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Dr. Jae Hyun Kim

Division of Energy Technology
DGIST

333, Techno Jungang-Daero, Hyeonpung-Myeon,
Dalseong-Gun Daegu 42988, Republic of Korea



Dr Kim completed his doctorate in materials science and engineering at the Korea Advanced Institute of Science and Technology in 2003. He joined LG. Philips LCD as senior research engineer, where he directed design and process development of TFT-LCD TV panel in 2003 ~ 2005. He moved to Daegu Gyeongbuk Institute of Science and Technology in 2005 and is principal researcher now. Dr Kim did research on the solar thermal unified device project as a project leader. His recent research focus is composite polymer solid-state electrolyte for Li-ion batteries. He is serving chief vice president of Korea Photovoltaic Society and vice president of Materials Research Society of Korea now.