

## Noejung Park professor

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### ◆ Research Interests

1. Computational and theoretical physics of condensed matters and many-electron systems.
2. Superconductors and Magnetism in novel structures
3. The effect of exact exchange, Itinerant magnetism, magnetic anisotropy in low-dimensional structures
4. Electron-phonon & electron-photon interaction and the related phenomena

### ◆ Research Representative Publications (selected)

1. Progress on hydrogen storage in sorbent materials: first-principles-based materials design, PANS(2012)
2. Inaccuracy of Density Functional Theory Calculations for Dihydrogen Binding Energetics onto Ca Cation Centers, Physical Review Letters (2009,2010)
3. Electron Emission Originated from Free-Electron-like States of Alkali-Doped Boron-Nitride Nanotubes, journal of the American Chemical Society, (2008) Journal of the American Chemical Society (2008)  
Journal of the American Chemical Society, (2007) journal of the American chemical Society (2007)  
Physical Review Letters (2003) Physical Review Letters (2003)
4. Superconductors and Magnetism in novel structures, Electron-phonon & electron-photon interaction and the related phenomena
5. The effect of exact exchange, Itinerant magnetism, magnetic anisotropy in low-dimensional structures.

### ◆ Curriculum Vitae

2011-UNIST

2005-2011 Dankook University, Department of Physics

2004. Samsung Advanced Institute of Technology  
2003. Research Organization of Information Science and Technology, Japan  
2002. Ph. D. Seoul National University, Department of Physics  
1997. M. S. Seoul National University, Department of Physics  
1994. B. S. Seoul National University, Department of Civi&Environmental Engineering