境工程CAD



## 研究领域

1. 新型环境/能源材料的精细设计与调控制备
2. 环境催化
3. 能源催化
4. CO<sub>2</sub>捕集与资源化利用

## 科研项目

- 国家自然科学基金面上项目, 2021-2024, 主持
- 国家自然科学基金青年项目, 2021-2023, 主持
- 广东省自然科学基金面上项目, 2021-2023, 主持
- 广州市科技计划一般项目, 2021-2023, 主持
- 中山大学青年教师培育项目, 2019-2021, 主持
- 中山大学“百人计划”引进人才项目, 2018-2021, 主持

## 代表性研究成果 (一作/通讯)

1. **Ping Li**, Wen Liu, John S. Dennis, Hua Chun Zeng\*; Ultrafine Alloy Nanoparticles Converted from 2D Intercalated Coordination Polymers for Catalytic Application, **Advanced Functional Materials**, 2016, 26: 5658-5668.
2. **Ping Li**, Hua Chun Zeng\*; Sandwich-Like Nanocomposite of CoNiOx/Reduced Graphene Oxide for Enhanced Electrocatalytic Water Oxidation, **Advanced Functional Materials**, 2017, 27: 1606325.
3. **Ping Li**, Hua Chun Zeng\*; Hierarchical Nanocomposite by the Integration of Reduced Graphene Oxide and Amorphous Carbon with Ultrafine MgO Nanocrystallites for Enhanced CO<sub>2</sub> Capture, **Environmental Science & Technology**, 2017, 51: 12998-13007.
4. **Ping Li\***, Ran Chen, Yuqi Huang, Wenqin Li, Shien Zhao, Shuanghong Tian; Activating transition metal via synergistic anomalous phase and doping engineering towards enhanced dehydrogenation of ammonia borane, **Applied Catalysis B: Environmental**, 2022, 300: 120725.
5. **Ping Li\***, Yunan Lin, Quhua Huang, Wenqin Li, Shien Zhao, Yi Fu, Feng Chu, Shuanghong Tian\*; Coordination environment and architecture engineering over Co<sub>4</sub>N-based nanocomposite for accelerating advanced oxidation processes, **Applied Catalysis B: Environmental**, 2022, 302: 120850.
6. **Ping Li\***, Yunan Lin, Shien Zhao, Yi Fu, Wenqin Li, Ran Chen, Shuanghong Tian\*; Defect-engineered Co<sub>3</sub>O<sub>4</sub> with porous multishelled hollow architecture enables boosted advanced oxidation processes, **Applied Catalysis B: Environmental**, 2021, 298: 120596.
7. **Ping Li\***, Ran Chen, Shien Zhao, Wenqin Li, Yunan Lin, Yu Yu\*; Architecture Control and Electronic Structure Engineering over Ni-Based Nitride Nanocomposite for Boosting Ammonia Borane Dehydrogenation, **Applied Catalysis B: Environmental**, 2021, 298: 120523.
8. **Ping Li\***, Wenqin Li, Shien Zhao, Yuqi Huang, Shuanghong Tian, Xiongfei Huang\*; Advanced hydrogen evolution electrocatalysis enabled by ruthenium phosphide with tailored hydrogen binding strength via interfacial electronic interaction, **Chemical Engineering Journal**, 2022, 429: 132557.



