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Jae Sung Lee is PhD in Chemical Engineering from Stanford University, U.S.A; MSc from KAIST, and B.S form Seoul National University, Korea. He worked for Catalytica, Inc. as a research fellow (84-86), and was a visiting professor to Yale University (93-94).

He has more than 30 years of experience in teaching and research in catalysis and energy technologies. Specific current research thrust includes photocatalytic and photoelectrochemical water splitting and CO_2 reduction for solar fuels production, synthesis and catalytic applications of nanomaterials, electrocatalysts for fuel cells, and catalytic CO_2 conversion to value-added products. He is leading Eco-friendly Catalysis and Energy Laboratory, and actively participates in several national projects related to solar hydrogen production and artificial photosynthesis. He has published more than 450 scientific papers and 100 patents in the field. His work has been cited ~18000 times with a h-factor of 71.

At present, he is a professor of Chemical Engineering, Ulsan National Institute of Science & Technology (UNIST). He is a full member of Korean Academy of Engineering and the treasurer of Asia Pacific Association of Catalysis Societies. He is in the editorial board of Journal of Catalysis, Applied Catalysis, Journal of Molecular Catalysis, ChemCatChem, Catalysis Letters, and Topics in Catalysis. He has served as a technical advisor for many Korean chemical companies including Sam Sung Petrochemicals, Sam Sung Advanced Institute of Technology, and LG Chemicals. He was the recipient of Green Energy Prize 2005 (Korean Society of Energy Engineering) and Yeosan Catalysis Research Prize 2010 (Korean Institute of Chemical Engineers).