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Dr. Jihoon Seo is an Assistant Professor of Chemical and Biomolecular Engineering at Clarkson University, where he leads research in advanced semiconductor manufacturing processes, particularly chemical mechanical planarization (CMP). His work focuses on developing innovative CMP slurry formulations and post-CMP cleaning solutions. Dr. Seo significantly contributes to Clarkson's globally recognized CMP research program, emphasizing sustainable manufacturing practices and workforce development within the semiconductor industry. He has established robust collaborations with leading semiconductor companies, securing substantial external funding and earning recognition through Clarkson's 2024 Million Dollar Club and consecutive FuzeHub Manufacturing Awards in 2022 and 2023. Additionally, Dr. Seo actively serves on the Center for Advanced Materials Processing (CAMP) Faculty Advisory Board, organizes Clarkson's annual CMP symposium, participates in semiconductor technology roadmap committees, and holds editorial roles in leading CMP-focused scientific journals.