

Yongseong Choi

List of Publications by Year in descending order

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116
papers

3,761
citations

147801

31
h-index

138484

58
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117
all docs

117
docs citations

117
times ranked

5545
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct evidence for dominant bond-directional interactions in a honeycomb lattice iridate Na ₂ IrO ₃ . Nature Physics, 2015, 11, 462-466.	16.7	321
2	Grain Unloading of Arsenic Species in Rice \hat{A} . Plant Physiology, 2009, 152, 309-319.	4.8	268
3	Polar metals by geometric design. Nature, 2016, 533, 68-72.	27.8	262
4	Pt Magnetic Polarization on $Y_3Fe_{12}O_{19}$ and Magnetotransport Characteristics. Physical Review Letters, 2013, 110, 147207.	7.85	200
5	Phloem transport of arsenic species from flag leaf to grain during grain filling. New Phytologist, 2011, 192, 87-98.	7.3	170
6	Dimensionality Driven Spin-Flop Transition in Layered Iridates. Physical Review Letters, 2012, 109, 037204.	7.8	117
7	Atomic-scale control of magnetic anisotropy via novel spin-orbit coupling effect in La _{2/3} Sr _{1/3} MnO ₃ /SrIrO ₃ superlattices. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6397-6402.	7.1	108
8	Tuning Perpendicular Magnetic Anisotropy by Oxygen Octahedral Rotations in $Y_3Fe_{12}O_{19}$		

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19	Controlled interface profile in Sm ²⁺ /Co ²⁺ /Fe exchange-spring magnets. Applied Physics Letters, 2007, 91, .	3.3	52
20	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
21	Giant magnetic response of a two-dimensional antiferromagnet. Nature Physics, 2018, 14, 806-810.	16.7	44
22	Nanoscale electron-beam-stimulated processing. Applied Physics Letters, 2003, 82, 2326-2328.	3.3	43
23	Colossal oxygen vacancy formation at a fluorite-bixbyite interface. Nature Communications, 2020, 11, 1371.	12.8	39
24	Dependence of exchange coupling interaction on micromagnetic constants in hard/soft magnetic bilayer systems. Physical Review B, 2007, 75, .	3.2	36
25	Slater Insulator in Iridate Perovskites with Strong Spin-Orbit Coupling. Physical Review Letters, 2016, 117, 176603.	7.8	36
26	Temperature evolution of the Gd magnetization profile in strongly coupled Gd ³⁺ /Fe multilayers. Physical Review B, 2004, 70, .	3.2	35
27	Microstructure analysis of a SmCo/Fe exchange spring bilayer. Applied Physics Letters, 2008, 93, .	3.3	35
28	Emergent electric field control of phase transformation in oxide superlattices. Nature Communications, 2020, 11, 902.	12.8	35
29	Novel Electronic Behavior Driving NdNiO_3 Mott Transition. Physical Review Letters, 2015, 115, 036401.	12.8	34
30	Large intrinsic anomalous Hall effect in SrIrO ₃ induced by magnetic proximity effect. Nature Communications, 2021, 12, 3283.	12.8	34
31	Magnetic structure in Fe/Sm-Co exchange spring bilayers with intermixed interfaces. Physical Review B, 2011, 83, .	3.2	33
32	Evolution of competing magnetic order in the J_1 state of Sr_2IrO_7 . Physical Review B, 2015, 92, .	3.2	33
33	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
34	Asymmetric magnetic proximity effect in a Pd/Co/Pd trilayer system. Scientific Reports, 2016, 6, 25391.	3.3	31
35	Pb, Cu, and Zn distributions at humic acid-coated metal-oxide surfaces. Geochimica Et Cosmochimica Acta, 2016, 188, 407-423.	3.9	31
36	Interfacial charge-transfer Mott state in iridate/nickelate superlattices. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19863-19868.	7.1	31

