

J-W Kim

List of Publications by Year in descending order

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117
papers

5,232
citations

109321

35
h-index

88630

70
g-index

118
all docs

118
docs citations

118
times ranked

6435
citing authors

#	ARTICLE	IF	CITATIONS
1	A strong ferroelectric ferromagnet created by means of spin-orbit lattice coupling. Nature, 2010, 466, 954-958.	27.8	668
2	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
3	Quantifying octahedral rotations in strained perovskite oxide films. Physical Review B, 2010, 82, .	3.2	293
4	Polar metals by geometric design. Nature, 2016, 533, 68-72.	27.8	262
5	A strong ferroelectric ferromagnet created by means of spin-orbit lattice coupling. Nature, 2011, 476, 114-114.	27.8	183
6	Isostructural metal-insulator transition in VO ₂ . Science, 2018, 362, 1037-1040.	12.6	158
7	Enhanced ordering temperatures in antiferromagnetic manganite superlattices. Nature Materials, 2009, 8, 892-897.	27.5	145
8	Charge Order, Dynamics, and Magnetostructural Transition in Multiferroic LuFe ₂ O ₄ . Physical Review Letters, 2008, 101, 087601.	7.8	141
9	As ₂ S ₃ . Physical Review Letters, 2008, 101, 087601.	3.2	132
10	Anisotropy and large magnetoresistance in the narrow-gap semiconductor FeSb ₂ . Physical Review B, 2003, 67, .	3.2	124
11	Charge Order in LuFe ₂ O ₄ : Antiferroelectric Ground State and Coupling to Magnetism. Physical Review Letters, 2008, 101, 227601.	7.8	120
12	Dimensionality Driven Spin-Flop Transition in Layered Iridates. Physical Review Letters, 2012, 109, 037204.	7.8	117
13	Magnetically Driven Metal-Insulator Transition in NaOsO ₃ . Physical Review Letters, 2012, 108, 257209.	7.8	115
14	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
15	Charge Order in LuFe ₂ O ₄ : An Unlikely Route to Ferroelectricity. Physical Review Letters, 2012, 108, 187601.	7.8	105
16	Strain-mediated metal-insulator transition in epitaxial ultrathin films of NdNiO ₃ . Applied Physics Letters, 2010, 96, .	3.3	88
17	Control of octahedral rotations in (LaNiO ₃) _n (TiO ₂) _m superlattices. Physical Review Letters, 2011, 106, 187601.	3.2	87
18	Orbital control in strained ultra-thin LaNiO ₃ /LaAlO ₃ superlattices. Europhysics Letters, 2011, 96, 57004.	2.0	85

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19	Reversible control of magnetic interactions by electric field in a single-phase material. Nature Communications, 2013, 4, 1334.	12.8	67
20	Engineered Mott ground state in a LaTiO ₃ + δ /LaNiO ₃ heterostructure. Nature Communications, 2016, 7, 10418.	12.8	67
21	Magnetic structure of Gd ₅ Ge ₄ . Physical Review B, 2005, 71, .	3.2	59
22	Emergent Superstructural Dynamic Order due to Competing Antiferroelectric and Antiferrodistortive Instabilities in Bulk EuTiO_3 . Physical Review Letters, 2013, 110, 027201.	7.8	57
23	Two-Dimensional Antiferromagnetic Insulator Unraveled from Interlayer Exchange Coupling in Artificial Perovskite Iridate Superlattices. Physical Review Letters, 2017, 119, 027204.	7.8	55
24	Heat capacity study of BaFe_2As_2 Effects of annealing. Physical Review B, 2010, 82, .	3.2	54
25	Local atomic and electronic structures of epitaxial strained LaCoO ₃ thin films. Physical Review B, 2012, 85, .	3.2	54
26	Nature of Ho Magnetism in Multiferroic HoMnO ₃ . Physical Review Letters, 2008, 100, 217201.	7.8	53
27	Microscopic evidence of a strain-enhanced ferromagnetic state in LaCoO ₃ thin films. Applied Physics Letters, 2009, 95, .	3.3	46
28	Pseudospin-lattice coupling in the spin-orbit Mott insulator Sr_2IrO_6 . Physical Review B, 2019, 99, .	2.2	46
29	Giant magnetic response of a two-dimensional antiferromagnet. Nature Physics, 2018, 14, 806-810.	16.7	44
30	Magnetic structural change of Sr ₂ IrO ₄ upon Mn doping. Physical Review B, 2012, 86, .	3.2	43
31	Voltage-Controlled Bistable Thermal Conductivity in Suspended Ferroelectric Thin-Film Membranes. ACS Applied Materials & Interfaces, 2018, 10, 25493-25501.	8.0	39
32	Suppression of superconductivity by anisotropic strain near a nematic quantum critical point. Nature Physics, 2020, 16, 1189-1193.	16.7	39
33	Quantification of octahedral rotations in strained LaAlO ₃ films via synchrotron x-ray diffraction. Physical Review B, 2013, 88, .	3.2	38
34	Structural and electronic origin of the magnetic structures in hexagonal LuFeO_3 . Physical Review B, 2014, 90, .	3.2	38
35	Engineering SrSnO ₃ Phases and Electron Mobility at Room Temperature Using Epitaxial Strain. ACS Applied Materials & Interfaces, 2018, 10, 43802-43808.	8.0	37
36	Crystallographic phase transition within the magnetically ordered state of Ce ₂ Fe ₁₇ . Physical Review B, 2007, 76, .	3.2	36

