



Ping Chen

Born in Dongying City, CHINA in 1968.

BA from Xiamen University in 1991.

MSc from Xiamen University in 1994.

PhD from Xiamen University in 1997.

Research Fellow, Physics Department, National University of Singapore in 1999.

Senior Research Fellow, Physics Department, National University of Singapore in 2001.

Assistant Professor, jointly appointed by Chemistry Department and Physics Department, National University of Singapore in 2006.

Associate Professor, jointly appointed by Chemistry Department and Physics Department, National University of Singapore in 2008.

Professor, Dalian Institute of Chemical Physics, CAS, in 2008

Division head, Hydrogen Energy and Advanced Materials, Dalian Institute of Chemical Physics, CAS, in 2010.

Email: pchen@dicp.ac.cn

PROFESSIONAL MEMBERSHIP/AWARDS

- ExCo member, International Energy Agency (IEA) Hydrogen TCP
- The International Steering Committee of the International Symposium of Metal-Hydrogen Systems
- Associate Editor, Journal of Energy Chemistry
- Editorial Board, Chem
- The 1st Mission Innovation Champion in the Clean Energy Ministerial 2019
- Science of Hydrogen and Energy Awards 2017
- The National Science Fund for Distinguished Young Scholars 2012
- L'Oréal 'For Women in Science China' 2011
- Materials Research Society Best Service Awards 2011
- Temasek Young Investigator Award 2007

SELECT RECENT PUBLICATIONS

1. Light-driven ammonia synthesis under mild conditions using lithium hydride

Y. Guan, H. Wen, K. Cui, Q. Wang, W. Gao, Y. Cai, Z. Cheng, Q. Pei, Z. Li, H. Cao, T. He, J. Guo*, P. Chen* *Nature Chemistry*, 2024, **16**, 373-379.

2. Deforming lanthanum trihydride for superionic conduction

W. Zhang, J. Cui, S. Wang, H. Cao*, A. Wu, Y. Xia, Q. Jiang, J. Guo, T. He & P. Chen*, *Nature*, 2023, **616**, 72-76.

3. Ternary ruthenium complex hydrides for ammonia synthesis via the associative mechanism

Q. Wang, J. Pan, J. Guo, H. A. Hansen, H. Xie, L. Jiang, L. Hua, H. Li, Y. Guan, P. Wang, W. Gao, L. Liu, H. Cao, Z. Xiong, T. Vegge*, P. Chen*, *Nature Catalysis*, 2021, **4**, 959-967.

4. Interplay of Alkali, Transition Metals, Nitrogen, and Hydrogen in Ammonia Synthesis and Decomposition Reactions

J. Guo, P. Chen*, *Accounts of Chemical Research*, 2021, **54**, 2434-2444

5. Production of ammonia via a chemical looping process based on metal imides as nitrogen carriers

W. Gao, J. Guo,* P. Wang, Q. Wang, F. Chang, Q. Pei, W. Zhang, L. Liu, P. Chen*, *Nature Energy*, 2018, **3**, 1067-1075

6. Breaking scaling relations to achieve low-temperature ammonia synthesis through LiH-mediated nitrogen transfer and hydrogenation

P. Wang, F. Chang, W. Gao, J. Guo*, G. Wu, T. He, P. Chen*, *Nature Chemistry*, 2017, **9**, 64–70

7. High-capacity hydrogen storage in lithium and sodium amidoboranes

Z. Xiong, C. K. Yong, G. Wu, P. Chen*, W. Shaw, A. Karkamkar, T. Autrey, M. O. Jones, S. R. Johnson, P. P. Edwards, W. I. F. David, *Nature Materials*, 2008, **420**, 302-304.

8. Interaction of hydrogen with metal nitrides and imides

P. Chen*, Z. Xiong, J. Luo, J. Lin, K. L. Tan, *Nature*, 2002, **7**, 138-141