

# Soon Cheol Hong

## List of Publications by Year in descending order

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117  
papers

4,623  
citations

236925

25  
h-index

98798

67  
g-index

117  
all docs

117  
docs citations

117  
times ranked

7519  
citing authors

#	ARTICLE	IF	CITATIONS
1	ss and strain effects on electronic structures of transition metal dichalcogenides: $M_{2}X_{2}$		



#	ARTICLE	IF	CITATIONS
37	Electronic and magnetic properties of MnSnAs <sub>2</sub> . <i>Physica Status Solidi (B): Basic Research</i> , 2004, 241, 1462-1465.	1.5	17
38	Strain-induced modification in the magnetic properties of Mn <sub>5</sub> Ge <sub>3</sub> thin films. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	17
39	Hydrogen interaction with a sulfur-vacancy-induced occupied defect state in the electronic band structure of MoS <sub>2</sub> . <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 15302-15309.	2.8	17
40	Theoretical analysis of triple junction field emission for a type of cold cathode. <i>Journal of Vacuum Science &amp; Technology B</i> , 2006, 24, 909.	1.3	16
41	Engineering of magnetostriction in Fe <sub>3</sub> Pt <sub>1-x</sub> by controlling the Ir concentration. <i>Applied Physics Letters</i> , 2011, 98, 152502.	3.3	16
42	Enhancing Energy Product and Thermal Stability of $\text{Sm}_{12}\text{Fe}_{12}\text{Mn}$ by Interstitial Doping. <i>Physical Review Applied</i> , 2020, 13, .	3.8	16
43	Preparation of MoO <sub>3</sub> /MoS <sub>2</sub> /TiO <sub>2</sub> Composites for Catalytic Degradation of Methylene Blue. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 5884-5891.	0.9	14
44	First-principles study of magnetization reorientation and large perpendicular magnetic anisotropy in $\text{Cu}_x\text{Fe}_{1-x}\text{MgO}$ heterostructures. <i>Physical Review B</i> , 2018, 98, .	3.7	14
45	Interface Defect Engineering of a Large-Scale CVD-Grown MoS <sub>2</sub> Monolayer via Residual Sodium at the SiO <sub>2</sub> /Si Substrate. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100428.	3.7	14
46	Total Laparoscopic Resection of Primary Large Retroperitoneal Teratoma Resembling an Ovarian Tumor in an Adult. <i>Journal of Minimally Invasive Gynecology</i> , 2008, 15, 384-386.	0.6	13
47	First-principles investigation of huge magnetostriction in cubic L1 <sub>2</sub> Fe <sub>3</sub> Pt. <i>Journal of Applied Physics</i> , 2010, 107, 09A945.	2.5	12
48	Magnetocrystalline anisotropy energy and spin polarization of Fe <sub>3</sub> Si in bulk and on Si(001) and Si(111) substrates. <i>Thin Solid Films</i> , 2011, 519, 8218-8222.	1.8	12
49	A first-principles study of magnetism of lithium fluorosulphate LiFeSO <sub>4</sub> F. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	11
50	Spin-orbit torque engineering in $\text{W}/\text{CoFeB}$ heterostructures with $\text{W-Ta}$ or $\text{W-V}$ alloy layers between $\text{W}$ and $\text{CoFeB}$ . <i>NPG Asia Materials</i> , 2021, 13, .	7.9	11
51	Strong perpendicular magnetocrystalline anisotropy of bulk and the (001) surface of $\text{DO}_{22}\text{Mn}_3\text{Ga}$ : a density functional study. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 416003.	1.8	10
52	Hydrogen interaction with selectively desulfurized MoS <sub>2</sub> surface using Ne <sup>+</sup> sputtering. <i>Journal of Applied Physics</i> , 2019, 125, .	2.5	10
53	Photoemission study of the surface band structure of the reconstructed Mo(001) surface. <i>Physical Review B</i> , 1993, 47, 13594-13598.	3.2	9
54	Surface effect on the magnetism of aMnPt <sub>3</sub> -type ordered surface alloy on Pt(001). <i>Physical Review B</i> , 2004, 70, .	3.2	9

