

Gang Su

List of Publications by Year in descending order

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251
papers

8,180
citations

66234

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256
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docs citations

256
times ranked

8260
citing authors

#	ARTICLE	IF	CITATIONS
1	A Mononuclear Dysprosium Complex Featuring Single-Molecule-Magnet Behavior. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7448-7451.	7.2	597
2	An Azide-Bridged Homospin Single-Chain Magnet: $[Co(2,2\text{-bithiazoline})(N_3)_2]_n$. <i>Journal of the American Chemical Society</i> , 2003, 125, 13976-13977.	6.6	479
3	T-Carbon: A Novel Carbon Allotrope. <i>Physical Review Letters</i> , 2011, 106, 155703.	2.9	421
4	Anisotropic intrinsic lattice thermal conductivity of phosphorene from first principles. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 4854-4858.	1.3	379
5	Separation of Hydrogen and Nitrogen Gases with Porous Graphene Membrane. <i>Journal of Physical Chemistry C</i> , 2011, 115, 23261-23266.	1.5	335
6	Cyano-Bridged 4f-3d Coordination Polymers with a Unique Two-Dimensional Topological Architecture and Unusual Magnetic Behavior. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 434-437.	7.2	282
7	Diverse anisotropy of phonon transport in two-dimensional group IV-VI compounds: A comparative study. <i>Nanoscale</i> , 2016, 8, 11306-11319.	2.8	234
8	Thermal conductivity of silicene calculated using an optimized Stillinger-Weber potential. <i>Physical Review B</i> , 2014, 89, .	1.1	213
9	Hinge-like structure induced unusual properties of black phosphorus and new strategies to improve the thermoelectric performance. <i>Scientific Reports</i> , 2014, 4, 6946.	1.6	202
10	Coexistence of Spin-Canting, Metamagnetism, and Spin-Flop in a (4,4) Layered Manganese Azide Polymer. <i>Chemistry of Materials</i> , 2005, 17, 6369-6380.	3.2	165
11	Tinselenidene: a Two-dimensional Auxetic Material with Ultralow Lattice Thermal Conductivity and Ultrahigh Hole Mobility. <i>Scientific Reports</i> , 2016, 6, 19830.	1.6	155
12	Unexpected Assembly of a Unique Cyano-Bridged Three-Dimensional Cu_3Cr_2 Ferromagnet. <i>Journal of the American Chemical Society</i> , 2001, 123, 11809-11810.	6.6	122
13	Octagraphene as a versatile carbon atomic sheet for novel nanotubes, unconventional fullerenes, and hydrogen storage. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	110
14	Highly efficient light management for perovskite solar cells. <i>Scientific Reports</i> , 2016, 6, 18922.	1.6	105
15	A Mononuclear Dysprosium Complex Featuring Single-Molecule-Magnet Behavior. <i>Angewandte Chemie</i> , 2010, 122, 7610-7613.	1.6	104
16	Multivariable Scaling for the Anomalous Hall Effect. <i>Physical Review Letters</i> , 2015, 114, 217203.	2.9	104
17	Synthesis and Size-Dependent Magnetic Properties of Monodisperse EuS Nanocrystals. <i>Small</i> , 2006, 2, 244-248.	5.2	103
18	Predicted Lead-Free Perovskites for Solar Cells. <i>Chemistry of Materials</i> , 2018, 30, 718-728.	3.2	102