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55	Pure electronic metal-insulator transition at the interface of complex oxides. Scientific Reports, 2016, 6, 27934.	3.3	22
56	Surface effects on the orbital order in the single-layered manganite La _{0.5} Sr _{1.5} MnO ₄ . Nature Materials, 2007, 6, 972-976.	27.5	20
57	On the structural origin of the single-ion magnetic anisotropy in LuFeO ₃ . Journal of Physics Condensed Matter, 2016, 28, 156001.	1.8	20
58	Surface Atomic Structure and Functionality of Metallic Nanoparticles: A Case Study of Au-Pd Nanoalloy Catalysts. Journal of Physical Chemistry C, 2017, 121, 7854-7866.	3.1	20
59	Magnetic ordering in EuRh_2O_7 by x-ray resonant magnetic scattering. Physical Review B, 2009, 79, .	3.2	19
60	Magnetic structure determination of CaLiOsO_6 using neutron and x-ray scattering. Physical Review B, 2012, 86, .	3.2	19
61	Possible Quantum Paramagnetism in Compressed Sr ₂ IrO ₄ . Physical Review Letters, 2020, 124, 067201.	7.8	19
62	Commensurate antiferromagnetic ordering in $\text{Ba}_3\text{Mg}_2\text{Sb}_2\text{O}_{14}$. Physical Review B, 2010, 82, .	3.2	18
63	Magnetic structures and interplay between rare-earth Ce and Fe magnetism in single-crystal CeFeAsO. Physical Review B, 2013, 88, .	3.2	18
64	Charge order and antiferromagnetism in epitaxial ultrathin films of EuNiO_3 . Physical Review B, 2015, 92, .	3.2	18
65	Spontaneous Hall effect enhanced by local Ir moments in epitaxial Pr ₂ Ir ₂ O ₇ thin films. Physical Review B, 2020, 101, .	3.2	17
66	Magnetic Weyl Semimetallic Phase in Thin Films of Eu_2O_7 . Physical Review Letters, 2021, 127, 277204.	3.2	17
67	The effect of oxygen vacancies on the electronic phase transition in La _{1/3} Sr _{2/3} FeO ₃ films. Applied Physics Letters, 2013, 103, .	3.3	16
68	The transport-structural correspondence across the nematic phase transition probed by elasto X-ray diffraction. Nature Materials, 2021, 20, 1519-1524.	27.5	16
69	Effects of biaxial strain on the improper multiferroicity in LuFeO_3 films studied using the restrained thermal expansion method. Physical Review B, 2017, 95, .	3.2	14
70	Controlling entangled spin-orbit coupling of $\text{d}_{5/2}$ states with interfacial heterostructure engineering. Physical Review B, 2018, 97, .	3.2	14
71	Superconductivity in doped BaFe ₂ As ₂ by tetrahedral geometry design. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21170-21174.	7.1	13
72	Geometrical frustration and piezoelectric response in oxide ferroics. Physical Review Materials, 2020, 4, .	2.4	13

