

Jae-Wook Kim

List of Publications by Year in descending order

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citations

304743

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times ranked

3192
citing authors

#	ARTICLE	IF	CITATIONS
1	Bi-layer Square Lattice $Tb_2SrAl_2O_7$ with Structural Z_8 Vortices and Magnetic Frustration. Chemistry of Materials, 2022, 34, 1225-1234.	6.7	3
2	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, .	10.2	12
3	Excitations of Intercalated Metal Monolayers in Transition Metal Dichalcogenides. Nano Letters, 2021, 21, 99-106.	9.1	12
4	Evolution of topological defects at two sequential phase transitions of Nd_2O_7 . Physical Review Research, 2021, 3, .	3.6	5
5	Large Orbital Magnetic Moment and Strong Perpendicular Magnetic Anisotropy in Heavily Intercalated $FexTIS_2$. Journal of Physical Chemistry C, 2021, 125, 12929-12936.	3.1	5
6	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
7	Crystal-field excitations and vibronic modes in the triangular-lattice spin-liquid candidate $TbInO_3$. Physical Review B, 2021, 104, .	10.2	12
8	Helical versus collinear antiferromagnetic order tuned by magnetic anisotropy in polar and chiral Ni_2O_9 . Physical Review Materials, 2021, 5, .	2.4	5
9	Topological spin/structure couplings in layered chiral magnet $Cr_{1/3}TaS_2$: The discovery of spiral magnetic superstructure. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	21
10	Noncollinear antiferromagnetic order in the buckled honeycomb lattice of magnetoelectric Co_2O_9 determined by single-crystal neutron diffraction. Physical Review B, 2020, 102, .	8.9	12
11	Atomic Scale Tracking of a Charge Order Transition with Continuously Variable Temperature Cryo-STEM. Microscopy and Microanalysis, 2020, 26, 2034-2035.	0.4	0
12	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
13	Nonreciprocal directional dichroism of a chiral magnet in the visible range. Npj Quantum Materials, 2020, 5, .	5.2	24
14	Random singlet state in $Ba_5CuIr_3O_{12}$ single crystals. Physical Review B, 2020, 101, .	3.2	6
15	Spin Liquid State and Topological Structural Defects in Hexagonal $TbInO_3$. Physical Review X, 2019, 9, .	8.9	14
16	Spin-liquid-like state in pure and Mn-doped $TbInO_3$ with a nearly triangular lattice. Physical Review B, 2019, 100, .	10.2	10
17	Proper ferroelectricity in AX_2O_7 . Physical Review B, 2019, 100, .	10.2	10

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19	Two-dimensional spin liquid behaviour in the triangular-honeycomb antiferromagnet TbInO ₃ . Nature Physics, 2019, 15, 262-268.	16.7	47
20	Record High-Proximity-Induced Anomalous Hall Effect in (Bi _x Sb _{1-x}) ₂ Te ₃ Thin Film Grown on CrGeTe ₃ Substrate. Nano Letters, 2019, 19, 4567-4573.	9.1	34
21	High-Temperature Terahertz Optical Diode Effect without Magnetic Order in Polar FeZnMoO_8 . Physical Review Letters, 2019, 122, 027601.	3.0	3
22	Soft antiphase tilt of oxygen octahedra in the hybrid improper multiferroic $\text{Ca}_3\text{Mn}_7\text{O}_{27}$. Physical Review B, 2018, 97, .	3.2	27
23	Temperature-driven topological transition in 1T'-MoTe ₂ . Npj Quantum Materials, 2018, 3, .	5.2	36
24	Magnetic excitations of the quantum spin chain in $\text{Sr}_3\text{Cu}_2\text{O}_7$. Physical Review B, 2018, 97, .	3.2	8
25	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
26	Covalency-driven collapse of strong spin-orbit coupling in face-sharing iridium octahedra. Physical Review B, 2018, 98, .	3.2	15
27	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
28	Nonequivalent Spin Exchanges of the Hexagonal Spin Lattice Affecting the Low-Temperature Magnetic Properties of RInO ₃ (R = Gd, Tb, Dy): Importance of Spin-Orbit Coupling for Spin Exchanges between Rare-Earth Cations with Nonzero Orbital Moments. Inorganic Chemistry, 2018, 57, 9260-9265.	4.0	11
29	Metastable states in the frustrated triangular compounds $\text{Ca}_3\text{Mn}_6\text{O}_{17}$ and $\text{Ca}_3\text{Mn}_7\text{O}_{27}$. Physical Review B, 2018, 98, .	3.2	17
30	Image registration of low signal-to-noise cryo-STEM data. Ultramicroscopy, 2018, 191, 56-65.	1.9	59
31	Interrelation between domain structures and polarization switching in hybrid improper ferroelectric Ca ₃ (Mn,Ti) ₂ O ₇ . Applied Physics Letters, 2017, 110, .	3.3	43
32	Vibronic coupling and band gap trends in CuGeO_3 nanorods. Physical Review B, 2017, 96, .	3.2	15
33	Bending and breaking of stripes in a charge ordered manganite. Nature Communications, 2017, 8, 1883.	12.8	51
34	Mapping Picometer Scale Periodic Lattice Distortions with Aberration Corrected Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2017, 23, 420-421.	0.4	0
35	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
36	Orphan Spins in the Antiferromagnet CaFe_2O_7 . Physical Review Letters, 2017, 119, 257204.	7.8	11

