Ziyu Chen

List of Publications by Year in descending order

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49 papers	1,632 citations	279701 23 h-index	289141 40 g-index
49 all docs	49 docs citations	49 times ranked	2140 citing authors

#	Article	IF	Citations
1	Enhanced dyes adsorption from wastewater via Fe3O4 nanoparticles functionalized activated carbon. Journal of Hazardous Materials, 2019, 373, 397-407.	6.5	257
2	Two-Dimensional Second-Order Topological Insulator in Graphdiyne. Physical Review Letters, 2019, 123, 256402.	2.9	193
3	Structure and magnetic properties of Fe-Co nanowires in self-assembled arrays. Physical Review B, 2002, 66, .	1.1	91
4	Universal Approach to Magnetic Second-Order Topological Insulator. Physical Review Letters, 2020, 125, 056402.	2.9	91
5	Controllable Two-Stage Droplet Evaporation Method and Its Nanoparticle Self-Assembly Mechanism. Langmuir, 2013, 29, 6232-6241.	1.6	81
6	Self-Assembly of Gold Nanorods into Symmetric Superlattices Directed by OH-Terminated Hexa(ethylene glycol) Alkanethiol. Langmuir, 2011, 27, 11394-11400.	1.6	75
7	Weyl-loop half-metal in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mi>Li</mml:mi></mml:mrow><mml:mr Physical Review B, 2019, 99, .	1.1	61
8	Ternary wurtzite CaAgBi materials family: A playground for essential and accidental, type-I and type-II Dirac fermions. Physical Review Materials, 2017, 1, .	0.9	59
9	Photocatalytic degradation of methylene blue by ZnGa2O4 thin films. Catalysis Communications, 2009, 10, 1781-1785.	1.6	57
10	Spectrum designation and effect of Al substitution on the luminescence of Cr3+ doped ZnGa2O4 nano-sized phosphors. Journal of Luminescence, 2010, 130, 1738-1743.	1.5	52
11	MÃ¶ssbauer study of Fe-Co nanowires. Journal of Physics Condensed Matter, 2002, 14, 613-620.	0.7	50
12	Realization of topological Mott insulator in a twisted bilayer graphene lattice model. Nature Communications, 2021, 12, 5480.	5.8	50
13	Exponential Thermal Tensor Network Approach for Quantum Lattice Models. Physical Review X, 2018, 8, .	2.8	48
14	Photocatalytic performance of ZnGa2O4 for degradation of methylene blue and its improvement by doping with Cd. Catalysis Communications, 2010, 11, 1104-1108.	1.6	42
15	Large transverse thermoelectric figure of merit in a topological Dirac semimetal. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	2.0	41
16	Second-Order Real Nodal-Line Semimetal in Three-Dimensional Graphdiyne. Physical Review Letters, 2022, 128, 026405.	2.9	34
17	Preparation and optical properties of ZnGa2O4:Cr3+ thin films derived by solâ€“gel process. Applied Surface Science, 2010, 256, 4702-4707.	3.1	31
18	Effect of interactions on two-dimensional Dirac fermions. Physical Review B, 2013, 88, .	1.1	31