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73	Strongly-coupled quantum critical point in an all-in-all-out antiferromagnet. Nature Communications, 2018, 9, 2953.	12.8	12
74	Anomalous magnetoresistance due to longitudinal spin fluctuations in a Jeffâ€™=â€™1/2 Mott semiconductor. Nature Communications, 2019, 10, 5301.	12.8	12
75	<i>In-situ</i> fabrication and transport properties of (111) Y2Ir2O7 epitaxial thin film. Applied Physics Letters, 2020, 117, .	3.3	12
76	X-ray resonant magnetic scattering study of spontaneous ferrimagnetism. Applied Physics Letters, 2007, 90, 202501.	3.3	11
77	Ultrafast dynamics of localized magnetic moments in the unconventional Mott insulator Sr₂IrO₄. Journal of Physics Condensed Matter, 2016, 28, 32LT01.	1.8	11
78	Application of differential resonant high-energy X-ray diffraction to three-dimensional structure studies of nanosized materials: A case study of Ptâ€™Pd nanoalloy catalysts. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, 553-566.	0.1	11
79	Epitaxial growth of (1 1 1)-oriented spinel CoCr2O4/Al2O3 heterostructures. Applied Physics Letters, 2015, 106, 071603.	3.3	10
80	On the possibility to detect multipolar order in URu2Si2 by the electric quadrupolar transition of resonant elastic x-ray scattering. Physical Review B, 2017, 96, .	3.2	10
81	Comprehensive Electrical Control of Metamagnetic Transition of a Quasiâ€™2D Antiferromagnet by In Situ Anisotropic Strain. Advanced Materials, 2020, 32, e2002451.	21.0	10
82	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
83	Distinct order of Gd4f and Fe3d moments coexisting in GdFe4Al8. Physical Review B, 2005, 72, . Magnetically polarized Ir dopant atoms in superconducting Ba(Fe<math>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 327 Td (xmlns:mml=	3.2	9
84		3.2	9
85	$\text{Sr}_{2}\text{IrO}_{4}$ Nanometer-Thick Sr₂IrO₄ Freestanding Films for Flexible Electronics. ACS Applied Nano Materials, 2020, 3, 6310-6315.	5.0	9
86	Self-Assembled Periodic Nanostructures Using Martensitic Phase Transformations. Nano Letters, 2021, 21, 1246-1252.	9.1	9
87	X-ray resonant magnetic scattering and x-ray magnetic circular dichroism branching ratios, $L_{3}\hat{\cdot}L_{2}$, for heavy rare earths. Journal of Applied Physics, 2005, 97, 10A311.	2.5	8
88	A novel approach for x-ray scattering experiments in magnetic fields utilizing trapped flux in type-II superconductors. Review of Scientific Instruments, 2012, 83, 065103.	1.3	8
89	Phase engineering of rare earth nickelates by digital synthesis. Applied Physics Letters, 2018, 113, 081602.	3.3	8
90	Iodine orbital moment and chromium anisotropy contributions to CrI3 magnetism. Applied Physics Letters, 2020, 117, 022411.	3.3	8