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19	Two-dimensional Weyl half-semimetal and tunable quantum anomalous Hall effect. <i>Physical Review B</i> , 2019, 100, .	1.1	101
20	Rational Synthesis and Magnetic Properties of a Family of Low-Dimensional Heterometallic Cr ²⁺ Mn Complexes Based on the Versatile Building Block [Cr(2,2'-bipyridine)(CN) ₄]-. <i>Inorganic Chemistry</i> , 2005, 44, 4534-4545.	1.9	91
21	Strain-induced Dirac cone-like electronic structures and semiconductor \rightarrow semimetal transition in graphdiyne. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 8179.	1.3	81
22	Linking cyano-bridged ladders by azide to form a layered metamagnetElectronic supplementary information (ESI) available: crystal structure plots, more magnetic data and plots for 1 and 2. See http://www.rsc.org/suppdata/cc/b4/b405167j/ . <i>Chemical Communications</i> , 2004, , 1906.	2.2	80
23	Family of boron fullerenes: General constructing schemes, electron counting rule, and <i>ab initio</i> calculations. <i>Physical Review B</i> , 2008, 78, .	1.1	80
24	A Novel Azido and Pyrazine-Dioxide Bridged Three-Dimensional Manganese(II) Network with Antiferromagnetic Ordering (TN= 62 K) and a Spin Flop State. <i>Chemistry of Materials</i> , 2001, 13, 1946-1948.	3.2	79
25	Tensor Network Contractions. <i>Lecture Notes in Physics</i> , 2020, , .	0.3	76
26	Magnetic properties of EuS nanoparticles synthesized by thermal decomposition of molecular precursors. <i>Journal of Materials Chemistry</i> , 2005, 15, 4209.	6.7	72
27	Linearized Tensor Renormalization Group Algorithm for the Calculation of Thermodynamic Properties of Quantum Lattice Models. <i>Physical Review Letters</i> , 2011, 106, 127202.	2.9	71
28	Thermodynamic characteristics of the q-deformed ideal Bose gas. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1993, 173, 17-20.	0.9	70
29	Strain-induced Room-Temperature Ferromagnetic Semiconductors with Large Anomalous Hall Conductivity in Two-Dimensional $\langle \text{CrMn}_2\text{Ge}_2 \rangle$. <i>Physical Review Applied</i> , 2019, 12, .	1.5	68
30	Magnetism and thermodynamics of spin-1/2 Heisenberg diamond chains in a magnetic field. <i>Physical Review B</i> , 2007, 75, .	1.1	67
31	Comment on "Experimental Observation of the 1/3 Magnetization Plateau in the Diamond-Chain Compound $\text{Cu}_3(\text{CO}_3)_2(\text{OH})_2$ ". <i>Physical Review Letters</i> , 2006, 97, 089701; discussion 089702.	2.9	64
32	Engineering single-atom dynamics with electron irradiation. <i>Science Advances</i> , 2019, 5, eaav2252.	4.7	61
33	Two-Dimensional Room-Temperature Ferromagnetic Semiconductors with Quantum Anomalous Hall Effect. <i>Physical Review Applied</i> , 2019, 12, .	1.5	60
34	Spin current and current-induced spin transfer torque in ferromagnet \rightarrow quantum dot \rightarrow ferromagnet coupled systems. <i>Physical Review B</i> , 2006, 73, .	1.1	55
35	Stable mixed group II (Ca, Sr) and XIV (Ge, Sn) lead-free perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9220-9227.	5.2	55
36	Observation of an unusual field-dependent slow magnetic relaxation and two distinct transitions in a family of rare-earth \rightarrow transition-metal complexes. <i>Physical Review B</i> , 2001, 63, .	1.1	52

