

SHORT BIO

Dr. Ill Ryu is an Assistant Professor in the Department of Materials Science and Engineering at Seoul National University. Prior to returning to Korea, he spent seven years in the Department of Mechanical Engineering at the University of Texas at Dallas. He received his Ph.D. in Materials Science and Engineering, with a minor in Mechanical Engineering, from Stanford University, after which he continued his research as a postdoctoral research fellow and lecturer at Brown University. His research interests include multiscale computational materials science, mechanical size effects in materials, the mechanics of energy materials, and multi-physical modeling of materials. In particular, his work focuses on the fundamental understanding of deformation mechanisms required to design robust and reliable devices across length scales, from MEMS/NEMS (micro-/nano-electromechanical systems) at small scales to aircraft at large scales. He currently serves as Chair of the Reliability Subcommittee of the Korean Microelectronics and Packaging Society (KMEPS) and as Chair of the International Committee of the Korean Institute of Metals and Materials (KIM).