Yongseong Choi

List of Publications by Year
in descending order

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116	3,761	147801	138484
papers	citations	31 h-index	58 g-index

117	117	117	5545
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Extraordinary anisotropic magnetoresistance in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>CaMn</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:mi>CaIr</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> heterostructures. Physical Review B, 2022, 105, .	3.2	11
2	Magnetic damping in ferromagnetic/heavy-metal systems: The role of interfaces and the relation to proximity-induced magnetism. Physical Review B, 2022, 105, .	3.2	7
3	Evidence for spin swapping in an antiferromagnet. Nature Physics, 2022, 18, 800-805.	16.7	12
4	GdN/SmN superlattices; influence of a Zeeman/exchange conflict. AIP Advances, 2021, 11, .	1.3	3
5	X-ray reflectivity data analysis using Bayesian inference: The study of induced Pt magnetization in Pt/Co/Pt. Current Applied Physics, 2021, 30, 46-46.	2.4	4
6	Large intrinsic anomalous Hall effect in SrIrO3 induced by magnetic proximity effect. Nature Communications, 2021, 12, 3283.	12.8	34
7	Evidence for quantum spin liquid behaviour in single-layer 1T-TaSe2 from scanning tunnelling microscopy. Nature Physics, 2021, 17, 1154-1161.	16.7	74
8	Strongly anisotropic antiferromagnetic coupling in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>EuFe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> revealed by stress detwinning. Physical Review B, 2021, 104, .	3.2	4
9	Proximity-induced magnetism and the enhancement of damping in ferromagnetic/heavy metal systems. Applied Physics Letters, 2021, 119, .	3.3	10
10	Template Engineering of Metal-to-Insulator Transitions in Epitaxial Bilayer Nickelate Thin Films. ACS Applied Materials & Interfaces, 2021, 13, 54466-54475.	8.0	5
11	Mapping the structural, magnetic and electronic behavior of (Eu_{1â^' x}Ca<sub> x) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Physics Condensed Matter, 2021, 33, 055601.	1.8	2
12	Microscopic piezoelectric behavior of clamped and membrane (001) PMN-30PT thin films. Applied Physics Letters, 2021, 119, .	3.3	5
13	Magnetic Weyl Semimetallic Phase in Thin Films of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Eu</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>7</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Review Letters, 2021, 127, 277204.	7.8	17
14	Iodine orbital moment and chromium anisotropy contributions to CrI3 magnetism. Applied Physics Letters, 2020, 117, 022411.	3.3	8
15	Controlling spin current polarization through non-collinear antiferromagnetism. Nature Communications, 2020, 11, 4671.	12.8	103
16	Controlling symmetry of spin-orbit entangled pseudospin state through uniaxial strain. Physical Review B, 2020, 102, .	3.2	6
17	Photoemission and dynamical mean field theory study of electronic correlations in a t2g5 metal SrRhO3 thin film. Physical Review B, 2020, 101, .	3.2	1
18	Multiferroic behavior in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>EuTi</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> films constrained by symmetry. Physical Review B, 2020, 101, .	3.2	4

