

## Yu-Chuan Lin

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### Education

2003 – 2006 Ph. D. Kansas State University (Chemical Engineering)

2000 – 2002 M. S. National Cheng Kung University (Chemical Engineering)

1996 – 2000 B. S. National Cheng Kung University (Chemical Engineering)

### Professional Career

2022.08– present Professor, Dept. of Chem. Eng. National Cheng Kung University

2018.02– 2022.07 Associate Professor, Dept. of Chem. Eng. National Cheng Kung University

2014.08 – 2018.01 Assistant Professor, Dept. of Chem. Eng. National Cheng Kung University

2013.02 – 2014.07 Associate Professor, Dept. of Chem. Eng. Mater. Sci, Yuan Ze University

2009.08 – 2013.01 Assistant Professor, Dept. of Chem. Eng. Mater. Sci, Yuan Ze University

### Selected Publications

1. Y.-C. Lin,\* S. Rajagopal, P.-T. Chou, P.-Y. Peng, Y.-R. Lu, C.-L. Chen, M.-H. Tsai, C.-H. Wang, Crafting a methanation-resistant, reverse water–gas shift-active nickel catalyst with significant nanoparticle dimensions using the molten salt approach, *ACS Sustainable Chem. Eng.* 12 (2024) 14771-14783
2. C.-H. Chen, H.-K. Chen, W.-H. Huang, C.-L. Chen, K. Choojun, T. Sooknoi, H.-K. Tian,\* Y.-C. Lin,\*\* Reversal of methanation-oriented to RWGS-oriented Ni/SiO<sub>2</sub> catalyst by the exsolution of Ni<sup>2+</sup> confined in silicalite-1, *Green Chem.* 2023, 25, 7582-7597.
3. K. Trangwachirachai, I.-. Kao, W.-H. Huang, C.-L. Chen, Y.-C. Lin,\* Co-activation of methane and nitrogen to acetonitrile over MoC<sub>x</sub>/Al<sub>2</sub>O<sub>3</sub> catalysts, *Catal. Sci. Technol.* 13 (2023) 5248-5258.
4. Y.-J. Tsou, T. To, Y.-C. Chiang, J.-F. Lee, R. Kumar, P.-W. Chung,\* Y.-C. Lin,\*\* Hydrophobic copper catalysts derived from copper phyllosilicates in the hydrogenation of levulinic acid to  $\gamma$ -valerolactone. *ACS Appl. Mater. Interfaces* 2020, 12, 54851-54861.
5. C.-C. Tu, Y.-J. Tsou, T. To, C.-H. Chen, J.-F. Lee, G. Huber, Y.-C. Lin,\* Phyllosilicates-derived CuNi/SiO<sub>2</sub> catalysts in the selective hydrogenation of adipic acid to 1,6-hexandiol. *ACS Sustainable Chem. Eng.* 2019, 7, 17872-17881.

### Research Interests

1. Biomass conversion
2. Catalytic conversion of CO<sub>2</sub> and CH<sub>4</sub> to valuable chemicals

### Awards

1. Catalysis Society of Taiwan 「Outstanding Paper Award 2019」
2. Yuan Ze University 「Young Scholar Award 2012」
3. Ministry of Science and Technology, Taiwan 「Young Scholar Fellowship 2017 and 2020」