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Young-Kyun Kwon is Assistant Professor of Physics at University of Massachusetts Lowell. Before joining UMass Lowell faculty, he worked as a senior scientist at Nanomix, Inc., a nanotechnology company in California, and as postdoctoral fellow or research associate affiliated at UC Berkeley, Lawrence Berkeley National Lab, U of Minnesota, and Michigan State U. He received both B.S and M.S in physics from Seoul National University, Korea, and Ph.D from Michigan State U. He was also a faculty member at Korea Air Force Academy, while he held a rank of Lieutenant in Korean Air Force. His research in theoretical and computational condensed matter physics and materials physics has produced more than 25 scientific papers including 10 in Physical Review Letter. In addition, he holds 3 US patens and 5 US patent applications in nanoscience and nanotechnology