



Dr. Manhee Byun

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Dr. Manhee Byun received his BS (2019) and combined MS & PhD (2023) in chemical engineering from Ulsan National Institute of Science and Technology (UNIST) in Korea. Today he is working as a chief technical officer of Carbon Value in Korea, which aims to develop next-generation technologies for utilization of waste carbon from various industrial sector such as power plant, ship, bio-gas, semiconductor industry, battery recycling, etc. by sophisticated engineering, demonstration, scale-up, and commercialization.

His research interest includes process design & scale-up, machine learning based process optimization, mathematical modeling of reactor, plant demonstration, commercialization, feasibility study of the chemical process for supply chain of H₂ including production, transportation, storage, and utilization, CO₂ capture & utilization, methanol, LOHC, process intensification, treatment of biogas, flue gas from semiconductor industry, etc., and carbon neutral processes leading (co)-authored +20 research papers.