

Curriculum Vitae

Suk Jun Kim

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Education

Ph.D.

Materials Engineering, Purdue University, *August 2005-Present*

M.S.

Materials science and engineering, Hanyang University, Korea (2002~2004) GPA: 4.0/4.0
Master's Thesis: *Development of amorphous half metallic Co₂MnSi thin film for spin polarization*

B.S.

Materials science and engineering, Hanyang University, Korea (1996~2002) GPA: 3.66/4.0

Work Experience

Nanospintronics Laboratory, Hanyang Univ. (Brain Korea 21 Laboratory) (2002~2004)

- Research assistant

Project involved

- ERC(Engineering Research Center) 2003~2004
'The development of high density recording media'

TEM (Transmission Electron Microscope) Operator in Hanyang Univ. (2003~2004)
(JEOL-2000EXII, JEM-2010)

SEM (Scanning Electron Microscope) Operator in Hanyang Univ. (2003~2004)
(JEOL-JSM6330F)

Teaching Experience

MAE251 Materials Science Engineering Lab. *Hanyang Univ.* (Spring 2003)

MSE230 Structure and Properties of Materials *Purdue Univ.* (Spring 2006)

Publication

1. C. S. Yoon, S. J. Kim, **Suk Jun Kim**, and C. K. Kim "Structure and magnetic properties of thermally annealed (Ni₈₀Fe₂₀)_{1-x}Mn_x thin films" *Journal of Applied Physics* Vol. 94, No. 1, 539 (July 2003)
2. S. J. Kim, D. H. Lim, **Suk Jun Kim**, Chong S. Yoon, and Chang K. Kim "Magnetic Properties of Phase-Separated (Ni₈₀Fe₂₀)_{1-x}Mn_x thin films" *IEEE TRANSACTIONS ON MAGNETICS*, Vol. 39 No. 5, 2690 (September 2003)
3. **Suk J. Kim**, Suk-Won Hwang, C.S. Yoon, C.K. Kim "Structure and magnetic properties of thermally annealed Fe₇₃Pt₅B₁₀Si₁₂ amorphous metallic alloy" *MATERIALS SCIENCE & ENGINEERING B*, vol. 108 No. 3, 266 (May 2004)
4. Suk-Won Hwang, **Suk J. Kim**, C. S. Yoon, and C. K. Kim "Crystallization and structural relaxation of Fe_{78-x}Pt_xB₁₀Si₁₂ metallic glasses" *Physica Status Solidi (a)* 201, No. 8, 1875 (June 2004)

5. D. H. Im, Chung-Sik Yoo, **Suk J. Kim**, Suk-Won Hwang, I. S. Chun, C. S. Yoon, and C. K. Kim "Structure and magnetic properties of exchange-coupled Co–CoPt nanocomposite thin films" *Physica Status Solidi (a)* 201, No. 8, 1862 (June 2004)
6. **Suk J. Kim**, Sung. J. Kim, Dong H. Im, Chang. K. Kim, and Chong. S. Yoon "Thermal Stability of Magnetic Tunnel Junctions With FeO_x Doped Tunnel Barrier" *IEEE TRANSACTIONS ON MAGNETICS*, Vol. 40 No. 4, 2284 (July 2004)
7. **Suk J. Kim**, D. H. Lim, C. S. Yoon, C. K. Kim "Crystallization of amorphous Co₂MnSi thin film" *Solid State Communications*, Vol. 132 No. 6, 361 (September 2004)
8. **Suk J. Kim**, Kyung-Sook Jeon, I. S. Chun, C. K. Kim and C. S. Yoon "Magnetic properties and crystallization of Co₆₈Mn₁₀B₁₀Si₁₂ and Co₅₈Mn₂₀B₁₀Si₁₂ amorphous alloys" *Journal of Alloys and Compounds*, Vol. 386 No. 1/2, 276 (January 2005)
9. Sung K. Lim, **Suk J. Kim**, C. K. Kim, C. S. Yoon, "X-ray magnetic Circular Dichroism Analysis of Thermally annealed Co₅₃Mn₂₅B₁₀Si₁₂ Amorphous Alloy" *Journal of Magnetism and Magnetic Materials*, Vol. 288, 315 (March 2005)

Technical skills

Analytical tools

TEM (JEOL-2000exII, 2010), SEM(JEOL- JSM6330F), XRD(Rigaku, Rint-2000), XRF(Shimadzu,XRF-1700), VSM(Lakeshore), DSC(TA Instruments DSC-2010), and XMCD, EXAFS, NEXAFS, PES (Pohang Accelerator Laboratory, Korea)

Growth tools

Sputtering, Evaporator

Scholarship

Two-semester scholarship, Hanyang University, Seoul, Korea (1996, 1997)

One-semester TA scholarship, Hanyang University, Seoul, Korea (2003)

Korea Research Foundation Fellowship (2002–2004)

Computer skills

Highly proficient with Windows™ operating systems and MS-office™

Competent with scientific programs, such as Origin™ and EMS (Electron Microscopy image Simulation)