

Jae-Wook Kim

List of Publications by Year in descending order

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66
papers

1,796
citations

304743

22
h-index

276875

41
g-index

66
all docs

66
docs citations

66
times ranked

3192
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Nb-doping on electric and magnetic properties in multi-ferroic BiFeO ₃ ceramics. Solid State Communications, 2005, 135, 133-137.	1.9	218
2	Non-hysteretic colossal magnetoelectricity in a collinear antiferromagnet. Nature Communications, 2014, 5, 3201.	12.8	106
3	Evidence for dominant Pauli paramagnetic effect in the upper critical field of single-crystalline FeTe . Physical Review B, 2010, 81, .	3.2	101
4	Epitaxial Stabilization of a New Multiferroic Hexagonal Phase of TbMnO ₃ Thin Films. Advanced Materials, 2006, 18, 3125-3129.	21.0	95
5	Pauli-limiting effects in the upper critical fields of a clean LiFeAs single crystal. Physical Review B, 2011, 84, .	3.2	93
6	Interfacial Ferromagnetism and Exchange Bias in CaRuO_3 . Physical Review Letters, 2012, 109, 197202.	7.8	82
7	Nature and evolution of incommensurate charge order in manganites visualized with cryogenic scanning transmission electron microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1445-1450.	7.1	68
8	High-Temperature Terahertz Optical Diode Effect without Magnetic Order in Polar FeZnMoO_8 . Physical Review Letters, 2018, 120, 037601.	7.8	36
9	Image registration of low signal-to-noise cryo-STEM data. Ultramicroscopy, 2018, 191, 56-65.	1.9	59
10	Successive Magnetic-Field-Induced Transitions and Colossal Magnetoelectric Effect in NiO . Physical Review Letters, 2015, 115, 137201.	7.8	58
11	Bending and breaking of stripes in a charge ordered manganite. Nature Communications, 2017, 8, 1883.	12.8	51
12	Vortex ferroelectric domains, large-loop weak ferromagnetic domains, and their decoupling in hexagonal (Lu, Sc)FeO ₃ . Npj Quantum Materials, 2018, 3, .	5.2	50
13	Polar and phase domain walls with conducting interfacial states in a Weyl semimetal MoTe ₂ . Nature Communications, 2019, 10, 4211.	12.8	50
14	Observation of a multiferroic critical end point. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 15573-15576.	7.1	47
15	Topological defects at octahedral tilting plethora in bi-layered perovskites. Npj Quantum Materials, 2016, 1, .	5.2	47
16	Two-dimensional spin liquid behaviour in the triangular-honeycomb antiferromagnet TbInO ₃ . Nature Physics, 2019, 15, 262-268.	16.7	47
17	Interrelation between domain structures and polarization switching in hybrid improper ferroelectric Ca ₃ (Mn,Ti)O ₇ . Applied Physics Letters, 2017, 110, .	3.3	43
18	Temperature-driven topological transition in 1T'-MoTe ₂ . Npj Quantum Materials, 2018, 3, .	5.2	36

