



Jong Hun Kang

Associate Professor

Department of Chemical and Biological Engineering, Seoul
National University (SNU)

1 Gwanak-ro, Seoul National University, Gwanak-gu, Seoul
08826, Republic of Korea

Office: SNU Room 302-729

Tel: +82-2-880-1880

Email: jonghunkang@snu.ac.kr

Webpage: <https://jonghunkanglab.wordpress.com/>

Education:

PhD (2014/10~2019/6) Chemical Engineering, California Institute of Technology, USA

M.S. (2012/9~2014/8) Materials Science and Engineering, Seoul National University, Korea

B.S. (2005/3~2009/2) Materials Science and Engineering, Seoul National University, Korea

Experience:

Postdoc (2019/9~2020/7) Chemical Engineering, Massachusetts Institute of Technology, USA

Selective Honors & Awards:

1. Editorial Board Member of *Transactions of Tianjin University* (2024 JIF: 8.5) (2025~now)
2. Lee Byeongho Lecture Price, Seoul National University College of Engineering, (2023)
3. Samsung Scholarship (2014–2019)

Research Areas:

Zeolites, Catalysis, Porous & Nanocarbons, Energy Applications

Selective Publications:

1. “Nitrogen-doped porous carbon paper synthesis by expansion of fiber-shell graphene oxide for efficient electrocatalytic hydrogen evolution reaction”, *Carbon*, (2026), 121225.
2. “Enhanced Structural Stability of Mo/ZSM-5 for Regenerability Improvement in Shale Gas Aromatization: The Effect of External Acidity and Defect Density”, *Appl. Catal. B Environ. Energy*, 379 (2024), 125655.
3. “Optimization of low-temperature catalytic cracking of polyolefin waste in open-batch reactors using zeolite beta with controlled intrinsic properties”, *Commun. Eng.*, 4 (2025) 57.
4. “Acid-site control of ZSM-5 zeolites using quaternary ammonium hydroxides for shale gas dehydroaromatization”, *Chem. Eng. J.*, 482 (2024), 148862.
5. “Ozone-treated carbon nanotube as a conductive agent for dry-processed lithium-ion battery cathode”, *ACS Energy Lett.*, 8 (2023), 3460-3466.