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37	Optimized decimation of tensor networks with super-orthogonalization for two-dimensional quantum lattice models. <i>Physical Review B</i> , 2012, 86, .	1.1	51
38	Off-diagonal long-range order: Meissner effect and flux quantization. <i>Physical Review B</i> , 1995, 51, 3760-3764.	1.1	49
39	Structures and Magnetism of a Series Mn(II) Coordination Polymers Containing Pyrazine-Dioxide Derivatives and Different Anions. <i>Crystal Growth and Design</i> , 2005, 5, 269-277.	1.4	47
40	Thermally Driven Pure Spin and Valley Currents via the Anomalous Nernst Effect in Monolayer Group-VI Dichalcogenides. <i>Physical Review Letters</i> , 2015, 115, 246601.	2.9	47
41	Topological nonlinear anomalous Nernst effect in strained transition metal dichalcogenides. <i>Physical Review B</i> , 2019, 99, .	1.1	44
42	Time-dependent spin-polarized transport through a resonant tunneling structure with multiterminals. <i>Physical Review B</i> , 2004, 70, .	1.1	42
43	Thermal transport in novel carbon allotropes with $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{s} \langle \text{mml:mi} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{or} \langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{s} \langle \text{mml:mi} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle$ hybridization. Anomalous Nernst effect study. <i>Physical Review B</i> , 2017, 95, .	1.1	42
44	Thermodynamics of spin-1/2 Kagomé Heisenberg antiferromagnet: algebraic paramagnetic liquid and finite-temperature phase diagram. <i>Science Bulletin</i> , 2018, 63, 1545-1550.	4.3	42
45	Pyrazine dioxide bridged two-dimensional antiferromagnets [M(NCS) ₂ (pzdo) ₂] (M = Mn, Co; pzdo =) Tj ETQq1 1 0.784314 rgBT /Over coordination mode for pzdo. Fig. S2: perspective view of compound 2 along the [010] direction. See http://www.rsc.org/suppdata/cc/b1/b107334f/ . <i>Chemical Communications</i> , 2001, ., 2586-2587.	2.2	41
46	Simplex valence-bond crystal in the spin-1 kagome Heisenberg antiferromagnet. <i>Physical Review B</i> , 2015, 91, .	1.1	41
47	Two-dimensional magnetic semiconductors with room Curie temperatures. <i>Physical Review Research</i> , 2020, 2, .	1.3	41
48	Accelerated Discovery of Two-Dimensional Optoelectronic Octahedral Oxyhalides via High-Throughput <i>Ab Initio</i> Calculations and Machine Learning. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6734-6740.	2.1	40
49	Preparation of T-carbon by plasma enhanced chemical vapor deposition. <i>Carbon</i> , 2020, 157, 270-276.	5.4	39
50	Matrix product state and quantum phase transitions in the one-dimensional extended quantum compass model. <i>Physical Review B</i> , 2012, 85, .	1.1	38
51	Exploring T-carbon for energy applications. <i>Nanoscale</i> , 2019, 11, 5798-5806.	2.8	38
52	Slow Magnetic Relaxation in a Mixed-Valence Mn(II/III) Complex: $\text{[MnII}_2(\text{bispicen})_2(\text{1/4-Cl})_2\text{MnIII}(\text{Cl}_4\text{Cat})_2\text{MnIII}(\text{Cl}_4\text{Cat})_2(\text{H}_2\text{O})_2] \cdot \text{z}}$. <i>Inorganic Chemistry</i> , 2004, 43, 849-851.	1.9	37
53	Thermodynamics of spin-1 antiferromagnet-antiferromagnet-ferromagnet and ferromagnet-ferromagnet-antiferromagnet trimerized quantum Heisenberg chains. <i>Physical Review B</i> , 2006, 73, .	1.1	37
54	Theory of network contractor dynamics for exploring thermodynamic properties of two-dimensional quantum lattice models. <i>Physical Review B</i> , 2013, 88, .	1.1	37