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55	Half-metallic ferromagnetism of $(\text{CrP})_1/(\text{GaP})_1$ superlattice: A first-principles study. Journal of Magnetism and Magnetic Materials, 2007, 310, 2138-2140.	2.3	9
56	Magnetocrystalline anisotropy of zinc-blende CrTe (001) surface: A first-principles study. Thin Solid Films, 2011, 519, 8355-8358.	1.8	9
57	Soft x-ray magnetic circular dichroism study of valence and spin states in $\text{FeT}_2\text{O}_4$ ( $\text{T}=\text{V}, \text{Cr}$ ) spinel oxides. Journal of Applied Physics, 2013, 113, 17E116.	2.5	9
58	Tunability of magnetic anisotropy of Co on two-dimensional materials by tetrahedral bonding. Physical Review B, 2019, 99, .	3.2	9
59	Anisotropic behavior of excitons in single-crystal $\hat{\pm}\text{-SnS}$ . AIP Advances, 2020, 10, .	1.3	9
60	Enhanced voltage-controlled magnetic anisotropy via magnetoelasticity in FePt/MgO(001). Physical Review B, 2020, 101, .	3.2	9
61	Magnetism and the Stoner Exchange Parameter of fcc Palladium. Journal of the Korean Physical Society, 2008, 52, 1099-1102.	0.7	9
62	Robust half-metallicities of alkali-metal-based half-Heusler compounds. Physical Review Materials, 2022, 6, .	2.4	9
63	Magnetic and electronic structures of zinc-blende $\text{FeX}$ ( $\text{X}=\text{P}, \text{As}, \text{Sb}$ ) by first principles calculations. Journal of Magnetism and Magnetic Materials, 2006, 304, e146-e148.	2.3	7
64	Magnetocrystalline Anisotropy of $\text{D}_{0\frac{1}{2}}\{\text{Fe}\}_3\text{Si}$ From First-Principles Study. IEEE Transactions on Magnetics, 2011, 47, 2920-2923.	2.1	7
65	$\text{R}^4\text{Mn}_3\text{Fe}$ and $\text{R}^3\text{Mn}_3\text{Fe}$ states	3.2	7
66	Half-Metallicity and Magnetism of Zinc-Blende Cr-Chalcogenide (001) Surfaces: Density Functional Study. Journal of the Korean Physical Society, 2008, 53, 384-387.	0.7	7
67	Possible Magnetism of Be-Doped Boron Nitride Nanotubes. Journal of Nanoscience and Nanotechnology, 2008, 8, 4711-4713.	0.9	6
68	Magnetic anisotropy energy and effective exchange interactions in Co intercalated graphene on $\text{Ir}(1\bar{1}01)$ . Journal of Physics Condensed Matter, 2014, 26, 476003.	1.8	6
69	Magnetocrystalline anisotropy of pure magnetic semiconductors of $\text{MnGeP}_2$ and $\text{MnGeAs}_2$ : A first-principles study. Journal of Magnetism and Magnetic Materials, 2016, 419, 202-209.	2.3	6
70	Simultaneous tuning of the magnetic anisotropy and thermal stability of $\alpha'$ -phase $\text{Fe}_{16}\text{N}_2$ . Scientific Reports, 2021, 11, 7823.	3.3	6
71	Electronic structure of the Mo(001) surface. Physical Review B, 1993, 48, 4755-4759.	3.2	5
72	Thickness effect on magnetocrystalline anisotropy of Co/Pd(111) films: A density functional study. Journal of Applied Physics, 2015, 117, 17E105.	2.5	5

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73	First-principles prediction of rare-earth free permanent magnet: FeNi with enhanced magnetic anisotropy and stability through interstitial boron. AIP Advances, 2021, 11, .	1.3	5
74	Enhancing magnetic anisotropy and stability of $\text{Fe}_3\text{Fe}_{16}\text{N}_2$ phase by Co and V co-substitution. AIP Advances, 2021, 11, .	1.3	5
75	Rippled surface structure and electronic and magnetic properties of Ni <sub>3</sub> Al(001). Physical Review B, 2000, 62, 6982-6985.	3.2	4
76	First-principles calculations on electronic structure and magnetism of $\text{Mn}$ . Journal of Magnetism and Magnetic Materials, 2006, 304, e477-e479.	2.3	4
77	Electron mediated/enhanced ferromagnetism in a hydrogen-annealed Mn:Ge magnetic semiconductor. Journal of Applied Physics, 2011, 109, 063912.	2.5	4
78	The trapping of N <sub>2</sub> molecules and the reduction in its bonding length in Ge(001) due to N <sub>2</sub> <sup>+</sup> ion implantation. Journal of Applied Physics, 2011, 109, .	2.5	4
79	Ultrafast above-transition-temperature resurrection of spin density wave driven by coherent phonon generation in BaFe <sub>2</sub> As <sub>2</sub> . New Journal of Physics, 2014, 16, 043010.	2.9	4
80	Magnetocrystalline anisotropy of 4d/5d transition metals on a Co(0001) surface: A first-principles study. Journal of Applied Physics, 2015, 117, 17A327.	2.5	4
81	Seasonal Pattern of Preterm Births in Korea for 2000-2012. Journal of Korean Medical Science, 2016, 31, 1797.	2.5	4
82	Sulfur-vacancy-dependent geometric and electronic structure of bismuth adsorbed on $\text{MoS}_2$ . Physical Review B, 2018, 97, .	3.2	4
83	Thermally driven homonuclear-stacking phase of $\text{MoS}_2$ through desulfurization. Nanoscale, 2019, 11, 11138-11144.	5.6	4
84	Magnetism of the MnPt <sub>3</sub> (001) Surface: First-Principles Study. Journal of the Korean Physical Society, 2008, 53, 1525-1528.	0.7	4
85	Surface electronic structure and magnetism of NiAs structured MnAs(0001) and MnSb(0001). Journal of Applied Physics, 2007, 101, 09G502.	2.5	3
86	Electronic and magnetic properties of digitally Ti doped InP: A first principles study. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1860-1864.	1.8	3
87	Magnetism and Magnetocrystalline Anisotropy of $\text{d}$ Transition Metal Monolayers on Pt(001): A Density-Functional Study. Journal of Nanoscience and Nanotechnology, 2014, 14, 9011-9013.	0.9	3
88	New synthesis of MnSi <sub>2</sub> thin film and its thermoelectric properties. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2015, 33, .	2.1	3
89	Electric control of magnetism in low-dimensional magnets on ferroelectric surfaces. AIP Advances, 2017, 7, 055816.	1.3	3
90	First-Principles Prediction of Enhanced Magnetic Anisotropy of $\text{Fe}_3\text{Fe}_{16}\text{N}_2$ -Phase $\text{Fe}_3\text{Fe}_{16}\text{N}_2$ , With B and C Impurities. IEEE Transactions on Magnetics, 2021, 57, 1-3.	2.1	3

