

Curriculum Vitae

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Educational Background:

B.S., Physics, Seoul National University, Aug. 2003
Ph.D., Physics, Seoul National University (Ph.D. + M.S. united course), Aug. 2011
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Professional Experience:

Teaching Assistant (Computational Sciences: Theory and Practice I) with Dr. Doyup Kim,
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Mar. 2011 – June 2011

Scholarship:

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Sep. 2000 – Dec. 2006

Publications:

1. *Jae-Hyeon Parq*, Jaejun Yu, and Gunn Kim, "**First-principles study of ultrathin (2×2) Gd nanowires encapsulated in carbon nanotubes**," *Journal of Chemical Physics*, v.132, p.054701 (2010)
2. *Jae-Hyeon Parq*, Jaejun Yu, Young-Kyun Kwon, and Gunn Kim, "**Tunable charge donation and spin polarization of metal adsorbates on graphene using an applied electric field**", *Physical Review B*, v. 82, 193406 (2010)

Abstracts:

1. Jae-Hyeon Parq, Myung Joon Han, and Jaejun Yu, "*LDA+U Study of Electronic and Magnetic Structure of Fe Atoms in Myoglobin Molecules*", The 9th Asian Workshop on First-Principles Electronic Structure Calculations, Korea Institute for Advanced Study, Seoul, Korea (Nov. 6-8, 2006).
2. Jae-Hyeon Parq, Myung Joon Han, and Jaejun Yu, "*GGA+U Electronic and Magnetic Structures of Heme Molecules*", The 10th Asian Workshop on First-Principles Electronic Structure Calculations, Hiroshima University, Hiroshima, Japan (Oct. 29-31, 2007).
3. Jae-Hyeon Parq, Jaejun Yu, and Gunn Kim, "*Geometric and Electronic Structures of Gd Nanowires in Carbon Nanotubes*", The 5th Japan-Korea Symposium on Carbon Nanotube, Haeundae Grand Hotel, Busan, Korea (Nov. 9-12, 2008)
4. Jae-Hyeon Parq, Jaejun Yu, and Gunn Kim, "*Ultrathin (2×2) Gd Nanowires Encapsulated in Carbon Nanotubes: First-Principles Calculations*", The 5th KIAS Electronic Structure Calculation Workshop, Korea Institute for Advanced Study, Seoul, Korea (June 18-19, 2009)
5. Jae-Hyeon Parq, Jaejun Yu, Young-Kyun Kwon, and Gunn Kim, "*Robustness of the Dirac Point in Response to Metal Atom Induced Charges and Spin Polarization in Graphene*", The 6th KIAS Electronic Structure Calculation Workshop, Korea Institute for Advanced Study, Seoul, Korea (June 21-22, 2010).
6. Jae-Hyeon Parq, Jaejun Yu, Young-Kyun Kwon, and Gunn Kim, "*Electrically Tunable Charge Transfer and Spin Polarization of Metal Adatom on Graphene by Applied Electric Field*", The 13th Asian Workshop on First-Principles Electronic Structure Calculations, POSTECH, Pohang, Korea (Nov. 1-3, 2010).

7. Jae-Hyeon Park and Jaejun Yu, “*Effect of Strain on Electronic and Magnetic Structures of Iron Porphyrin Tapes*”, The 7th KIAS Electronic Structure Calculation Workshop, Korea Institute for Advanced Study, Seoul, Korea (June 23-24, 2011)