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19	Colossal oxygen vacancy formation at a fluorite-bixbyite interface. Nature Communications, 2020, 11, 1371.	12.8	39
20	Spontaneous Hall effect enhanced by local Ir moments in epitaxial Pr2Ir2O7 thin films. Physical Review B, 2020, 101, .	3.2	17
21	Direct Evidence of the Competing Nature between Electronic and Lattice Breathing Order in Rare-Earth Nickelates. Physical Review Letters, 2020, 124, 127601.	7.8	4
22	Interfacial tuning of chiral magnetic interactions for large topological Hall effects in LaMnO ₃ /SrIrO ₃ heterostructures. Science Advances, 2020, 6, eaaz3902.	10.3	50
23	Emergent electric field control of phase transformation in oxide superlattices. Nature Communications, 2020, 11, 902.	12.8	35
24	Strain-Modulated Slater-Mott Crossover of Pseudospin-Half Square-Lattice in (SrIrO3)1/(SrTiO3)1 Superlattices. Physical Review Letters, 2020, 124, 177601.	7.8	10
25	Proximity-induced magnetism in Pt layered with rare-earthâ€“transition-metal ferrimagnetic alloys. Physical Review Research, 2020, 2, .	3.6	7
26	Evolution of structure and magnetism across the metal-insulator transition in the pyrochlore iridate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:msub><mml:mi) Tj ETQq	3.2	8
27	mathvariant="normal">Ir<. Physical Review B, 2019, 100, . Interfacial charge-transfer Mott state in iridateâ€“nickelate superlattices. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19863-19868.	7.1	31
28	Magnetism in iridate heterostructures leveraged by structural distortions. Scientific Reports, 2019, 9, 4263.	3.3	26
29	Anomalous magnetoresistance due to longitudinal spin fluctuations in a Jeffâ€‰=â€‰1/2 Mott semiconductor. Nature Communications, 2019, 10, 5301.	12.8	12
30	Roomâ€Temperature Ferromagnetic Insulating State in Cationâ€Ordered Doubleâ€Perovskite Sr₂Fe₁₊_xRe_{1â^'}_xO₆Films. Advanced Materials, 2019, 31, e1805389.	21.0	21
31	Anomalous Antiferromagnetism in Metallic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>RuO</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></ Determined by Resonant X-ray Scattering. Physical Review Letters, 2019, 122, 017202.	7.8	53
32	Steplike metamagnetic transitions in a honeycomb lattice antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Tb</mml:mi><mml:mn>2</mml:mn></mml:msub></mml: Physical Review Materials, 2019, 3, .	2.4	9
33	Phase Coexistence and Kinetic Arrest in the Magnetostructural Transition of the Ordered Alloy FeRh. Scientific Reports, 2018, 8, 1778.	3.3	25
34	Enhancement and destruction of spin-Peierls physics in a one-dimensional quantum magnet under pressure. Physical Review B, 2018, 97, .	3.2	3
35	Controlling entangled spin-orbit coupling of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>5</mml:mn><mml:mi>d</mml:mi></mml:mrow></mml states with interfacial heterostructure engineering. Physical Review B, 2018, 97, .	3.2	14
36	Decoupling Carrier Concentration and Electron-Phonon Coupling in Oxide Heterostructures Observed with Resonant Inelastic X-Ray Scattering. Physical Review Letters, 2018, 121, 236802.	7.8	22

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37	Effect of Cr Spacer on Structural and Magnetic Properties of Fe/Gd Multilayers. Journal of Experimental and Theoretical Physics, 2018, 127, 742-752.	0.9	8
38	Tunable Infrared Devices via Ferroelectric Domain Reconfiguration. Advanced Optical Materials, 2018, 6, 1800862.	7.3	10
39	Giant magnetostriction effect near onset of spin reorientation in MnBi. Applied Physics Letters, 2018, 112, 192411.	3.3	2
40	Giant magnetic response of a two-dimensional antiferromagnet. Nature Physics, 2018, 14, 806-810.	16.7	44
41	Effect of Evolutionary Anisotropy on Earing Prediction in Cylindrical Cup Drawing. Jom, 2017, 69, 915-921.	1.9	9
42	Surface pinning effect of an antiferromagnetic interlayer exchange coupling in (Ga1â^'x Mn x) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542	0.7	0
43	Tuning Perpendicular Magnetic Anisotropy by Oxygen Octahedral Rotations in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mo		

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55	Slater Insulator in Iridate Perovskites with Strong Spin-Orbit Coupling. Physical Review Letters, 2016, 117, 176603.	7.8	36
56	Pb, Cu, and Zn distributions at humic acid-coated metal-oxide surfaces. Geochimica Et Cosmochimica Acta, 2016, 188, 407-423.	3.9	31
57	Electronic structure, local magnetism, and spin-orbit effects of Ir(IV)-, Ir(V)-, and Ir(VI)-based compounds. Physical Review B, 2015, 91, .	3.2	88
58	Evolution of competing magnetic order in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>J</mml:mi><mml:mi>eff</mml:mi></mml:ms state of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn></mml:r Physical Review B, 2015, 92, .	3.2	33
59	Spin-orbit driven magnetic insulating state with<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>J</mml:mi><mml:mi>eff</mml:mi></mml: in a<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>4</mml:mn><mml:mi>d</mml:mi></mml:mrow></mml: Physical Review B, 2015, 92, .	3.2	10
60	Tuning interfacial domain walls in GdCo/Gd/GdCoâ€² spring magnets. Physical Review B, 2015, 92, .	3.2	15
61	Spin Hall Magnetoresistance in CoFe₂O₄/Pt Films. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	8
62	Itinerant Ferromagnetism in the As4pConduction Band ofBa0.6K0.4Mn2As2Identified by X-Ray Magnetic Circular Dichroism. Physical Review Letters, 2015, 114, 217001.	7.8	26
63	Novel Electronic Behavior Driving<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>NdNiO</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mr Transition. Physical Review Letters, 2015, 115, 036401.	7.8	34
64	Direct evidence for dominant bond-directional interactions in a honeycomb lattice iridate Na2IrO3. Nature Physics, 2015, 11, 462-466.	16.7	321
65	Depth-resolved magnetic and structural analysis of relaxing epitaxialSr2CrReO6. Physical Review B, 2015, 91, .	3.2	6
66	Layer resolved magnetic domain imaging of epitaxial heterostructures in large applied magnetic fields. Applied Physics Letters, 2015, 106, 072408.	3.3	3
67	Performance tests of Mn-added aluminum heat pipe with micro-sized inner fins and thermal fluid for cooling electronic device. Physics of Metals and Metallography, 2014, 115, 1362-1365.	1.0	4
68	Apatite deposition and collagen coating effects in Ti-Al-V and Ti-Al-Nb alloys. Physics of Metals and Metallography, 2014, 115, 1307-1312.	1.0	3
69	Competition between heavy fermion and Kondo interaction in isoelectronic A-site-ordered perovskites. Nature Communications, 2014, 5, 5818.	12.8	15
70	Interfacial exchange coupling in Fe/(Ga,Mn)As bilayers. Physical Review B, 2014, 89, .	3.2	6
71	Magnetic structure in epitaxially strained<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Sr</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">CrReO</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:math>thin films by element-specific XAS and XMCD. Physical Review B, 2014, 89, .	3.2	16
72	Proximity effects on dimensionality and magnetic ordering in Pd/Fe/Pd trialyers. Physical Review B, 2014, 90, .	3.2	24