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55	Boron fullerenes B32+8k with four-membered rings and B32 solid phases: geometrical structures and electronic properties. Physical Chemistry Chemical Physics, 2009, 11, 9696.	1.3	36
56	An Antiferromagnetic Mn(III) Chain Bridged by Hydrogencyanamide: $[Mn^{III}(5-Brsalen)(\frac{1}{4}1,3-NCNH)]_n$. Inorganic Chemistry, 2004, 43, 8221-8223.	1.9	35
57	Thermal entanglement in one-dimensional Heisenberg quantum spin chains under magnetic fields. Physical Review A, 2009, 80, .	1.0	35
58	Nonexistence of $d_{x^2-y^2}$ superconductivity in the Hubbard model. Physical Review B, 1998, 58, 117-120.	1.1	34
59	Great enhancement of Curie temperature and magnetic anisotropy in two-dimensional van der Waals magnetic semiconductor heterostructures. Physical Review B, 2020, 102, .	1.1	34
60	Electric field induced topological phase transition and large enhancements of spin-orbit coupling and Curie temperature in two-dimensional ferromagnetic semiconductors. Physical Review B, 2021, 103, .	1.1	33
61	Anomalous Hall effect in amorphous $Co_{40}Fe_{40}O_{20}$. Physical Review B, 2010, 81, .	1.1	32
62	Quantum phase transition, phase diagram of the spin- O_3 class, and phase diagram of the spin- O_3 class, and phase diagram of the spin- O_3 class. Physical Review B, 2010, 81, .	1.1	31
63	Compositional Engineering Study of Lead-Free Hybrid Perovskites for Solar Cell Applications. ACS Applied Materials & Interfaces, 2020, 12, 49636-49647.	4.0	31
64	Topological gimbals phonons in T -carbon. Physical Review B, 2021, 103, .	1.1	31
65	Spin-dependent thermal and electrical transport in a spin-valve system. Physical Review B, 2001, 63, .	1.1	29
66	Face-centered-cubic $B_{80}Mn_{20}$ Density functional theory calculations. Physical Review B, 2008, 77, .	1.1	28
67	The statistical distribution function of the q-deformed harmonic oscillator. Journal of Physics A, 1991, 24, L721-L723.	1.6	27
68	CH ₃ NH ₃ PbI ₃ /GeSe bilayer heterojunction solar cell with high performance. Solar Energy, 2018, 159, 142-148.	2.9	27
69	Effect of spin-flip scattering on electrical transport in magnetic tunnel junctions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 300, 658-665.	0.9	26
70	Thermodynamics of spin- $tetrameric$ Heisenberg antiferromagnetic chain. Physical Review B, 2009, 80, .	1.1	26
71	Generative tensor network classification model for supervised machine learning. Physical Review B, 2020, 101, .	1.1	25
72	Absence of superconducting long-range order in low-dimensional Hubbard models. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 230, 99-104.	0.9	24

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73	Time-dependent spintronic transport and current-induced spin transfer torque in magnetic tunnel junctions. <i>Physical Review B</i> , 2003, 68, .	1.1	23
74	Gate-voltage controlled electronic transport through a ferromagnet/normal/ferromagnet junction on the surface of a topological insulator. <i>Physical Review B</i> , 2012, 86, .	1.1	23
75	First-principles study on electronic and magnetic properties of twisted graphene nanoribbon and Möbius strips. <i>Carbon</i> , 2014, 71, 150-158.	5.4	23
76	T-carbon: Experiments, properties, potential applications and derivatives. <i>Nano Today</i> , 2022, 42, 101346.	6.2	23
77	Phase separation in the two-dimensional Hubbard model. <i>Physical Review B</i> , 1996, 54, R8281-R8284.	1.1	22
78	Magnetic properties of J_1 - J_2 quantum Heisenberg chains with spin $S=1/2, 1, 3/2$ and 2 in a magnetic field. <i>Journal of Physics Condensed Matter</i> , 2005, 17, 6081-6094.	0.7	22
79	Phase diagrams, distinct conformal anomalies, and thermodynamics of spin-1 bond-alternating Heisenberg antiferromagnetic chain in magnetic fields. <i>Physical Review B</i> , 2012, 85, .	1.1	22
80	Structures, Electronic Properties, Spectroscopies, and Hexagonal Monolayer Phase of a Family of Unconventional Fullerenes $C_{64}X_4$ ($X = H, F, Cl, Br$). <i>Journal of Physical Chemistry C</i> , 2007, 111, 549-554.	1.5	21
81	New boron nitride structures B_{4N_4} : a first-principles random searching application. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 125504.	0.7	21
82	Two-dimensional magnetic metal-organic frameworks with the Shastry-Sutherland lattice. <i>Chemical Science</i> , 2019, 10, 10381-10387.	3.7	21
83	Theoretical study on the structures, properties and spectroscopies of fullerene derivatives $C_{66}X_4$ ($X=H, F, Cl$). <i>Carbon</i> , 2007, 45, 1821-1827.	5.4	20
84	New strategy to promote conversion efficiency using high-index nanostructures in thin-film solar cells. <i>Scientific Reports</i> , 2014, 4, 7165.	1.6	20
85	Few-body systems capture many-body physics: Tensor network approach. <i>Physical Review B</i> , 2017, 96, .	1.1	20
86	Spin-flip scattering effect on the current-induced spin torque in ferromagnet-insulator-ferromagnet tunnel junctions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 306, 249-254.	0.9	19
87	Magnetization plateau and incommensurate spin modulation in $Ca_3Co_2O_6$. <i>Applied Physics Letters</i> , 2010, 96, 162503.	1.5	19
88	Charged states and band-gap narrowing in codoped ZnO nanowires for enhanced photoelectrochemical responses: Density functional first-principles calculations. <i>Physical Review B</i> , 2012, 85, .	1.1	19
89	Implementation of the modified Becke-Johnson meta-GGA functional in Quantum Espresso. <i>Computer Physics Communications</i> , 2013, 184, 1697-1700.	3.0	19
90	Flat Band and Hole-induced Ferromagnetism in a Novel Carbon Monolayer. <i>Scientific Reports</i> , 2019, 9, 20116.	1.6	19

