



Molly Meng-Jung Li

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ACADEMIC QUALIFICATIONS

2018 DPhil, Inorganic Chemistry, University of Oxford, UK

2010 MSc, Resources Engineering, National Cheng-Kung University, Taiwan

2008 BSc, Resources Engineering, National Cheng-Kung University, Taiwan

EMPLOYMENT

04/2020 – Present Assistant Professor, Hong Kong Polytechnic University, HK

01/2019 – 03/2020 Postdoctoral Research Fellow, CSIRO, Australia

02/2013 – 09/2014 Research Assistant, University of Oxford, UK

07/2011 – 09/2012 Associate Researcher, Industrial Technology Research Institute, Taiwan

RESEARCH INTEREST

Heterogeneous catalysis, Nanocatalysts, Renewable fuel production, Chemical hydrogen storage

SELECTED PUBLICATIONS

1. P. Xiong, J. Li, Z. Xu, Y. Lin, R. D. Bennett, Y. Zhang, W. Tu, Y. Zhu, Y. Soo, T.-S. Wu,* **M. M.-J. Li***, Efficient low-temperature ammonia cracking enabled by strained heterostructure interfaces on Ru-free catalyst. *Adv. Mater.* 2025, 2502034
2. Z. Wang, Y. Lin, Y. Guo*, F. Liang, Z. He, L. Kang, J. Hu, J. Mao*, **M. M.-J. Li***, Feasibility, environmental, and economic analysis of alternative fuel distributed power systems for reliable off-grid energy supply. *Appl. Energy*. 2025, **384**, 125493
3. Z. Wang, Y. Lin, Y. Guo*, F. Liang, Z. He, L. Kang, J. Hu, J. Mao*, **M. M.-J. Li***, Demonstration of a kW-scale flexible multi-fuel reforming power generation system for decentralized energy supply. *Chem. Eng. J.* 2025, **512**, 162626
4. P. Xiong, Z. Xu, T. Wu, T. Yang, Q. Lei, J. Li, G. Li, M. Yang, Y. Soo, R. Bennett, S. P. Lau, S. C. E. Tsang*, Y. Zhu*, **M. M.-J. Li***, Synthesis of core@shell catalysts guided by Tammann temperature, *Nat. Commun.* 2024, **15**, 420
5. L. Zhai, C. Wong, H. Zhang, P. Xiong, X. Xue, Y. Ho, C. Xu, Y. Fong, J. Mei, W. Chan, S. Ip, S. Niu, S. P. Lau*, K. W. E. Cheng*, **M. M.-J. Li***, From lab to practical: An ammonia-powered fuel cell electric golf cart system, *Chem. Eng. J.* 2023, **452**, 139390

AWARDS

2024 Silver Medal, 49th Geneva Inventions Expo, Project Title: Ammonia Powered Electric Vehicle, Geneva, Switzerland

2023 Global Innovation Award, TechConnect World Innovation Conference and Expo, Project Title: Ammonia Powered Fuel Cell-based Electric Vehicle. Washington DC, USA

2021 Top 20 Outstanding Award, TERAWARD Smart Energy Innovation Competition,

Project Title: Ammonia-Powered Fuel-Cell Electric Vehicle in Hong Kong, Hong Kong.