

# Jae-Hoon Park

## List of Publications by Year in descending order

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64  
papers

4,543  
citations

257450

24  
h-index

118850

62  
g-index

70  
all docs

70  
docs citations

70  
times ranked

7057  
citing authors

#	ARTICLE	IF	CITATIONS
1	State Induced by Relativistic Spin-Orbit Coupling in Physical Review Letters, 2008, 101, 076402.	7.8	1,332
2	Monodisperse Nanoparticles of Ni and NiO: Synthesis, Characterization, Self-Assembled Superlattices, and Catalytic Applications in the Suzuki Coupling Reaction. Advanced Materials, 2005, 17, 429-434.	21.0	550
3	Large-Scale Synthesis of Uniform and Crystalline Magnetite Nanoparticles Using Reverse Micelles as Nanoreactors under Reflux Conditions. Advanced Functional Materials, 2005, 15, 503-509.	14.9	393
4	Majorana fermions in the Kitaev quantum spin system $\hat{\pm}$ -RuCl <sub>3</sub> . Nature Physics, 2017, 13, 1079-1084.	16.7	279
5	Spin-orbit-torque engineering via oxygen manipulation. Nature Nanotechnology, 2015, 10, 333-338.	31.5	271
6	Magnetism in Mn-doped ZnO bulk samples prepared by solid state reaction. Applied Physics Letters, 2003, 83, 920-922.	3.3	196
7	Twofold van Hove singularity and origin of charge order in topological kagome superconductor CsV <sub>3</sub> Sb <sub>5</sub> . Nature Physics, 2022, 18, 301-308.	16.7	176
8	Orbital and Bonding Anisotropy in a Half-Filled GaFeO <sub>3</sub> Magnetoelectric Ferrimagnet. Physical Review Letters, 2006, 96, 047205.	7.8	145
9	Ferroelectricity Driven by Yd <sup>0</sup> -ness with Rehybridization in YMnO <sub>3</sub> . Physical Review Letters, 2007, 98, 217601.	7.8	118
10	Formation of Pancakelike Ising Domains and Giant Magnetic Coercivity in Ferrimagnetic Physical Review Letters, 2008, 101, 137203.	7.8	98
11	Giant Magnetic Anisotropy Induced by Ligand Physical Review Letters, 2019, 122, 207201.	7.8	72
12	RKKY Ferromagnetism with Ising-Like Spin States in Intercalated Physical Review Letters, 2011, 107, 247201.	7.8	69
13	Electronic Origin of Giant Magnetic Anisotropy in Multiferroic LuFe <sub>2</sub> O <sub>4</sub> . Physical Review Letters, 2009, 103, 207202.	7.8	66
14	Photoemission study of (V <sub>1-x</sub> M <sub>x</sub> ) <sub>2</sub> O <sub>3</sub> (M=Cr,Ti). Physical Review B, 2006, 74, .	3.2	53
15	Simple tuning of carrier type in topological insulator Bi <sub>2</sub> Se <sub>3</sub> by Mn doping. Applied Physics Letters, 2012, 101, .	3.3	51
16	Charge-ordering cascade with spin-orbit Mott dimer states in metallic iridium ditelluride. Nature Communications, 2015, 6, 7342.	12.8	44
17	Electric polarization enhancement in multiferroic CoCr <sub>2</sub> O <sub>4</sub> crystals with Cr-site mixing. Applied Physics Letters, 2009, 94, .	3.3	40
18	Origin of First-Order-Type Electronic and Structural Transitions in Physical Review Letters, 2015, 114, 136401.	7.8	39

#	ARTICLE	IF	CITATIONS
19	<p>Intrinsic Magnetic Cycloids in Multiferroic <math>\text{TbMnO}_3</math> and <math>\text{CuFeO}_2</math></p> <p>Influence of oxygen vacancies on the electronic structure of <math>\text{CuFeO}_2</math></p>	7.8	36
20	<p><math>\text{HfO}_2/\text{FeO}</math> films.</p> <p>Physical Review B, 2007, 76, .</p>	3.2	31
21	<p>Electronic structure and evolution of the orbital state in metallic <math>\text{Ca}_{2-x}\text{Sr}_x\text{RuO}_4</math>.</p> <p>Physical Review B, 2005, 72, .</p>	3.2	30
22	<p>Strain control of Morin temperature in epitaxial <math>\text{La}_{1-x}\text{Fe}_2\text{O}_3</math> (0001) film.</p> <p>Europhysics Letters, 2013, 103, 27007.</p>	2.0	30
23	<p>Tunable high-temperature itinerant antiferromagnetism in a van der Waals magnet.</p> <p>Nature Communications, 2021, 12, 2844.</p>	12.8	29
24	<p>Dimerization-Induced Fermi-Surface Reconstruction in <math>\text{IrTe}_2</math></p> <p>Physical Review Letters, 2014, 113, 266406.</p>	7.8	26
25	<p>2D Percolation Design with Conductive Microparticles for Low-Strain Detection in a Stretchable Sensor.</p> <p>Advanced Functional Materials, 2020, 30, 1908514.</p>	14.9	25
26	<p>Magnetic Origin of Giant Magnetoelectricity in Doped Y-type Hexaferrite <math>\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Fe}_{12}\text{O}_{22}</math></p>		