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91	Phase transitions and thermodynamics of the two-dimensional Ising model on a distorted kagome lattice. <i>Physical Review B</i> , 2010, 82, .	1.1	18
92	Magnetism and thermodynamics of spin-(1,2)decorated Heisenberg chain with spin-1 pendants. <i>Physical Review B</i> , 2010, 81, .	1.1	18
93	A modeling method to enhance the conversion efficiency by optimizing light trapping structure in thin-film solar cells. <i>Solar Energy</i> , 2015, 120, 505-513.	2.9	18
94	Octa-Kagomé Lattice Compounds Showing Quantum Critical Behaviors: Spin Gap Ground State versus Antiferromagnetic Ordering. <i>Journal of the American Chemical Society</i> , 2017, 139, 14057-14060.	6.6	18
95	Emergent spin-1 trimerized valence bond crystal in the spin- $\frac{1}{2}$ Heisenberg model on the star lattice. <i>Physical Review B</i> , 2018, 97, .	1.4	18
96	Two-dimensional topological superconductivity candidate in a van der Waals layered material. <i>Physical Review B</i> , 2021, 103, .	1.1	18
97	Magnetization plateaus, Haldane-like gap, string order, and hidden symmetry in a spin-1/2 tetrameric Heisenberg antiferromagnetic chain. <i>Physical Review B</i> , 2008, 78, .	1.1	17
98	The geometric and electronic transitions in body-centered-tetragonal C8: A first principle study. <i>Carbon</i> , 2017, 120, 89-94.	5.4	17
99	The atlas of ferroicity in two-dimensional MGeX ₃ family: Room-temperature ferromagnetic half metals and unexpected ferroelectricity and ferroelasticity. <i>Nano Research</i> , 2021, 14, 4732-4739.	5.8	17
100	Kagome quantum anomalous Hall effect with high Chern number and large band gap. <i>Physical Review B</i> , 2021, 103, .	1.1	17
101	Kosterlitz-Thouless phase transition and re-entrance in an anisotropic three-state Potts model on the generalized kagome lattice. <i>Physical Review E</i> , 2013, 87, .	0.8	16
102	Featureless quantum spin liquid, 1/3-magnetization plateau state, and exotic thermodynamic properties of the spin-1/2 frustrated Heisenberg antiferromagnet on an infinite Husimi lattice. <i>Physical Review B</i> , 2014, 89, .	1.1	16
103	Spin-dependent transport and current-induced spin transfer torque in a strained graphene spin valve. <i>Physical Review B</i> , 2014, 89, .	1.1	15
104	Spin-ordered ground state and thermodynamic behaviors of the spin-3/2 kagome Heisenberg antiferromagnet. <i>Physical Review E</i> , 2016, 94, 032114.	0.8	15
105	Quantum Hall effect in ac driven graphene: From the half-integer to the integer case. <i>Physical Review B</i> , 2018, 97, .	1.1	15
106	Antiferromagnetic and Electric Polarized States in Two-Dimensional Janus Semiconductor Fe ₂ Cl ₃ I ₃ . <i>Journal of Physical Chemistry C</i> , 2020, 124, 19219-19227.	1.5	15
107	The <i>p</i> -orbital magnetic topological states on a square lattice. <i>National Science Review</i> , 2022, 9, nwab114.	4.6	15
108	Ferroelectric and Room-Temperature Ferromagnetic Semiconductors in the 2D M ₁ X ₂ Ge ₂ X ₆ Family: First-Principles and Machine Learning Investigations. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10040-10051.	2.1	15