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19	Record High-Proximity-Induced Anomalous Hall Effect in (BixSb1-x)2Te3 Thin Film Grown on CrGeTe3 Substrate. Nano Letters, 2019, 19, 4567-4573.	9.1	34
20	Dielectric and magnetic properties in Ta-substituted BiFeO3 ceramics. Journal of Materials Research, 2007, 22, 3397-3403.	2.6	31
21	Soft antiphase tilt of oxygen octahedra in the hybrid improper multiferroic CaMn_3O_7 . Physical Review B, 2018, 97, .	3.2	27
22	Nonreciprocal directional dichroism of a chiral magnet in the visible range. Npj Quantum Materials, 2020, 5, .	5.2	24
23	Criticality in a disordered quantum antiferromagnet studied by neutron diffraction. Physical Review B, 2013, 88, .	3.2	21
24	Manifestation of magnetic quantum fluctuations in the dielectric properties of a multiferroic. Nature Communications, 2014, 5, 4419.	12.8	21
25	Topological spin/structure couplings in layered chiral magnet $\text{Cr}_{1/3}\text{TaS}_2$: The discovery of spiral magnetic superstructure. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	21
26	Magnetic properties of Sr3NiIrO6 and Sr3CoIrO6: Magnetic hysteresis with coercive fields of up to 55 T. Physical Review B, 2016, 94, .	3.2	20
27	Isotropic and anisotropic spins in CaMn_3O_7 . Physical Review B, 2018, 98, .	3.2	17
28	Metastable states in the frustrated triangular compounds $\text{CaMn}_6\text{O}_{13}$ and CaMn_3O_7 . Physical Review B, 2018, 98, .	3.2	17
29	Specific heat of a YCrO3 single crystal as investigated by a SiN membrane based microcalorimeter. Thermochemica Acta, 2007, 455, 2-6.	2.7	16
30	Magnetic-field-induced phases in anisotropic triangular antiferromagnets: Application to CuCrO_2 . Physical Review B, 2014, 89, .	3.2	15
31	Covalency-driven collapse of strong spin-orbit coupling in face-sharing iridium octahedra. Physical Review B, 2018, 98, .	3.2	15
32	Spin Liquid State and Topological Structural Defects in Hexagonal TbInO_3 . Physical Review X, 2019, 9, .	8.9	14
33	Pressure-induced decoupling of rare-earth moments and Mn spins in multiferroic GdMn_2O_5 . Physical Review B, 2015, 92, .	3.2	13
34	Determination of temperature-dependent thermal conductivity of a BaSnO_3 single crystal by using the 3 σ method. Thermochemica Acta, 2014, 585, 16-20.	2.7	12
35	Excitations of Intercalated Metal Monolayers in Transition Metal Dichalcogenides. Nano Letters, 2021, 21, 99-106.	9.1	12
36	Orphan Spins in the $\text{S}_5\text{CaFe}_2\text{O}_{13}$ Antiferromagnet. Physical Review Letters, 2017, 119, 257204.	7.8	11

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55	New design of a microcalorimeter for measuring absolute heat capacity from 300 to 550K. Thermochemica Acta, 2015, 603, 244-252.	2.7	4
56	Detecting low concentrations of plutonium hydride with magnetization measurements. Journal of Applied Physics, 2015, 117, .	2.5	4
57	Enhanced accuracy in a silicon-nitride-membrane-based microcalorimeter with variation of lateral layout. Thermochemica Acta, 2009, 490, 1-7.	2.7	3
58	Atomic-Scale Observation of Topological Vortices in the Incommensurate Charge Density Wave of 2H-TaSe_2 . Nano Letters, 2020, 20, 4801-4808.	9.1	3
59	Bilayer Square Lattice $\text{Tb}_2\text{SrAl}_2\text{O}_7$ with Structural Zr_8 Vortices and Magnetic Frustration. Chemistry of Materials, 2022, 34, 1225-1234.	6.7	3
60	Selective observation of surface and bulk bands in polar WTe_2 by laser-based spin- and angle-resolved photoemission spectroscopy. Physical Review B, 2022, 105, .	0.2	0
61	In situ synthesis and superconducting properties of MgB_2 fibers. Physica C: Superconductivity and Its Applications, 2006, 445-448, 793-796.	1.2	1
62	Advances in Mapping Periodic Structural Modulations of Atomic Lattices. Microscopy and Microanalysis, 2016, 22, 552-553.	0.4	0
63	Mapping Picometer Scale Periodic Lattice Distortions with Aberration Corrected Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2017, 23, 420-421.	0.4	0
64	Emergent Phase Coherence of Stripe Order in Manganites Revealed with Cryogenic Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2017, 23, 1630-1631.	0.4	0
65	Atomic Scale Tracking of a Charge Order Transition with Continuously Variable Temperature Cryo-STEM. Microscopy and Microanalysis, 2020, 26, 2034-2035.	0.4	0
66	Tracking motion of topological defects in a stripe charge-ordered phase with continuously variable temperature cryo-STEM. Microscopy and Microanalysis, 2021, 27, 924-926.	0.4	0