

## Alex Yip

**Affiliation:** Department of Chemical and Process Engineering,  
University of Canterbury

**Address:** Ilam, Christchurch

**E-mail:** [alex.yip@canterbury.ac.nz](mailto:alex.yip@canterbury.ac.nz)

**Website:** <https://profiles.canterbury.ac.nz/Alex-Yip>



### Education

2009 Ph. D. Hong Kong University of Science and Technology  
(Chemical Engineering)

2005 MPhil Hong Kong University of Science and Technology (Environmental Engineering)

2003 BEng (Hon) University of New South Wales, Australia (Chemical Engineering)

### Professional Career

2023 – Present Professor, Department of Chemical and Process Engineering, University of Canterbury, New Zealand

2020 – 2022 Associate Professor, Department of Chemical and Process Engineering, University of Canterbury, New Zealand

2019 – 2020 Senior Lecturer Above the Bar, Department of Chemical and Process Engineering, University of Canterbury, New Zealand

2015 – 2018 Senior Lecturer, Department of Chemical and Process Engineering, University of Canterbury, Christchurch, New Zealand

2016 – Present, Vice President, Australasian Particle Technology Society (APTS), Engineers Australia

2011-2014 Lecturer, Department of Chemical and Process Engineering, University of Canterbury, New Zealand

2010-2011 Postdoctoral Fellow, Laboratory for the Science and Applications of Catalysis, University of California, Berkeley, CA, USA

2009-2010 Postdoctoral Fellow, Department of Chemical and Biomolecular Engineering, Hong Kong University of Science and Technology, Hong Kong

2003-2009 Teaching Assistant, Department of Chemical and Biomolecular Engineering, Hong Kong University of Science and Technology, Hong Kong

2002 Research Assistant, Particles and Catalysis Research Group, School of Chemical Sciences and Engineering, University of New South Wales, Australia

### Selected Publications

1. Cahyanto H, Chen X, Lam FLY, Iadrat P, Wattanakit C, Kidkhunthod P, Singh V, Brooker S, Pang S, Choi J, **Yip ACK**, Effective prevention of palladium metal particles sintering by histidine stabilization on silica catalyst support, *Adv. Func Mater.* 2024, 34, 2402983.
2. Iadrat P, Prasertsab A, Limlamthong M, Choi J, Park HE, Wattanakit C, **Yip ACK**, Modification of zeolite morphology via  $\text{NH}_4\text{F}$  etching for catalytic bioalcohol conversion, *ChemCatChem* 2024, 16, e202400389.
3. Liu T, Li X, Shim J, Curnow O, Choi J, **Yip ACK**, Accelerated crystallization kinetics of MFI zeolite via imidazolium-based synthesis, *Cryst. Growth Des.* 2024, 24, 4122-4130.
4. Hong S, Jeong Y, Baik H, Choi N, **Yip ACK**, Choi J, An extrinsic-pore-containing molecular sieve film: a robust, high-throughput membrane filter, *Angew. Chem.* 2020, 60, 1323-1331.

CV, Keynote Speaker, TICC2025

5. Jeong Y, Hong S, Jang E, Kim E, Baik H, Choi N, **Yip ACK**, Choi J, An Hetero-Epitaxially Grown Zeolite Membrane, *Angew. Chem.* 2019, 58, 18654-18662.

### **Research Interests**

1. Heterogeneous Catalysis.
2. Zeolite Synthesis and Catalysis
3. CO<sub>2</sub> Utilization
4. Biomass conversion
5. Gas Separations

### **Awards**

1. 2016, University of Canterbury, College of Engineering, New and Emerging Research Award
2. 2016, University of Canterbury, Sustainability Award (Supreme Award)
3. 2019, New Zealand Chinese Scientist Association, Young Scientist Award
4. 2021, University of Canterbury, Established Teaching Award