9. **Ping Li\***, Ran Chen, Yunan Lin, Wenqin Li; General approach to facile synthesis of MgO-based porous ultrathin nanosheets enabling high-efficiency CO<sub>2</sub> capture, **Chemical Engineering Journal**, 2021, 404: 126459.
10. **Ping Li\***, Yunan Lin, Ran Chen, Wenqin Li; Construction of hierarchical-structured MgO-carbon nanocomposite from metal-organic complex for efficient CO<sub>2</sub> capture and organic pollutant removal, **Dalton Transactions**, 2020, 49: 5183-5191.
11. **Ping Li\***, Wenqin Li, Ran Chen, Yunan Lin; Boosting the Oxygen Evolution Electrocatalysis Performance of Iron Phosphide via Architectural Design and Electronic Modulation, **ACS Sustainable Chemistry & Engineering**, 2020, 8: 9206-9216.
12. **Ping Li\***, Ran Chen, Yunan Lin, Wenqin Li; General approach to construct hierarchical-structured porous Co–Ni bimetallic oxides for efficient oxygen evolution, **Inorganic Chemistry Frontiers**, 2020, 7: 2611-2620.
13. **Ping Li**, Hua Chun Zeng\*; Promoting Electrocatalytic Oxygen Evolution over Transition-Metal Phosphide-Based Nanocomposites via Architectural and Electronic Engineering, **ACS Applied Materials & Interfaces**, 2019, 11: 46825-46838.
14. **Ping Li\***, Ran Chen, Shuanghong Tian, Ya Xiong; Efficient Oxygen Evolution Catalysis Triggered by Nickel Phosphide Nanoparticles Compositing with Reduced Graphene Oxide with Controlled Architecture, **ACS Sustainable Chemistry & Engineering**, 2019, 7: 9566-9573.
15. **Ping Li**, Hua Chun Zeng\*; Bimetallic Ni-Fe Phosphide Nanocomposites with Controlled Architecture and Composition Enabling Highly Efficient Electrochemical Water Oxidation, **Journal of Materials Chemistry A**, 2018, 6: 2231-2238.
16. **Ping Li**, Hua Chun Zeng\*; Advanced oxygen evolution catalysis by bimetallic Ni-Fe phosphide nanoparticles encapsulated in nitrogen, phosphorus, and sulphur tri-doped porous carbon, **Chemical Communications**, 2017, 53: 6025-6028.
17. **Ping Li**, Wen Liu, John S. Dennis, Hua Chun Zeng\*; Synthetic Architecture of MgO/C Nanocomposite from Hierarchical-Structured Coordination Polymer toward Enhanced CO<sub>2</sub> Capture, **ACS Applied Materials & Interfaces**, 2017, 9: 9592-9602.
18. **Ping Li**, Hua Chun Zeng\*; Immobilization of Metal–Organic Framework Nanocrystals for Advanced Design of Supported Nanocatalysts, **ACS Applied Materials & Interfaces**, 2016, 8: 29551-29564.
19. **Ping Li**, Yu Yu, Hua Liu, Chang-Yan Cao, Wei-Guo Song\*; A core-shell-satellite structured Fe<sub>3</sub>O<sub>4</sub>@MS-NH<sub>2</sub>@Pd nanocomposite: a magnetically recyclable multifunctional catalyst for one-pot multistep cascade reaction sequences, **Nanoscale**, 2014, 6: 442-448.
20. **Ping Li**, Yu Yu, Pei-Pei Huang, Hua Liu, Chang-Yan Cao, Wei-Guo Song\*; Core-shell structured MgAl-LDO@Al-MS hexagonal nanocomposite: an all inorganic acid-base bifunctional nanoreactor for one-pot cascade reactions, **Journal of Materials Chemistry A**, 2014, 2: 339-344.
21. **Ping Li**, Pei-Pei Huang, Fang-Fang Wei, Yong-Bin Sun, Chang-Yan Cao, Wei-Guo Song\*; Monodispersed Pd clusters generated in situ by their own reductive support for high activity and stability in cross-coupling reactions, **Journal of Materials Chemistry A**, 2014, 2: 12739-12745.
22. **Ping Li**, Hua Liu, Yu Yu, Chang-Yan Cao, Wei-Guo Song\*; One-Pot Multistep Cascade Reactions over Multifunctional Nanocomposites with Pd Nanoparticles Supported on Amine-Modified Mesoporous Silica, **Chemistry – An Asian Journal**, 2013, 8: 2459-2465.
23. **Ping Li**, Chang-Yan Cao, Hua Liu, Yu Yu, Wei-Guo Song\*; Synthesis of a core-shell-shell structured acid-base bifunctional mesoporous silica nanoreactor (MS-SO<sub>3</sub>H@MS@MS-NH<sub>2</sub>) and its application in tandem catalysis, **Journal of Materials Chemistry A**, 2013, 1: 12804-12810.



24. **Ping Li**, Chang-Yan Cao, Zhe Chen, Hua Liu, Yu Yu, Wei-Guo Song\*; Core-shell structured mesoporous silica as acid-base bifunctional catalyst with designated diffusion path for cascade reaction sequences, **Chemical Communications**, 2012, 48: 10541-10543.

### 常用链接

中山大学  
中山大学教务处  
中山大学学生处  
中山大学研究生院  
中山大学图书馆  
中山大学就业指导中心

### 院内单位

广东省环境污染控制与修复技术重点实验室  
中山大学环境科学研究所  
清洁生产与循环经济研究中心  
环境科学与工程学院实验教学中心  
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