

Sungbin Lee

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,179
citations

430874

18
h-index

377865

34
g-index

41
all docs

41
docs citations

41
times ranked

1657
citing authors

#	ARTICLE	IF	CITATIONS
1	Higher-Order Topological Insulator in Twisted Bilayer Graphene. Physical Review Letters, 2019, 123, 216803.	7.8	173
2	Generic quantum spin ice. Physical Review B, 2012, 86, .	3.2	168
3	Landau Theory of Charge and Spin Ordering in the Nickelates. Physical Review Letters, 2011, 106, 016405.	7.8	94
4	Metal-insulator transition in a two-band model for the perovskite nickelates. Physical Review B, 2011, 84, .	3.2	93
5	Interplay of quantum criticality and geometric frustration in columbite. Nature Physics, 2010, 6, 702-706.	16.7	57
6	Conduction-band edge and Shubnikov-de Haas effect in low-electron-density SrTiO ₃ . Physical Review B, 2013, 88, .	3.2	57
7	Optical conductivity of LaNiO ₃ . Coherent transport and correlation driven mass enhancement. Physical Review B, 2010, 82, .	3.2	54
8	Theory of the ordered phase in A-site antiferromagnetic spinels. Physical Review B, 2008, 78, .	3.2	39
9	Dimer Mott insulator in an oxide heterostructure. Physical Review B, 2013, 87, .	3.2	38
10	RKKY Interactions and the Anomalous Hall Effect in Metallic Rare-Earth Pyrochlores. Physical Review Letters, 2013, 111, 196601.	7.8	38
11	Order-by-disorder and magnetic field response in the Heisenberg-Kitaev model on a hyperhoneycomb lattice. Physical Review B, 2014, 89, .	3.2	33
12	Unveiling hidden multipolar orders with magnetostriction. Nature Communications, 2019, 10, 4092.	12.8	33
13	Landau theory of multipolar orders in Pr ₂ VO ₇ .		

#	ARTICLE	IF	CITATIONS
19	Seebeck coefficient of a quantum confined, high-electron-density electron gas in SrTiO ₃ . Applied Physics Letters, 2012, 100, 161601.	3.3	15
20	Pressure-induced topological superconductivity in the spin-orbit Mott insulator GaTa ₄ Se ₈ . Npj Quantum Materials, 2020, 5, .	5.2	14
21	Higher-Order Topological Corner State Tunneling in Twisted Bilayer Graphene. Carbon, 2021, 174, 260-265.	10.3	14
22	Hinge magnons from noncollinear magnetic order in a honeycomb antiferromagnet. Physical Review B, 2021, 104, .	3.2	13
23	Theory of magnetostriction for multipolar quantum spin ice in pyrochlore materials. Physical Review Research, 2020, 2, .	3.6	13
24	Emergent quantum phases in a frustrated \mathbb{Z}_2 spin liquid model on the hyperhoneycomb lattice. Physical Review B, 2014, 90, .	3.2	13
25	Quadrupolar ordering and exotic magnetocaloric effect in RB ₄ (R = Dy, Ho). Scientific Reports, 2020, 10, 803.	3.3	10
26	Magnetic Chern Insulators in a monolayer of Transition Metal Trichalcogenides. Scientific Reports, 2018, 8, 799.	3.3	9
27	Filling-enforced nonsymmorphic Kondo semimetals in two dimensions. Physical Review B, 2017, 96, .	3.2	7
28	Length scale formation in the Landau levels of quasicrystals. Physical Review B, 2022, 105, .	3.2	7
29	Optical gyrotropy in quadrupolar Kondo systems. Physical Review B, 2015, 91, .	3.2	6
30	Fractionalizing glide reflections in two-dimensional \mathbb{Z}_2 spin liquids ordered phases. Physical Review B, 2016, 94, .	3.2	6
31	Discovery of a new type of magnetic order on pyrochlore spinels. Physical Review B, 2018, 98, .	3.2	6
32	Multipolar superconductivity in Luttinger semimetals. Physical Review Research, 2020, 2, .	3.6	6
33	Topological multiferroic phases in the extended Kane-Mele-Hubbard model in the Hofstadter regime. Physical Review B, 2018, 98, .	3.2	5
34	Topological critical states and anomalous electronic transmittance in one-dimensional quasicrystals. Physical Review Research, 2021, 3, .	3.6	5
35	Thermal and field-induced transitions in ferroquadrupolar Kondo systems. Physical Review Research, 2020, 2, .	3.6	4
36	Stacking sensitive topological phases in a bilayer Kane-Mele-Hubbard model at quarter filling. Physical Review B, 2019, 100, .	3.2	3

#	ARTICLE	IF	CITATIONS
37	Hidden phases born of a quantum spin liquid: Application to pyrochlore spin ice. Physical Review B, 2021, 104, .	3.2	3
38	Spin-helix-driven insulating phase in two-dimensional lattice. Physical Review Research, 2020, 2, .	3.6	3
39	Topological phases of nonsymmorphic crystals: Shastry-Sutherland lattice at integer filling. Physical Review B, 2019, 99, .	3.2	2
40	Pattern-dependent proximity effect and Majorana edge mode in one-dimensional quasicrystals. Physical Review B, 2022, 105, .	3.2	2
41	Magnetic field and thermal Hall effect in a pyrochlore U(1) quantum spin liquid. Physical Review B, 2020, 102, .	3.2	1