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91	Magnetism of Co layers Grown on W(001) Surface: Density Functional Study. Journal of the Korean Physical Society, 2010, 56, 1472-1477.	0.7	3
92	Resistivities and magnetoresistances of pure, Co- and V-doped Ge single crystals. Physica Status Solidi (B): Basic Research, 2004, 241, 1518-1520.	1.5	2
93	Oscillatory magnetism of palladium nano-film depending on its film thickness: Density functional study. Journal of Magnetism and Magnetic Materials, 2007, 310, 2262-2264.	2.3	2
94	Electronic origin of the negligible magnetostriction of an electric steel Fe <sub>1-x</sub> Si <sub>x</sub> alloy: A density-functional study. Journal of Applied Physics, 2012, 111, .	2.5	2
95	Electronic structure and magnetism of various surfaces of the catalytic material Pt <sub>3</sub> Ni: Density-functional study. Journal of Magnetism and Magnetic Materials, 2013, 339, 89-93.	2.3	2
96	Density functional theory study of the electronic structure and the thermoelectric properties of strained Mn <sub>4</sub> Si <sub>7</sub> . Journal of the Korean Physical Society, 2016, 69, 402-405.	0.7	2
97	Magnetism and Magnetocrystalline Anisotropy of CoFe Thin Films: A First-principles Study. Journal of the Korean Magnetics Society, 2014, 24, 35-40.	0.0	2
98	First-principles study on magnetocrystalline anisotropy of cobalt films: hcp vs fcc. Current Applied Physics, 2022, 41, 148-155.	2.4	2
99	ALL-ELECTRON LOCAL-DENSITY DETERMINATION OF THE ELECTRONIC STRUCTURE AND SURFACE ENERGY OF ZR(0001). International Journal of Modern Physics B, 1993, 07, 520-523.	2.0	1
100	MBE growth and magnetic properties of GaSb/MnSb superlattices. , 0, , .		1
101	The electronic structure and magnetism of GdSi <sub>2</sub> by first-principles study. Journal of Magnetism and Magnetic Materials, 2006, 304, e31-e33.	2.3	1
102	Analysis of the energy distribution of field electrons from metals and semiconductors. Journal of Vacuum Science & Technology B, 2006, 24, 913.	1.3	1
103	Magneto-transport properties of MnGeP <sub>2</sub> ferromagnetic semiconductor. Journal of Magnetism and Magnetic Materials, 2007, 310, 2117-2119.	2.3	1
104	Magnetocrystalline Anisotropy of <math>\text{LaNi}_5</math> Thin Films: A Density Functional Study. Journal of Nanoscience and Nanotechnology, 2015, 15, 2356-2359.	0.9	1
105	Interface Defect Engineering of MoS <sub>2</sub> Monolayer: Interface Defect Engineering of a Large-scale CVD-grown MoS <sub>2</sub> Monolayer via Residual Sodium at the SiO <sub>2</sub> /Si Substrate (Adv. Mater. Interfaces 14/2021). Advanced Materials Interfaces, 2021, 8, 2170080.	3.7	1
106	Introduction to First-principles Study in Magnetism : A Brief Guide to Nonexperts. Journal of the Korean Magnetics Society, 2017, 27, 190-197.	0.0	1
107	Magnetism and Magnetocrystalline Anisotropy of Ni/Fe(001) Surface: A First Principles Study. Journal of the Korean Magnetics Society, 2015, 25, 101-105.	0.0	1
108	Effects of an electrostatic field on the normal and superconducting states of a Mo-C film. Physical Review B, 1995, 51, 3238-3241.	3.2	0