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37	Temperature dependent phase transition of EuO on MgO(100). Journal of Applied Physics, 2007, 102, 053903.	2.5	11
38	Realization of an atomically flat BaSnO <sub>3</sub> (001) substrate with SnO <sub>2</sub> termination. Applied Physics Letters, 2017, 111, .	3.3	11
39	Decay and renormalization of a longitudinal mode in a quasi-two-dimensional antiferromagnet. Nature Communications, 2021, 12, 5331.	12.8	11
40	Effect of oxidizing the ferromagnetic electrode in magnetic tunnel junctions on tunneling magnetoresistance. Applied Physics Letters, 2012, 100, 172406.	3.3	10
41	Physical properties of the quasi-two-dimensional square lattice antiferromagnet $\text{BaO}_7$ . Physical Review B, 2021, 104, .	3.2	9
42	Microscopic aspect of interface magnetic anisotropy induced by a Pd adlayer on Ni <sup>2+</sup> -Cu(001) films. Physical Review B, 2007, 76, .	3.2	8
43	Multiferroic-Enabled Magnetic Excitons in 2D Quantum-Entangled Van der Waals Antiferromagnet Ni <sub>2</sub> . Advanced Materials, 2022, 34, e2109144.	21.0	8
44	Magnetism of pristine Fe films on GaAs(100). Physical Review B, 2007, 76, .	3.2	7
45	Interfacial nanostructure induced spin-reorientation transition in Ni/Fe/Ni/W(110). Physical Review B, 2011, 83, .	3.2	7
46	Mapping Orbital-Resolved Magnetism in Single Lanthanide Atoms. ACS Nano, 2021, 15, 16162-16171.	14.6	7
47	Direct Observation of Orbital Driven Strong Interlayer Coupling in Puckered Two-Dimensional PdSe <sub>2</sub> . Small, 2022, , 2106053.	10.0	6
48	Superparamagnetism in Co ion-implanted epitaxial anatase TiO <sub>2</sub> thin films. Annalen Der Physik, 2004, 13, 70-71.	2.4	5
49	Multi-state resistance switching and variability analysis of HfO <sub>2</sub> /x based RRAM for ultra-high density memory applications. , 2015, , .		5
50	Ultrahigh-Vacuum-Compatible Diffractometer for Soft X-ray Scattering. Journal of the Korean Physical Society, 2008, 52, 1814-1817.	0.7	5
51	Longitudinal and transverse magnetization components in thin films: A resonant magnetic reflectivity investigation using circularly polarized soft x-rays. Applied Physics Letters, 2010, 96, 042507.	3.3	4
52	Unusual Pressure-Induced Quantum Phase Transition from Superconducting to Charge-Density Wave State in Rare-Earth-Based Heusler $\text{LuPd}$ Compound. Physical Review Letters, 2020, 125, 157001.	7.8	4
53	Effect of antiferromagnetic order on topological electronic structure in Eu-substituted Bi <sub>2</sub> Se <sub>3</sub> single crystals. APL Materials, 2020, 8, 111108.	5.1	4
54	Twin-free Epitaxial LaFeO <sub>3</sub> Films Grown on Orthorhombic GdScO <sub>3</sub> (110) Substrates. Journal of the Korean Physical Society, 2020, 76, 273-276.	0.7	4

#	ARTICLE	IF	CITATIONS
55	Role of the nonmagnetic layer in determining the Landé $g$ -factor in a spin-transfer system. Physical Review B, Magnetic oxide formation at Al	3.2	2
56	Observation of second spin reorientation transition within ultrathin region in Fe films on Ag(001) surface. Journal of Applied Physics, 2014, 115, 233904.	3.2	2
57	Electronic and Magnetic Structure of Double-Perovskite $\text{Sr}_2\text{FeMoO}_6$ Characterized by Neutron Scattering and X-Ray Spectroscopy. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	2
59	Thickness driven spin reorientation transition of epitaxial LaCrO <sub>3</sub> films. Applied Physics Letters, 2018, 112, 112403.	3.3	2
60	Orbital Order Melting at Reduced Dimensions. Nano Letters, 2022, 22, 1059-1066.	9.1	2
61	RKKY Ferromagnetism with Ising-Like Spin States in Intercalated $\text{Fe}_{1/4}\text{TaS}_2$ . , 0, .		1
62	Giant magnetoelastic spin-flop with magnetocrystalline instability in $\text{La}_{1.4}\text{Sr}_{1.6}\text{Mn}_2\text{O}_7$ . Physical Review Materials, 2018, 2, .	2.4	1
63	Direct Observation of Orbital Driven Strong Interlayer Coupling in Puckered Two-Dimensional $\text{PdSe}_2$ (Small 9/2022). Small, 2022, 18, .	10.0	0
64	Multiferroic-Enabled Magnetic Excitons in 2D Quantum-Entangled Van der Waals Antiferromagnet $\text{NiI}_2$ (Adv. Mater. 10/2022). Advanced Materials, 2022, 34, .	21.0	0