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His current research interests include the design and fabrication of neuromorphic devices and circuits, flash memories, and silicon quantum devices. He has authored and co-authored over 1100 research papers in journals and conferences, and currently holds 101 Korean and 42 U.S. patents. He has served as a committee member on several international conferences, including Microprocesses and Nanotechnology, IEEE International Electron Devices Meeting, International Conference on Solid State Devices and Materials, Silicon Nanoelectronics Workshop (technical program chair in 2005, general chair in 2007), and International Technology Conference on Circuits, Systems, Computers and Communications (technical program chair in 2007, general chair in 2011). He served as an editor of IEEE Electron Device Letters and the editor-in-chief of Journal of Semiconductor Technology and Science. He served as the Seoul Section chair of IEEE (2014) and the president of Institute of Electronics and Information Engineers (2015). He received “Best Teacher” Award from SoEE in 1997, Doyeon Award for Creative Research from ISRC in 2003, and Educational Award from College of Engineering, SNU, in 2006, Haedong Research Award from IEEK in 2008, and Best Research Award from SNU in 2015.