

# Bongjae Kim

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

813  
citations

471509

17  
h-index

552781

26  
g-index

51  
all docs

51  
docs citations

51  
times ranked

1428  
citing authors

#	ARTICLE	IF	CITATIONS
1	Anisotropic magnetic couplings and structure-driven canted to collinear transitions in $\text{Sr}_2\text{IrO}_7$ magnetically constrained noncollinear DFT. Physical Review B, 2015, 92, .	3.2	170
2	Converged $G$ - $W$ quasiparticle energies for transition metal oxide perovskites. Physical Review Materials, 2018, 2, .	4.1	45
3	Relativistic $G$ - $W$ +BSE study of the optical properties of Ruddlesden-Popper iridates. Physical Review Materials, 2018, 2, .	4.1	40
4	Dimensionality-strain phase diagram of strontium iridates. Physical Review B, 2017, 95, .	3.2	37
5	Valence states and spin structure of spinel $\text{Fe}_2\text{O}_4$ with different orbital degrees of freedom. Physical Review B, 2012, 85, .	3.2	36
6	Lifshitz transition driven by spin fluctuations and spin-orbit renormalization in $\text{NaOsO}_3$ . Physical Review B, 2016, 94, .	3.2	34
7	Large enhancement of the photovoltaic effect in ferroelectric complex oxides through bandgap reduction. Scientific Reports, 2016, 6, 28313.	3.3	34
8	Valence and spin states, and the metal-insulator transition in ferromagnetic $\text{La}_{2-x}\text{Sr}_x\text{MnNiO}_6$ ( $x=0,0.2$ ). Physical Review B, 2009, 80, .	3.2	32
9	Induced by local structure in a quasi-one-dimensional Ising chain system: $\text{La}_{1-x}\text{Co}_x\text{V}_2\text{O}_7$ . Physical Review B, 2010, 81, .	3.2	30
10	Electron and hole doping in the relativistic Mott insulator $\text{Sr}_2\text{IrO}_4$ . Physical Review B, 2010, 81, .	3.2	27
11	Anisotropy of magnetic interactions and symmetry of the order parameter in unconventional superconductor $\text{Sr}_2\text{RuO}_4$ . Npj Quantum Materials, 2017, 2, .	5.2	24
12	Colossal angular magnetoresistance in ferrimagnetic nodal-line semiconductors. Nature, 2021, 599, 576-581.	27.8	23
13	Size-dependent structural evolution of the biomineralized iron-core nanoparticles in ferritins. Applied Physics Letters, 2013, 102, .	3.3	22
14	Valence states and electronic structures of Co and Mn substituted spin gapless semiconductor $\text{PbPdO}_{2-x}$ . Applied Physics Letters, 2014, 104, 022411.	3.3	22
15	Electronic structure and magnetic properties of hole-carrier-doped $\text{La}_{1-x}\text{Sr}_x\text{VO}_4$ . Physical Review B, 2010, 81, .	3.2	21
16	Substrate-tuning of correlated spin-orbit oxides revealed by optical conductivity calculations. Scientific Reports, 2016, 6, 27095.	3.3	21
17	Strain-induced tuning of the electronic Coulomb interaction in $\text{Sr}_3\text{Ir}_2\text{O}_{10}$ transition metal oxide perovskites. Physical Review B, 2018, 98, .	4.2	18
18	In Situ Growth of Nanostructured $\text{BiVO}_4$ $\leftarrow$ $\text{Bi}_2\text{O}_3$ Mixed-Phase via Nonequilibrium Deposition Involving Metal Exsolution for Enhanced Photoelectrochemical Water Splitting. ACS Applied Materials & Interfaces, 2019, 11, 44069-44076.	8.0	18

#	ARTICLE	IF	CITATIONS
19	Valence-state transition in SrMn $1-x$ Mo $x$ O $3$ ( $0 \leq x \leq 0.5$ ) investigated by soft x-ray absorption spectroscopy. Physical Review B, 2009, 80, .	3.2	17
20	Temperature-dependent magnetic circular dichroism study of ferromagnetic double perovskite La $2$ MnNiO $6$ . Journal of Applied Physics, 2010, 107, . Termination-independent electronic and magnetic properties of ultrathin $\text{LaMnO}_3$ films	2.5	15
21	Magnetic properties of bilayer $\text{LaMnO}_3$ films on $\text{SrRuO}_3$ . Physical Review B, 2010, 81, .	3.2	15
22	Photoemission spectroscopy study of metal-insulator transition in $\text{LaMnO}_3$ . Physical Review B, 2010, 81, .	3.2	15
23	Role of Coulomb correlations in the charge density wave of CuTe. Physical Review B, 2019, 100, .	3.2	12
24	Pressure-induced spin transition and site-selective metallization in CoCl $2$ . Scientific Reports, 2019, 9, 5448.	3.3	11
25	Comparative <i>ab initio</i> study of the structural, electronic, magnetic, and dynamical properties of $\text{LiOsO}_3$ and $\text{NaOsO}_3$ . Physical Review Materials, 2020, 4, .	2.4	11
26	Large-gap insulating dimer ground state in monolayer IrTe $2$ . Nature Communications, 2022, 13, 906.	12.8	11
27	Electronic structures and magnetic properties of a ferromagnetic insulator: La $2$ MnNiO $6$ . Journal of Applied Physics, 2009, 105, 07E515.	2.5	10
28	Soft x-ray absorption spectroscopy study of Mn-rich SrMn $1-x$ Co $x$ O $3$ . Physical Review B, 2010, 81, .	7.8	10
29	Soft x-ray magnetic circular dichroism study of valence and spin states in Fe $2$ O $4$ (T $\hat{a}$ %, Cr) spinel oxides. Journal of Applied Physics, 2013, 113, 17E116.	3.2	9
30	Effects of In $^{3+}$ site occupancy on the magnetic properties of M-type strontium hexaferrites. AIP Advances, 2020, 10, .	1.3	9
31	A Polar Magnetic and Insulating Double Corundum Oxide: Mn $_{2-x}$ MnSbO $_6$ with Ordered Mn(II) and Mn(III) Ions. Chemistry of Materials, 2021, 33, 6522-6529.	6.7	9
32	Competing magnetic interactions in a spin- $1/2$ square lattice: Hidden order in $\text{Sr}_2\text{IrO}_6$ . Physical Review B, 2017, 96, .	3.2	8
33	Is the ground state of 5 d 4 double-perovskite Iridate Ba $_2$ YrO $_6$ magnetic or nonmagnetic?. Journal of Magnetism and Magnetic Materials, 2018, 454, 66-70.	2.3	8
34	Reversible magnetoelectric switching in multiferroic three-dimensional nanocup heterostructure films. NPG Asia Materials, 2019, 11, .	7.9	8

#	ARTICLE	IF	CITATIONS
37	Quantification of Coulomb interactions in layered lithium and sodium battery cathode materials. Physical Review Materials, 2021, 5, .	2.4	8
38	Soft x-ray absorption spectroscopy study of the electronic structures of the MnFe Prussian blue analogs <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mrow><mml:mo>(</mml:mo><mml:msub><mml:mi>Tj ETQq		