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73	Exchange bias and asymmetric magnetization reversal in ultrathin Fe films grown on GaAs (001) substrates. Journal of Applied Physics, 2013, 113, .	2.5	7
74	Pt Magnetic Polarization on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi mathvariant="bold">Y</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi>Fe</mml:mi><mml:mn>5</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">O</mml:mi><mml:mn>12</mml:mn></mml:msub></mml:math>and Magnetotransport Characteristics. Physical Review Letters, 2013, 110, 147207.	7.8	200
75	Depth resolved studies of SrTiO3 defects using x-ray excited optical luminescence and cathodoluminescence. Applied Physics Letters, 2013, 102, .	3.3	9
76	Influence of the Fe content on the Gd magnetic ordering temperature in Ni<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mi>x</mml:mi></mml:msub></mml:math>/Gd multilayers. Physical Review B, 2012, 85, .	3.2	11
77	Pressure-induced transformations in amorphous Si-Ge alloy. Physical Review B, 2012, 85, .	3.2	9
78	Grain Accumulation of Selenium Species in Rice (Oryza sativa L.). Environmental Science & Technology, 2012, 46, 5557-5564.	10.0	82
79	Inducing vortex formation in multilayered circular dots using remanent curves. Applied Physics Letters, 2012, 101, 192404.	3.3	7
80	Dimensionality Driven Spin-Flop Transition in Layered Iridates. Physical Review Letters, 2012, 109, 037204.	7.8	117
81	Charge-magnetic interference resonant scattering studies of ferromagnetic crystals and thin films. European Physical Journal: Special Topics, 2012, 208, 141-155.	2.6	7
82	Sulfides from martian and lunar basalts: Comparative chemistry for Ni, Co, Cu, and Se. American Mineralogist, 2011, 96, 932-935.	1.9	8
83	Magnetic structure in Fe/Sm-Co exchange spring bilayers with intermixed interfaces. Physical Review B, 2011, 83, .	3.2	33
84	The effect of fO2 on the partitioning and valence of V and Cr in garnet/melt pairs and the relation to terrestrial mantle V and Cr content. American Mineralogist, 2011, 96, 1278-1290.	1.9	29
85	Phloem transport of arsenic species from flag leaf to grain during grain filling. New Phytologist, 2011, 192, 87-98.	7.3	170
86	Probing Ag nanoparticle surface oxidation in contact with (in)organics: an X-ray scattering and fluorescence yield approach. Journal of Synchrotron Radiation, 2011, 18, 871-878.	2.4	31
87	Partitioning of Eu between augite and a highly spiked martian basalt composition as a function of oxygen fugacity (IW-1 to QFM): Determination of Eu2+/Eu3+ ratios by XANES. American Mineralogist, 2010, 95, 410-413.	1.9	19
88	Enhancement of induced V polarization due to rough interfaces in polycrystalline V/Fe/V trilayers. Physical Review B, 2009, 80, .	3.2	11
89	Quantifying interlayer exchange coupling via layer-resolved hysteresis loops in antiferromagnetically coupled manganite/nickelate superlattices. Applied Physics Letters, 2009, 95, .	3.3	13
90	Application of grazing incidence x-ray fluorescence technique to discriminate and quantify implanted solar wind. Journal of Applied Physics, 2009, 105, 064905.	2.5	8