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19	Graphyne as a second-order and real Chern topological insulator in two dimensions. Physical Review B, 2021, 104, .	1.1	30
20	Series-expansion thermal tensor network approach for quantum lattice models. Physical Review B, 2017, 95, .	1.1	27
21	Liquid crystal self-assembly of upconversion nanorods enriched by depletion forces for mesostructured material preparation. Nanoscale, 2018, 10, 4218-4227.	2.8	24
22	Thermal tensor renormalization group simulations of square-lattice quantum spin models. Physical Review B, 2019, 100, .	1.1	24
23	Programmable Ultralight Magnets via Orientational Arrangement of Ferromagnetic Nanoparticles within Aerogel Hosts. ACS Nano, 2019, 13, 13875-13883.	7.3	24
24	From Multiple Nodal Chain to Dirac/Weyl Semimetal and Topological Insulator in Ternary Hexagonal Materials. Journal of Physical Chemistry C, 2017, 121, 28587-28593.	1.5	21
25	Giant Magnetic Quantum Oscillations in the Thermal Conductivity of TaAs: Indications of Chiral Zero Sound. Physical Review X, 2019, 9, .	2.8	19
26	Quantum many-body simulations of the two-dimensional Fermi-Hubbard model in ultracold optical lattices. Physical Review B, 2021, 103, .	1.1	19
27	Real-time observations on crystallization of gold nanorods into spiral or lamellar superlattices. Chemical Communications, 2012, 48, 2128.	2.2	11
28	Synthesis of monodispersed Fe3O4@C core/shell nanoparticles. Science China Chemistry, 2016, 59, 394-397.	4.2	11
29	Depletion-Mediated Uniform Deposition of Nanorods with Patterned, Multiplexed Assembly. ACS Applied Materials & Interfaces, 2020, 12, 49200-49209.	4.0	9
30	Preparation and Characterization of Î³â€²-Fe3SnN. Physica Status Solidi A, 1999, 174, 249-253.	1.7	8
31	Spin-glass like behaviors in La1â^'x Tb x MnO3 perovskite. Science in China Series G: Physics, Mechanics and Astronomy, 2009, 52, 1893-1897.	0.2	8
32	The Effect of Thicknessâ€Tunable ZrO 2 Shell on Enhancing the Tunneling Magnetoresistance of Fe 3 O 4 Supraparticles. Advanced Materials Interfaces, 2018, 5, 1800236.	1.9	8
33	Intercalating copper into layered TaS₂ van der Waals gaps. RSC Advances, 2017, 7, 46699-46703.	1.7	7
34	Significant inverse magnetocaloric effect induced by quantum criticality. Physical Review Research, 2021, 3, .	1.3	7
35	Effect of Cu₂O Morphology on Photocatalytic Hydrogen Generation and Chemical Stability of TiO₂/Cu₂O Composite. Journal of Nanoscience and Nanotechnology, 2013, 13, 5104-5108.	0.9	6
36	Fe-N and (Fe, Ni)-N Fine Powders for Magnetic Recording. Hyperfine Interactions, 1998, 112, 101-106.	0.2	4

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37	Morphological and Orientational Controls of Self-Assembly of Gold Nanorods Directed by Evaporative Microflows. ACS Applied Materials & Interfaces, 2021, , .	4.0	4
38	Effect of rhodamine 6G dye molecular interactions on counterintuitive self-assembly of noble metal nanorods. Journal of Colloid and Interface Science, 2022, 614, 468-477.	5.0	4
39	Magnetic properties and thermodynamics of decorated Ising chain with pendants of arbitrary spin. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 2589-2595.	0.9	2
40	Excellent magnetic softness in TbFe/FeCoV multilayers. Rare Metals, 2011, 30, 322-326.	3.6	2
41	Sputtering-pressure dependence of magnetic properties in amorphous Tb40(FeCoV)60 films. Journal of Rare Earths, 2012, 30, 442-445.	2.5	2
42	Effect of sputter pressure on magnetotransport properties of FePt nanocomposites. Journal of Magnetism and Magnetic Materials, 2016, 403, 14-17.	1.0	2
43	Influence of Underlay Thickness on the Period of Nanoscale Wrinkle. Journal of Nanoscience and Nanotechnology, 2010, 10, 7355-7358.	0.9	1
44	GaN/PMMA nanocomposite: synthesis and optical properties. Rare Metals, 2010, 29, 138-142.	3.6	1
45	Effects of time on the magnetic properties of terbium-doped LaMnO3. Physica B: Condensed Matter, 2012, 407, 3405-3407.	1.3	1
46	Kosterlitz-Thouless transitions and phase diagrams of the interacting monomer-dimer model on a checkerboard lattice. Physical Review E, 2014, 90, 052104.	0.8	1
47	Measurement reduction method for the Millikan oil-drop experiment. European Journal of Physics, 2015, 36, 055022.	0.3	1
48	ONE-DIMENSIONAL SPIN-ONE HEISENBERG ANTIFERROMAGNET WITH SINGLE-ION ANISOTROPY IN A MAGNETIC FIELD: SCHWINGER BOSON THEORY. International Journal of Modern Physics B, 2000, 14, 2561-2575.	1.0	0
49	Topology-driven phase transitions in the classical monomer-dimer-loop model. Physical Review E, 2015, 91, 060104.	0.8	0