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37	The effect of fO ₂ on the partitioning and valence of V and Cr in garnet/melt pairs and the relation to terrestrial mantle V and Cr content. <i>American Mineralogist</i> , 2011, 96, 1278-1290.	1.9	29
38	Itinerant Ferromagnetism in the As ₄ p Conduction Band of Ba _{0.6} K _{0.4} Mn ₂ As ₂ Identified by X-Ray Magnetic Circular Dichroism. <i>Physical Review Letters</i> , 2015, 114, 217001.	7.8	26
39	Magnetism in iridate heterostructures leveraged by structural distortions. <i>Scientific Reports</i> , 2019, 9, 4263.	3.3	26
40	Synthesis and electronic properties of Ruddlesden-Popper strontium iridate epitaxial thin films stabilized by control of growth kinetics. <i>Physical Review Materials</i> , 2017, 1, .	2.4	26
41	Phase Coexistence and Kinetic Arrest in the Magnetostructural Transition of the Ordered Alloy FeRh. <i>Scientific Reports</i> , 2018, 8, 1778.	3.3	25
42	Proximity effects on dimensionality and magnetic ordering in Pd/Fe/Pd trilayers. <i>Physical Review B</i> , 2014, 90, .	3.2	24
43	Poly(ethylene glycol)-poly(l-lactide) diblock copolymer prevents aggregation of poly(l-lactide) microspheres during ethylene oxide gas sterilization. <i>Biomaterials</i> , 2001, 22, 995-1004.	11.4	23
44	Nature of inhomogeneous magnetic state in artificial Fe/Gd ferrimagnetic multilayers. <i>Physical Review B</i> , 2003, 67, .	3.2	22
45	Decoupling Carrier Concentration and Electron-Phonon Coupling in Oxide Heterostructures Observed with Resonant Inelastic X-Ray Scattering. <i>Physical Review Letters</i> , 2018, 121, 236802.	7.8	22
46	Room-temperature Ferromagnetic Insulating State in Cation-ordered Double Perovskite Sr ₂ Fe _{1+x} Re _{1-x} O ₆ Films. <i>Advanced Materials</i> , 2019, 31, e1805389.	11.50	21
47	Twisted magnetization states near the compensation temperature of Fe ²⁺ /Gd multilayers: Anisotropy and surface-termination effects. <i>Physical Review B</i> , 2006, 73, .	3.2	19
48	Ferromagnetic Mn moments at SrRuO ₃ /SrMnO ₃ interfaces. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	19
49	Partitioning of Eu between augite and a highly spiked martian basalt composition as a function of oxygen fugacity (IW-1 to QFM): Determination of Eu ²⁺ /Eu ³⁺ ratios by XANES. <i>American Mineralogist</i> , 2010, 95, 410-413.	1.9	19
50	Effect of biofilm coatings at metal-oxide/water interfaces I: Pb(II) and Zn(II) partitioning and speciation at <i>Shewanella oneidensis</i> /metal-oxide/water interfaces. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 188, 368-392.	3.9	19
51	Magnetization reversal measurements in Gd/Fe multilayer antidot arrays by vector magnetometry using x-ray magnetic circular dichroism. <i>Applied Physics Letters</i> , 2002, 81, 4997-4999.	3.3	17
52	Spontaneous Hall effect enhanced by local Ir moments in epitaxial Pr ₂ Ir ₂ O ₇ thin films. <i>Physical Review B</i> , 2020, 101, .	3.2	17
53	Magnetic Weyl Semimetallic Phase in Thin Films of Eu_2O_7 . http://www.w3.org/1998/Math/MathML Eu_2O_7	7.8	17
54	Magnetic structure in epitaxially strained CrReO_6 thin films by element-specific XAS and XMCD. http://www.w3.org/1998/Math/MathML CrReO_6 thin films by element-specific XAS and XMCD. <i>Physical Review B</i> , 2014, 89, .	3.2	16

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73	Element-specific recoil loops in Sm ²⁺ /Co ²⁺ /Fe exchange-spring magnets. Journal of Applied Physics, 2008, 103, .	2.5	9
74	Pressure-induced transformations in amorphous Si-Ge alloy. Physical Review B, 2012, 85, .	3.2	9
75	Depth resolved studies of SrTiO ₃ defects using x-ray excited optical luminescence and cathodoluminescence. Applied Physics Letters, 2013, 102, .	3.3	9
76	Effect of biofilm coatings at metal-oxide/water interfaces II: Competitive sorption between Pb(II) and Zn(II) at Shewanella oneidensis/metal-oxide/water interfaces. Geochimica Et Cosmochimica Acta, 2016, 188, 393-406.	3.9	9
77	Effect of Evolutionary Anisotropy on Earing Prediction in Cylindrical Cup Drawing. Jom, 2017, 69, 915-921.	1.9	9
78	Steplike metamagnetic transitions in a honeycomb lattice antiferromagnet $\text{Mn}_2\text{Zn}_2\text{O}_7$. Physical Review Materials, 2019, 3, .	2.4	9
79	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
80	Sulfides from martian and lunar basalts: Comparative chemistry for Ni, Co, Cu, and Se. American Mineralogist, 2011, 96, 932-935.	1.9	8
81	Spin Hall Magnetoresistance in CoFe ₂ O ₄ /Pt Films. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	8
82	Understanding temperature and magnetic-field actuated magnetization polarity reversal in the Prussian blue analogue $\text{Cu}_{0.73}\text{Mn}_{0.77}[\text{Fe}(\text{CN})_6]_2\text{H}_2\text{O}$, using XMCD. Materials Research Express, 2016, 3, 036101.	1.6	8
83	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
84	Evolution of structure and magnetism across the metal-insulator transition in the pyrochlore iridate $\text{Ir}_2\text{Tj}_2\text{O}_{10}$. Physical Review B, 2019, 100, .	3.2	8
85	Iodine orbital moment and chromium anisotropy contributions to CrI ₃ magnetism. Applied Physics Letters, 2020, 117, 022411.	3.3	8
86	Net Mn moment due to canted spins at SrRuO ₃ /SrMnO ₃ interfaces. Journal of Applied Physics, 2008, 103, 07B517.	2.5	7
87	The effect of ion irradiation and annealing on exchange spring magnets. Journal of Applied Physics, 2009, 105, 023902.	2.5	7
88	Inducing vortex formation in multilayered circular dots using remanent curves. Applied Physics Letters, 2012, 101, 192404.	3.3	7
89	Charge-magnetic interference resonant scattering studies of ferromagnetic crystals and thin films. European Physical Journal: Special Topics, 2012, 208, 141-155.	2.6	7
90	Exchange bias and asymmetric magnetization reversal in ultrathin Fe films grown on GaAs (001) substrates. Journal of Applied Physics, 2013, 113, .	2.5	7