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91	The effect of ion irradiation and annealing on exchange spring magnets. Journal of Applied Physics, 2009, 105, 023902.	2.5	7
92	Grain Unloading of Arsenic Species in Rice Â. Plant Physiology, 2009, 152, 309-319.	4.8	268
93	Microstructure analysis of a SmCo/Fe exchange spring bilayer. Applied Physics Letters, 2008, 93, .	3.3	35
94	Element-specific recoil loops in Smâ€“Coâˆ•Fe exchange-spring magnets. Journal of Applied Physics, 2008, 103, .	2.5	9
95	Control of the perpendicular magnetic anisotropy of FePd films via Pd capping deposition. Applied Physics Letters, 2008, 92, 162502.	3.3	14
96	Competing interactions and complex magnetism at SrRuO3/SrMnO3 interfaces. Applied Physics Letters, 2008, 93, 192509.	3.3	5
97	Net Mn moment due to canted spins at SrRuO3âˆ•SrMnO3 interfaces. Journal of Applied Physics, 2008, 103, 07B517.	2.5	7
98	Lateral- and layer-resolved magnetization reversals in a spin-valve array. Journal of Applied Physics, 2008, 103, 07C513.	2.5	3
99	Origin of recoil hysteresis loops in Smâ€“Coâˆ•Fe exchange-spring magnets. Applied Physics Letters, 2007, 91, .	3.3	57
100	Ferromagnetic Mn moments at SrRuO3âˆ•SrMnO3 interfaces. Applied Physics Letters, 2007, 91, .	3.3	19
101	X-ray resonant magnetic scattering study of magnetization reversals in a nanoscale spin-valve array. Physical Review B, 2007, 76, .	3.2	9
102	Controlled interface profile in Smâ€“Coâˆ•Fe exchange-spring magnets. Applied Physics Letters, 2007, 91, .	3.3	52
103	Role of diffused Co atoms in improving effective exchange coupling inSmâˆ’Coâˆ•Fespring magnets. Physical Review B, 2007, 75, .	3.2	67
104	Dependence of exchange coupling interaction on micromagnetic constants in hard/soft magnetic bilayer systems. Physical Review B, 2007, 75, .	3.2	36
105	Twisted magnetization states near the compensation temperature ofFeâˆ•Gdmultilayers: Anisotropy and surface-termination effects. Physical Review B, 2006, 73, .	3.2	19
106	Layer-resolved study of magnetic interaction effects in heterostructure dot arrays. Applied Physics Letters, 2006, 88, 112502.	3.3	12
107	Temperature evolution of theGdmagnetization profile in strongly coupledGdâˆ•Femultilayers. Physical Review B, 2004, 70, .	3.2	35
108	Measurement of local magnetization in the buried layer of a pseudo-spin-valve submicron wire. Journal of Applied Physics, 2004, 95, 7028-7030.	2.5	0

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109	X-ray resonant magnetic scattering from structurally and magnetically rough interfaces in multilayered systems. I. Specular reflectivity. Physical Review B, 2003, 68, .	3.2	71
110	Hard x-ray magnetic circular dichroism study of a surface-driven twisted state in Gd/Fe multilayers. Journal of Applied Physics, 2003, 93, 6507-6509.	2.5	14
111	Nanoscale electron-beam-stimulated processing. Applied Physics Letters, 2003, 82, 2326-2328.	3.3	43
112	Characterization of the nanostructures of a lithographically patterned dot array by x-ray pseudo-Kossel lines. Applied Physics Letters, 2003, 82, 982-984.	3.3	13
113	Nature of inhomogeneous magnetic state in artificial Fe/Gd ferrimagnetic multilayers. Physical Review B, 2003, 67, .	3.2	22
114	Magnetization reversal measurements in Gd/Fe multilayer antidot arrays by vector magnetometry using x-ray magnetic circular dichroism. Applied Physics Letters, 2002, 81, 4997-4999.	3.3	17
115	Poly(ethylene glycol)â€“poly(l-lactide) diblock copolymer prevents aggregation of poly(l-lactide) microspheres during ethylene oxide gas sterilization. Biomaterials, 2001, 22, 995-1004.	11.4	23
116	Long-term delivery of all-trans-retinoic acid using biodegradable PLLA/PEG-PLLA blended microspheres. International Journal of Pharmaceutics, 2001, 215, 67-81.	5.2	52