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91	Emergent behavior of LaNiO ₃ in short-periodic nickelate superlattices. APL Materials, 2020, 8, .	5.1	8
92	Magnetic powder diffraction from GdNi ₂ Ge ₂ using x-ray resonant magnetic scattering. Journal of Physics Condensed Matter, 2005, 17, L493-L497.	1.8	7
93	Anisotropic magnetoelastic coupling in single-crystalline CeFeAsO as seen via high-resolution x-ray diffraction. Physical Review B, 2011, 84, .	3.2	7
94	Imaging antiferromagnetic domains in GdNi ₂ Ge ₂ with x-ray resonant magnetic scattering. Applied Physics Letters, 2005, 87, 202505.	3.3	6
95	Surface melting of electronic order in La _{0.5} Sr _{1.5} MnO ₄ . Physical Review B, 2011, 84, .	3.2	6
96	Strong anisotropy within a Heisenberg model in the insulating state of Sr ₂ Ca ₂ IrO ₁₀ . Physical Review B, 2016, 94, .	3.2	6
97	Controlling symmetry of spin-orbit entangled pseudospin state through uniaxial strain. Physical Review B, 2020, 102, .	3.2	6
98	Domain ordering of strained 5 ML SrTiO ₃ films on Si(001). Applied Physics Letters, 2007, 90, 221908.	3.3	5
99	Optical magnons with dominant bond-directional exchange interactions in the honeycomb lattice iridate Sr ₂ Ca ₂ IrO ₁₀ . Physical Review B, 2021, 103, .	3.2	5
100	Template Engineering of Metal-to-Insulator Transitions in Epitaxial Bilayer Nickelate Thin Films. ACS Applied Materials & Interfaces, 2021, 13, 54466-54475.	8.0	5
101	Microscopic piezoelectric behavior of clamped and membrane (001) PMN-30PT thin films. Applied Physics Letters, 2021, 119, .	3.3	5
102	Sr ₂ Ca ₂ IrO ₁₀ superlattice for a model two-dimensional quantum Heisenberg antiferromagnet. Physical Review Research, 2022, 4, .	3.6	5
103	Structural Investigation of Perovskite Manganite and Ferrite Films on Ytria-Stabilized Zirconia Substrates. Journal of the Electrochemical Society, 2012, 159, F436-F441.	2.9	4
104	Multiferroic behavior in EuTiO ₃ films constrained by symmetry. Physical Review B, 2020, 101, .	3.2	4
105	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
106	Strongly anisotropic antiferromagnetic coupling in EuFe ₂ O ₄ revealed by stress detwinning. Physical Review B, 2021, 104, .	3.2	4
107	Controllable Emergent Spatial Spin Modulation in Sr ₂ Ca ₂ IrO ₁₀ by In Situ Shear Strain. Physical Review Letters, 2022, 129, .	7.8	4
108	Magnetic structure of Nd in NdFeAsO studied by x-ray resonant magnetic scattering. Physical Review B, 2019, 100, .	3.2	3

#	ARTICLE	IF	CITATIONS
109	Magnetoelastic coupling and charge correlation lengths in a twin domain of $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ ($x=0.047$): A high-resolution x-ray diffraction study. <i>Physical Review B</i> , 2013, 87, .	3.2	2
110	Tunable Infrared Devices via Ferroelectrics: Tunable Infrared Devices via Ferroelectric Domain Reconfiguration (<i>Advanced Optical Materials</i> 24/2018). <i>Advanced Optical Materials</i> , 2018, 6, 1870094.	7.3	2
111	Giant magnetostriction effect near onset of spin reorientation in MnBi. <i>Applied Physics Letters</i> , 2018, 112, 192411.	3.3	2
112	Local Atomic Configuration Control of Superconductivity in the Undoped Pnictide Parent Compound BaFeAs_2 . <i>ACS Applied Electronic Materials</i> , 2022, 4, 1511-1517.	4.3	2
113	Magnetic ordering and structural distortion in a PrFeAsO single crystal studied by neutron and x-ray scattering. <i>Physical Review B</i> , 2021, 103, .	3.2	1
114	Epitaxial growth and antiferromagnetism of Sn-substituted perovskite iridate $\text{SrIr}_{0.8}\text{Sn}_{0.2}\text{O}_3$. <i>Physical Review Materials</i> , 2019, 3, .	2.4	1
115	Emergent interlayer magnetic order via strain-induced orthorhombic distortion in the Mott insulator Sr_2VO_5 . <i>Physical Review B</i> , 2022, 105, .	3.2	1
116	Probing Electronic and Magnetic Transitions of Short Periodic Nickelate Superlattices Using Synchrotron X-rays. <i>Synchrotron Radiation News</i> , 2020, 33, 25-29.	0.8	0
117	Quantitative relationship between structural orthorhombicity, shear modulus, and heat capacity anomaly of the nematic transition in iron-based superconductors. <i>Physical Review B</i> , 2022, 105, .	3.2	0