



Prof. Ungyu Paik

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Ungyu Paik is a distinguished professor in the Department of Energy Engineering at Hanyang University in Korea. He earned his Ph.D. in the Department of Ceramic Engineering from Clemson University in 1991 and subsequently conducted postdoctoral research at the National Institute of Standards and Technology in the USA. In 1999, he joined Hanyang University as a professor.

His research interests focus on the synthesis and engineering of nanomaterials for use in chemical mechanical planarization (CMP) processes and energy devices, particularly CMP slurry development based on inter-particle force control of nanoceramic particles, colloid and surface chemistry, liquid-solid interface chemistry, electrochemistry, and various metal and dielectric thin films.

To date, he has published over 500 papers and holds more than 200 granted patents and patent applications. For Five consecutive years (2020, 2021, 2022, 2023, and 2024), he has been selected as a highly cited researcher (HCR) in the top 1% of scientists in the "Crossfield" by Clarivate Analytics. He has also contributed to the industry by collaborating with many global companies, including Samsung Electronics Co., Ltd and SK Hynix Inc. His contributions to nanomaterials and energy devices have been significant, cementing his position as a distinguished professor and researcher in his field.