

Prof. Young Keun KIM

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Biography. Professor Kim works in the Department of Materials Science and Engineering at Korea University, Seoul, Korea, since 2000. He has also been the Director of the Center for Spin-Orbitronic Materials since 2015. He is a Fellow of the Korean Academy of Science and Technology (KAST), a Member of the National Academy of Engineering of Korea (NAEK), and a Senior Member of IEEE. He received the National Order of Service Merit-Green Stripes from the Korean government on June 14, 2017, at the National Invention Day.

Before joining Korea University, he worked for Quantum Corporation in the USA and Samsung Electro-Mechanics in Korea. He received the BS (1985) and MS (1987) degrees in Metallurgical Engineering from Seoul National University and the Ph.D. degree (1993) in Materials Science and Engineering from MIT.

Currently, he is the President of the Korean Magnetics Society, the VP and a Council Member of the Asian Union of Magnetics Societies (AUMS), an Editorial Board Member of *Scientific Reports* and *IEEE Transactions on Magnetics*. In addition, he was the President of the Research and Business Foundation of Korea University from 2008 till 2011. He also served as an Advisory Staff Member for the Presidential Advisory Council on Education, Science, and Technology of Korea in 2012.

He received all of the Korea University's awards: Research Award in 2021, Technology Award in 2016, and Teaching Award in 2005. He also received the Amo Award in 2019 and the Academic Achievement Award in 2009 from the Korean Magnetics Society. He also received the Iljin Academic Achievement Award from the Korean Institute of Metals and Materials in 2015. In addition, his research result was selected as one of the Top 50 Research Outcomes of the Year by the Korean Science and Engineering Foundation in 2006.

Prof. Kim has published over 280 peer-reviewed journal papers, invented over 90 registered patents, six technology transfers, and delivered over 130 invited talks. Prof. Kim's research interests include novel magnetic thin films and nanostructured materials development for spintronic devices, metallization, and biomedical applications.