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109	Thermal conductance for single wall carbon nanotubes. European Physical Journal B, 2002, 25, 233-238.	0.6	14
110	Fermionic algebraic quantum spin liquid in an octa-kagome frustrated antiferromagnet. Physical Review B, 2017, 95, .	1.1	14
111	Lithium adsorption and migration in group IV-VI compounds and GeS/graphene heterostructures: a comparative study. Physical Chemistry Chemical Physics, 2018, 20, 9865-9871.	1.3	14
112	Efficient quantum simulation for thermodynamics of infinite-size many-body systems in arbitrary dimensions. Physical Review B, 2019, 99, .	1.1	14
113	Magnitude of magnetic field dependence of a possible selective spin filter in ZnSe/ZnMnS multilayer heterostructures. Physical Review B, 2004, 70, .	1.1	13
114	Spin structure factors and valence-bond-solid states of the trimerized Heisenberg chains in a magnetic field. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 2322-2325.	0.9	13
115	Global phase diagram of three-dimensional extended Boson Hubbard model: A continuous-time quantum Monte Carlo study. Physical Review B, 2011, 84, .	1.1	13
116	Carboneyne: A nodal line topological carbon with sp^2 - sp^3 chemical bonds. Carbon, 2019, 152, 909-914.	5.4	13
117	Field-induced transition in the S=1 antiferromagnetic chain with single-ion anisotropy in a transverse magnetic field. Physical Review B, 2002, 66, .	1.1	12
118	Phase inhomogeneity and scaling in ferromagnet-unconventional superconductor-ferromagnet double tunnel junctions. Physical Review B, 2003, 68, .	1.1	12
119	Diamond polytypes under high pressure: A first-principles study. Computational Materials Science, 2015, 98, 129-135.	1.4	12
120	Superconductivity in sodium-doped T-carbon. Physical Review B, 2020, 101, .	1.1	12
121	Visualizing quantum phases and identifying quantum phase transitions by nonlinear dimensional reduction. Physical Review B, 2021, 103, .	1.1	12
122	Field-Dependent Magnetic Relaxation and Magnetocaloric Effect in Mononuclear Gd Complexes. Acta Chimica Sinica, 2013, 71, 1022.	0.5	12
123	Face-centered-cubic K_3Mg_3	1.1	11
124	Low-energy properties of anisotropic two-dimensional spin-1/2 Heisenberg models in staggered magnetic fields. Physical Review B, 2011, 84, .	1.1	11
125	Quantum phase transition, universality, and scaling behaviors in the spin-1/2 Heisenberg model with ferromagnetic and antiferromagnetic competing interactions on a honeycomb lattice. Physical Review E, 2016, 93, 062110.	0.8	11
126	Towards understanding physical origin of 2175 Å... extinction bump in interstellar medium. Monthly Notices of the Royal Astronomical Society, 2020, 497, 2190-2200.	1.6	11

