

Minju Chung

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Education

2018 – 2023 Ph. D. Massachusetts Institute of Technology (Chemical Engineering)

2014 – 2018 B. S. Seoul National University (Chemical and Biological Engineering)

Professional Career

2025.01 – Present Assistant Professor, Dpt. of Chemical & Biomolecular Engineering, KAIST, South Korea

2023.07 – 2024.12 Postdoctoral Researcher, School of Chemical and Biomolecular Engineering, Georgia Institute of Technology, USA

Selected Publications

1. M. Chung, J. H. Maalouf, J. S. Adams, C. Jiang, Y. Román-Leshkov, and K. Manthiram*, Direct propylene epoxidation via water activation over Pd-Pt electrocatalysts, *Science* 2024, 383, 49–55.
2. M. Chung,[#] K. Jin,[#] J. S. Zeng, T. Ton, and K. Manthiram*, Tuning single atom dopants on manganese oxide for selective electrocatalytic cyclooctene epoxidation, *J. Am. Chem. Soc.* 2022, 144, 17416-17422. ([#]: equal contribution)
3. S. Park,[#] M. Chung,[#] A. Lamprou, K. Seidel, S. Song, C. Schade, J. Lim*, and K. Char*, High strength, epoxy cross-linked high sulfur content polymers from one-step reactive compatibilization inverse vulcanization,” *Chem. Sci.* 2022, 13, 566-572.
4. M. Chung, K. Jin, J. S. Zeng, and K. Manthiram*, Mechanism of chlorine-mediated electrochemical ethylene oxidation in saline water, *ACS Catal.* 2020, 10, 14015-14023.

Research Interests

1. Electrified Chemical Synthesis
2. Intersections between Thermo- and Electro- catalysis

Awards

1. WIC Travel Award, AIChE Women in Chemical Engineering (2024)
2. Postdoc Poster Award, 2024 Catalysis Gordon Research Conference (2024)
3. Kokes Award, The 28th North American Catalysis Society Meeting (2023)
4. AIChE Catalysis and Reaction Engineering Travel Award, AIChE CRE Division (2022)
5. Hanwha Travel Award, Hanwha Solutions Corp. & Hanwha Total Corp. (2021)
6. Dow Travel Award, MIT Chemical Engineering Graduate Student Advisory Board (2019)
7. Doctoral Study Abroad Scholarship, Kwanjeong Educational Foundation (2018-2023)