

Young-Woong Suh

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Education

1999 – 2003 Ph. D. Seoul National University (Chemical Engineering)
1997 – 1999 M. S. Seoul National University (Chemical Engineering)
1993 – 1997 B. S. Hanyang University (Chemical Engineering)

Professional Career

2019.03 – Present Professor, Department of Chemical Engineering, Hanyang University
2014.03 – 2019.02 Associate Professor, Department of Chemical Engineering, Hanyang University
2011.03 – 2014.02 Assistant Professor, Department of Chemical Engineering, Hanyang University
2006.04 – 2011.02 Senior Research Scientist, Korea Institute of Science and Technology (KIST)
2003.11 – 2006.03 Post-doctoral Fellow, Northwestern University, USA

Selected Publications

1. S. Saravanamurugan, H. Li, A. Pandey, Young-Woong Suh (2024). Catalytic Transformations of Sustainable and Versatile Furanic Chemicals, CRC Press, Boca Raton. ISBN 9781032735672
2. H.J. Jung, H. Jeong, D. Kim, H. Ko, G.B. Han, B. Jeong, T.W. Kim*, Young-Woong Suh*, Metal-support interface engineering of Ni catalysts for improved H₂ storage performance: Grafting alkyltriethoxysilane onto commercial alumina, *Chem. Eng. J.* 2023, 469, 143872.
3. J. Oh, Y. Jo, T.W. Kim, H.B. Bathula, S. Yang, J.H. Baik, Young-Woong Suh*, Highly efficient and robust Pt ensembles on mesoporous alumina for reversible H₂ charge and release of commercial benzyltoluene molecules,” *Appl. Catal. B* 2022, 305, 121061.
4. T.W. Kim, M. Kim, S.K. Kim, Y.N. Choi, M. Jung, H. Oh, Young-Woong Suh*, Remarkably fast low-temperature hydrogen storage into aromatic benzyltoluenes over MgO-supported Ru nanoparticles with homolytic and heterolytic H₂ adsorption, *Appl. Catal. B* 2021, 286, 119889.
5. J. Oh, K. Jeong, T.W. Kim, H. Kwon, J.W. Han, J.H. Park*, Young-Woong Suh*, 2-(*N*-methylbenzyl)pyridine: A potential liquid organic hydrogen carrier with fast H₂ release and stable activity in consecutive cycles, *ChemSusChem* 2018, 11, 661–665. (Front cover)

Research Interests

1. Sustainable Aviation Fuel (SAF) and Renewable Diesel (RD) via Hydrodeoxygenation.
2. Liquid Organic Hydrogen Carrier (LOHC) Based on Supported Metal Catalysts.
3. CO₂ Activation for Methanol Synthesis.
4. Elegant Design of Heterogeneous Catalysts.

Awards

1. Ministry of Science and ICT, Republic of Korea 「Research Award」 (2024)
2. Korea Institute of Chemical Engineers 「SimGang Paper Award 2021」 (2021)
3. Korea Institute of Chemical Engineers 「Young Researcher for Catalysis」 (2020)
4. Hanyang University 「Researcher of the Month」 (April 2018, June 2023)
5. Hanyang University 「Outstanding Teacher Award」 (2017, 2018, 2023)