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91	Proximity-induced magnetism in Pt layered with rare-earth transition-metal ferrimagnetic alloys. Physical Review Research, 2020, 2, .	3.6	7
92	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
93	Interfacial exchange coupling in Fe/(Ga,Mn)As bilayers. Physical Review B, 2014, 89, .	3.2	6
94	Depth-resolved magnetic and structural analysis of relaxing epitaxial Sr ₂ CrReO ₆ . Physical Review B, 2015, 91, .	3.2	6
95	Element-resolved magnetism across the temperature- and pressure-induced spin reorientation in MnBi. Physical Review B, 2016, 94, .	3.2	6
96	Controlling symmetry of spin-orbit entangled pseudospin state through uniaxial strain. Physical Review B, 2020, 102, .	3.2	6
97	Competing interactions and complex magnetism at SrRuO ₃ /SrMnO ₃ interfaces. Applied Physics Letters, 2008, 93, 192509.	3.3	5
98	Discrimination and quantification of Fe and Ni abundances in Genesis solar wind implanted collectors using X-ray standing wave fluorescence yield depth profiling with internal referencing. Chemical Geology, 2016, 441, 246-255.	3.3	5
99	Template Engineering of Metal-to-Insulator Transitions in Epitaxial Bilayer Nickelate Thin Films. ACS Applied Materials & Interfaces, 2021, 13, 54466-54475.	8.0	5
100	Microscopic piezoelectric behavior of clamped and membrane (001) PMN-30PT thin films. Applied Physics Letters, 2021, 119, .	3.3	5
101	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
102	Multiferroic behavior in EuTiO_3 films constrained by symmetry. Physical Review B, 2020, 101, .	3.2	4
103	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
104	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
105	Strongly anisotropic antiferromagnetic coupling in EuFe_2O_7 revealed by stress detwinning. Physical Review B, 2021, 104, .	3.2	4
106	Lateral- and layer-resolved magnetization reversals in a spin-valve array. Journal of Applied Physics, 2008, 103, 07C513.	2.5	3
107	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
108	Layer resolved magnetic domain imaging of epitaxial heterostructures in large applied magnetic fields. Applied Physics Letters, 2015, 106, 072408.	3.3	3

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109	Enhancement and destruction of spin-Peierls physics in a one-dimensional quantum magnet under pressure. <i>Physical Review B</i> , 2018, 97, .	3.2	3
110	GdN/SmN superlattices; influence of a Zeeman/exchange conflict. <i>AIP Advances</i> , 2021, 11, .	1.3	3
111	Giant magnetostriction effect near onset of spin reorientation in MnBi. <i>Applied Physics Letters</i> , 2018, 112, 192411.	3.3	2
112	Mapping the structural, magnetic and electronic behavior of $(\text{Eu}_{1-x}\text{Ca}_x)\text{TjETQq000rgBT}$ / <i>Overlock 10 Tf 50 62</i> Physics Condensed Matter, 2021, 33, 055601.	1.8	2
113	Photoemission and dynamical mean field theory study of electronic correlations in a t_2g_5 metal SrRhO3 thin film. <i>Physical Review B</i> , 2020, 101, .	3.2	1
114	Measurement of local magnetization in the buried layer of a pseudo-spin-valve submicron wire. <i>Journal of Applied Physics</i> , 2004, 95, 7028-7030.	2.5	0
115	Surface pinning effect of an antiferromagnetic interlayer exchange coupling in $(\text{Ga}_{1-x}\text{Mn}_x)\text{TjETQq110.784314rgBT}$ / <i>Overlock 10 Tf 50 62</i>	0.7	0
116	Effect of anisotropic yield function evolution on formability of sheet metal. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	0