

Ziyu Chen

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

1,632
citations

279798

23
h-index

289244

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 Fe ₃ O ₄ nanoparticles functionalized activated carbon. Journal of Hazardous Materials, 2019, 373, 397-407.	12.4	257
2	Two-Dimensional Second-Order Topological Insulator in Graphdiyne. Physical Review Letters, 2019, 123, 256402.	7.8	193
3	Structure and magnetic properties of Fe-Co nanowires in self-assembled arrays. Physical Review B, 2002, 66, .	3.2	91
4	Universal Approach to Magnetic Second-Order Topological Insulator. Physical Review Letters, 2020, 125, 056402.	7.8	91
5	Controllable Two-Stage Droplet Evaporation Method and Its Nanoparticle Self-Assembly Mechanism. Langmuir, 2013, 29, 6232-6241.	3.5	81
6	Self-Assembly of Gold Nanorods into Symmetric Superlattices Directed by OH-Terminated Hexa(ethylene glycol) Alkanethiol. Langmuir, 2011, 27, 11394-11400.	3.5	75
7	Weyl-loop half-metal in $\text{Li}_2\text{Co}_2\text{O}_7$. Physical Review B, 2019, 99, .	3.2	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, .	2.4	59
9	Photocatalytic degradation of methylene blue by ZnGa ₂ O ₄ thin films. Catalysis Communications, 2009, 10, 1781-1785.	3.3	57
10	Spectrum designation and effect of Al substitution on the luminescence of Cr ³⁺ doped ZnGa ₂ O ₄ nano-sized phosphors. Journal of Luminescence, 2010, 130, 1738-1743.	3.1	52
11	Mössbauer study of Fe-Co nanowires. Journal of Physics Condensed Matter, 2002, 14, 613-620.	1.8	50
12	Realization of topological Mott insulator in a twisted bilayer graphene lattice model. Nature Communications, 2021, 12, 5480.	12.8	50
13	Exponential Thermal Tensor Network Approach for Quantum Lattice Models. Physical Review X, 2018, 8, .	8.9	48
14	Photocatalytic performance of ZnGa ₂ O ₄ for degradation of methylene blue and its improvement by doping with Cd. Catalysis Communications, 2010, 11, 1104-1108.	3.3	42
15	Large transverse thermoelectric figure of merit in a topological Dirac semimetal. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	5.1	41
16	Second-Order Real Nodal-Line Semimetal in Three-Dimensional Graphdiyne. Physical Review Letters, 2022, 128, 026405.	7.8	34
17	Preparation and optical properties of ZnGa ₂ O ₄ :Cr ³⁺ thin films derived by sol-gel process. Applied Surface Science, 2010, 256, 4702-4707.	6.1	31
18	Effect of interactions on two-dimensional Dirac fermions. Physical Review B, 2013, 88, .	3.2	31

#	ARTICLE	IF	CITATIONS
19	Graphyne as a second-order and real Chern topological insulator in two dimensions. <i>Physical Review B</i> , 2021, 104, .	3.2	30
20	Series-expansion thermal tensor network approach for quantum lattice models. <i>Physical Review B</i> , 2017, 95, .	3.2	27
21	Liquid crystal self-assembly of upconversion nanorods enriched by depletion forces for mesostructured material preparation. <i>Nanoscale</i> , 2018, 10, 4218-4227.	5.6	24
22	Thermal tensor renormalization group simulations of square-lattice quantum spin models. <i>Physical Review B</i> , 2019, 100, .	3.2	24
23	Programmable Ultralight Magnets via Orientational Arrangement of Ferromagnetic Nanoparticles within Aerogel Hosts. <i>ACS Nano</i> , 2019, 13, 13875-13883.	14.6	24
24	From Multiple Nodal Chain to Dirac/Weyl Semimetal and Topological Insulator in Ternary Hexagonal Materials. <i>Journal of Physical Chemistry C</i> , 2017, 121, 28587-28593.	3.1	21
25	Giant Magnetic Quantum Oscillations in the Thermal Conductivity of TaAs: Indications of Chiral Zero Sound. <i>Physical Review X</i> , 2019, 9, .	8.9	19
26	Quantum many-body simulations of the two-dimensional Fermi-Hubbard model in ultracold optical lattices. <i>Physical Review B</i> , 2021, 103, .	3.2	19
27	Real-time observations on crystallization of gold nanorods into spiral or lamellar superlattices. <i>Chemical Communications</i> , 2012, 48, 2128.	4.1	11
28	Synthesis of monodispersed Fe ₃ O ₄ @C core/shell nanoparticles. <i>Science China Chemistry</i> , 2016, 59, 394-397.	8.2	11
29	Depletion-Mediated Uniform Deposition of Nanorods with Patterned, Multiplexed Assembly. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 49200-49209.	8.0	9
30	Preparation and Characterization of δ -Fe ₃ SnN. <i>Physica Status Solidi A</i> , 1999, 174, 249-253.	1.7	8
31	Spin-glass like behaviors in La ^{1-x} Tb ^x MnO ₃ perovskite. <i>Science in China Series G: Physics, Mechanics and Astronomy</i> , 2009, 52, 1893-1897.	0.2	8
32	The Effect of Thickness-Tunable ZrO ₂ Shell on Enhancing the Tunneling Magnetoresistance of Fe ₃ O ₄ Supraparticles. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800236.	3.7	8
33	Intercalating copper into layered TaS ₂ van der Waals gaps. <i>RSC Advances</i> , 2017, 7, 46699-46703.	3.6	7
34	Significant inverse magnetocaloric effect induced by quantum criticality. <i>Physical Review Research</i> , 2021, 3, .	3.6	7
35	Effect of Cu ₂ O Morphology on Photocatalytic Hydrogen Generation and Chemical Stability of TiO ₂ /Cu ₂ O Composite. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 5104-5108.	0.9	6
36	Fe-N and (Fe, Ni)-N Fine Powders for Magnetic Recording. <i>Hyperfine Interactions</i> , 1998, 112, 101-106.	0.5	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, , .	8.0	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.	9.4	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.	2.1	2
40	Excellent magnetic softness in TbFe/FeCoV multilayers. Rare Metals, 2011, 30, 322-326.	7.1	2
41	Sputtering-pressure dependence of magnetic properties in amorphous Tb ₄₀ (FeCoV) ₆₀ films. Journal of Rare Earths, 2012, 30, 442-445.	4.8	2
42	Effect of sputter pressure on magnetotransport properties of FePt nanocomposites. Journal of Magnetism and Magnetic Materials, 2016, 403, 14-17.	2.3	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.	7.1	1
45	Effects of time on the magnetic properties of terbium-doped LaMnO ₃ . Physica B: Condensed Matter, 2012, 407, 3405-3407.	2.7	1
46	Kosterlitz-Thouless transitions and phase diagrams of the interacting monomer-dimer model on a checkerboard lattice. Physical Review E, 2014, 90, 052104.	2.1	1
47	Measurement reduction method for the Millikan oil-drop experiment. European Journal of Physics, 2015, 36, 055022.	0.6	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.	2.0	0
49	Topology-driven phase transitions in the classical monomer-dimer-loop model. Physical Review E, 2015, 91, 060104.	2.1	0