



Prof. Seungwu Han

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Professor Seungwu Han, Ph.D., is an esteemed researcher and lecturer in the field of Materials Science and Engineering. Currently, he serves as a Professor at the Department of Materials Science and Engineering in the College of Engineering, Seoul National University, Korea. He also heads the Materials Data and Informatics Laboratory.

He received his B.S. (1993) and M.S. (1995) degrees in Physics from Seoul National University, where he also completed his Ph.D. in 2000. During his graduate studies, he conducted significant research into the theoretical study on the field emission of carbon nanotubes.

Post his Ph.D., he served as a Postdoctor at the Center for Strongly Correlated Materials Research, Seoul National University, Korea, and later at the Princeton Materials Institute, Princeton University, USA. He then began his academic career at Ewha Womans University, where he was a Full-time Lecturer, and later Assistant and Associate Professor in the Department of Physics. He moved to Seoul National University in 2009 as an Associate Professor and was promoted to his current position in 2013.

Dr. Han is a distinguished researcher with a multitude of accolades, including the Ssangyong Outstanding Student Fellowship, the Iljoo Academic Scholarship, the Overseas Postdoctoral Fellowship from the Korean Government, and various awards for best paper and poster presentations in conferences worldwide.

His current research activities are focused on high-throughput automatic calculations for large-scale material screening, machine-learning potential for efficient molecular dynamics simulations, p-type semiconducting oxides for display device applications, catalysts for energy conversion and chemical reactions, and materials modeling for microelectronic devices.

Prof. Han's body of work is robust, with over 210 journal papers to his credit, two book chapters, conference proceedings, and Korean patents. His work has been cited over 15,112 times, and he boasts a high H-index of 62. He has successfully supervised 19 graduate students and is currently mentoring 17 Ph.D. candidates.

In addition to his impressive academic career, he maintains active memberships with the Korean Physical Society, Korean Institute of Metals and Materials, Korean Ceramic Society, and the Materials Research Society.