

RHEE Joo Yull

Professor
Department of Physics



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Key Words Electronic Structures, Magnetic materials, Optical Properties, Metamaterials,

Research Area Condensed-matter physics, Metamaterials

Education

- 1992 PhD Iowa State University, USA
- 1980 MSc KAIST, Korea
- 1978 BSc Seoul National University, Korea

Experience

- Sep. 2005 - Now Professor, Sungkyunkwan University
- Mar. 1994 - Aug. 2005 Professor, Hoseo University
- Aug. 1992 - Feb. 1994 Post-doctoral Fellow, Ames Lab, USA
- Mar. 1980 - Aug. 1985 Assistant Professor, University of Ulsan, Korea
- Jan. 2009 – Dec. 2010 Editor-in-Chief, Journal of the Korean Physical Society, and Vice President of the Korean Physical Society, Korea
- Sep. 2011 – Dec. 2012 Editor-in-Chief and Vice President of the Korean Vacuum Society, Korea

Position

- Sep. 2009 - Now Chairman of Dept. of Phys., SKKU
- Jan. 2010 - Now Editor, Chinese Physics B
- Sep. 2014 - Now Chair, Publication Committee, NanoKorea2015 and NanoKorea2016

Selected Publication

- Generalized susceptibility and magnetic ordering in rare-earth nickel boride carbides *Phys. Rev. B* **51**, 15 585 (1995).
- Realization of room-temperature ferromagnetism and of improved carrier mobility in Mn-doped ZnO film by oxygen deficiency, introduced by hydrogen and heat treatments, *Adv. Mater.* **19**, 3496–3500 (2007).
- Realization of a large magnetic moment in the ferromagnetic CoPt bulk phase, *Phys. Rev. Lett.* **87**, 067208 (2001)
- One-dimensional magnetic grating structure made easy, *Appl. Phys. Lett.* **89**, 151111 (2006)
- Active manipulation of plasmonic electromagnetically-induced transparency based on magnetic plasmon resonance, *Opt. Express* **18**, 20912-20917 (2010).
- Multifunctional Antireflection Coatings Based on Novel Hollow Silica–Silica Nanocomposites, *ACS Appl. Mater. Interfaces* **6**, 1415–1423 (2014).
- Metamaterial Absorber for Electromagnetic Waves in Periodic Water Droplets, *Sci. Rep.* **6**, 14018-14022 (2015).
- Generalized susceptibility of the magnetic shape-memory alloy NiMnGa, *Phys. Rev. B* **66**, 054 424 (2002).

Others

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