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127	Voting Data-Driven Regression Learning for Accelerating Discovery of Advanced Functional Materials and Applications to Two-Dimensional Ferroelectric Materials. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 973-981.	2.1	11
128	Emergent magnetic states due to stacking and strain in the van der Waals magnetic trilayer CrI ₃ . <i>Physical Review B</i> , 2021, 104, .	1.1	11
129	Exact ground states of one-dimensional quantum systems: matrix product approach. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1996, 213, 93-101.	0.9	10
130	Theoretical consideration of spin-polarized resonant tunneling in magnetic tunnel junctions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004, 323, 298-304.	0.9	10
131	Competition between the inter-valley scattering and the intra-valley scattering on magnetoconductivity induced by screened Coulomb disorder in Weyl semimetals. <i>AIP Advances</i> , 2017, 7, .	0.6	10
132	First- and second-order phase transitions, Fulde-Ferrel inhomogeneous state, and quantum criticality in ferromagnet/superconductor double tunnel junctions. <i>Physical Review B</i> , 2005, 71, .	1.1	9
133	Half-metallic silicon nanowires: Multiple surface dangling bonds and nonmagnetic doping. <i>Physical Review B</i> , 2009, 80, .	1.1	9
134	Criticality in two-dimensional quantum systems: Tensor network approach. <i>Physical Review B</i> , 2017, 95, .	1.1	9
135	Generalized spin-orbit torques in two-dimensional ferromagnets with spin-orbit coupling. <i>European Physical Journal B</i> , 2019, 92, 1.	0.6	9
136	Boron based layered electrode materials for metal-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 709-715.	1.3	9
137	High-efficient <i>ab initio</i> Bayesian active learning method and applications in prediction of two-dimensional functional materials. <i>Nanoscale</i> , 2021, 13, 14694-14704.	2.8	9
138	Supersymmetry and elementary excitations of the $\hat{1}/2$ pairing mechanism in the Hubbard model. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1990, 149, 191-194.	0.9	8
139	Spin-polarized transport in ferromagnetâ€™marginal Fermi liquid systems. <i>Physical Review B</i> , 2005, 71, .	1.1	8
140	Quantum phase transitions and string orders in the spin-1/2 Heisenbergâ€™Ising alternating chain with Dzyaloshinskiiâ€™Moriya interaction. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 165602.	0.7	8
141	Effect of the screened Coulomb disorder on magneto-transport in Weyl semimetals. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	8
142	Entanglement-Based Feature Extraction by Tensor Network Machine Learning. <i>Frontiers in Applied Mathematics and Statistics</i> , 2021, 7, .	0.7	8
143	Spin-Caloritronic Batteries. <i>Physical Review Applied</i> , 2017, 8, .	1.5	8
144	Tensor network compressed sensing with unsupervised machine learning. <i>Physical Review Research</i> , 2020, 2, .	1.3	8

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145	Some properties of the \hat{I} -pairing eigenstate in the Hubbard model. Physics Letters, Section A: General, Atomic and Solid State Physics, 1991, 155, 425-428.	0.9	7
146	Low frequency and weakly nonlinear spin transport in ferromagnet/insulator single and double junctions. European Physical Journal B, 2001, 19, 589-597.	0.6	7
147	Does the 2D Hubbard Model Really Show d-Wave Superconductivity?. Physical Review Letters, 2001, 86, 3690-3690.	2.9	7
148	Fulde-Ferrel-Larkin-Ovchinnikov inhomogeneous superconducting state and phase transitions induced by spin accumulation in a ferromagnet-d _{x²-y²} -wave superconductor-ferromagnet tunnel junction. Physical Review B, 2006, 73, .	1.1	7
149	Spin transfer and critical current for magnetization reversal in ferromagnet-ferromagnet-ferromagnet double-barrier tunnel junctions. Physical Review B, 2008, 78, .	1.1	7
150	Entanglement spectrum and quantum phase transitions in one-dimensional XXZ model with uniaxial single-ion anisotropy. Physica B: Condensed Matter, 2014, 443, 63-69.	1.3	7
151	Quantum Monte Carlo study of the spin-1/2 honeycomb Heisenberg model with mixed antiferromagnetic and ferromagnetic interactions in external magnetic fields. Physical Review E, 2017, 95, 052147.	0.8	7
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