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37	Advances in Mapping Periodic Structural Modulations of Atomic Lattices. Microscopy and Microanalysis, 2016, 22, 552-553.	0.4	0
38	Topological defects at octahedral tilting plethora in bi-layered perovskites. Npj Quantum Materials, 2016, 1, .	5.2	47
39	Magnetic properties of Sr ₃ NiIrO ₆ and Sr ₃ CoIrO ₆ : Magnetic hysteresis with coercive fields of up to 55 T. Physical Review B, 2016, 94, .	3.2	20
40	Partially disordered antiferromagnetism and multiferroic behavior in a frustrated Ising system SC_2NH_2 . Physical Review B, 2016, 93, .	3.2	18
41	Pressure Effect on Ferroelectric Properties of GdMn ₂ O ₅ and TmMn ₂ O ₅ . IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	5
42	Pressure-induced decoupling of rare-earth moments and Mn spins in multiferroic $GdMn_2O_5$. Physical Review B, 2015, 92, .	3.2	13
43	Successive Magnetic-Field-Induced Transitions and Colossal Magnetoelectric Effect in Ni_3Mn . Physical Review Letters, 2015, 115, 137201.	7.8	58
44	New design of a microcalorimeter for measuring absolute heat capacity from 300 to 550K. Thermochimica Acta, 2015, 603, 244-252.	2.7	4
45	Detecting low concentrations of plutonium hydride with magnetization measurements. Journal of Applied Physics, 2015, 117, .	2.5	4
46	Multiferroicity with coexisting isotropic and anisotropic spins in $Ca_3CoMn_2O_{12}$. Physical Review B, 2014, 90, 104411.	3.2	17
47	Non-hysteretic colossal magnetoelectricity in a collinear antiferromagnet. Nature Communications, 2014, 5, 3201.	12.8	106
48	Manifestation of magnetic quantum fluctuations in the dielectric properties of a multiferroic. Nature Communications, 2014, 5, 4419.	12.8	21
49	Determination of temperature-dependent thermal conductivity of a BaSnO ₃ single crystal by using the 3 μ m method. Thermochimica Acta, 2014, 585, 16-20.	2.7	12
50	Magnetic-field-induced phases in anisotropic triangular antiferromagnets: Application to $CuCrO_2$. Physical Review B, 2014, 89, .	3.2	15
51	Criticality in a disordered quantum antiferromagnet studied by neutron diffraction. Physical Review B, 2013, 88, .	3.2	21
52	Interfacial Ferromagnetism and Exchange Bias in $CaRuO_3$. Physical Review Letters, 2012, 109, 197202.	7.8	82
53	Pauli-limiting effects in the upper critical fields of a clean LiFeAs single crystal. Physical Review B, 2011, 84, .	3.2	93
54	Nearly isotropic upper critical fields in a SrFe _{1.85} Co _{0.15} As ₂ single crystal. Physica C: Superconductivity and Its Applications, 2010, 470, S317-S319.	1.2	9

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55	Evidence for dominant Pauli paramagnetic effect in the upper critical field of single-crystalline FeTe . Physical Review B, 2010, 81, .	3.2	101
56	Theory of magnetic-field-induced critical end point in BiMn . Physical Review B, 2009, 79, .	2.7	7
57	A new heat capacity measurement scheme based on the scanning relaxation method for the Si^{14}N membrane microcalorimeter at high temperatures up to 700K. Thermochemica Acta, 2009, 492, 79-84.	2.7	5
58	Enhanced accuracy in a silicon-nitride-membrane-based microcalorimeter with variation of lateral layout. Thermochemica Acta, 2009, 490, 1-7.	2.7	3
59	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
60	Formation of hexagonal phase of TbMnO_3 thin film and its multiferroic properties. Journal of Materials Research, 2007, 22, 2156-2162.	2.6	5
61	Dielectric and magnetic properties in Ta-substituted BiFeO_3 ceramics. Journal of Materials Research, 2007, 22, 3397-3403.	2.6	31
62	Specific heat of a YCrO_3 single crystal as investigated by a Si^{14}N membrane based microcalorimeter. Thermochemica Acta, 2007, 455, 2-6.	2.7	16
63	Evolution of Ferroelectric and Antiferromagnetic Phases of TbMn_2O_5 Under High Magnetic Field up to 45 T. Ferroelectrics, 2006, 336, 153-159.	0.6	5
64	In situ synthesis and superconducting properties of MgB_2 fibers. Physica C: Superconductivity and Its Applications, 2006, 445-448, 793-796.	1.2	1
65	Epitaxial Stabilization of a New Multiferroic Hexagonal Phase of TbMnO_3 Thin Films. Advanced Materials, 2006, 18, 3125-3129.	21.0	95
66	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