

Ziyu Chen

List of Publications by Year in descending order

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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	Second-Order Real Nodal-Line Semimetal in Three-Dimensional Graphdiyne. <i>Physical Review Letters</i> , 2022, 128, 026405.	7.8	34
2	Effect of rhodamine 6G dye molecular interactions on counterintuitive self-assembly of noble metal nanorods. <i>Journal of Colloid and Interface Science</i> , 2022, 614, 468-477.	9.4	4
3	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
4	Significant inverse magnetocaloric effect induced by quantum criticality. <i>Physical Review Research</i> , 2021, 3, .	3.6	7
5	Graphyne as a second-order and real Chern topological insulator in two dimensions. <i>Physical Review B</i> , 2021, 104, .	3.2	30
6	Realization of topological Mott insulator in a twisted bilayer graphene lattice model. <i>Nature Communications</i> , 2021, 12, 5480.	12.8	50
7	Morphological and Orientational Controls of Self-Assembly of Gold Nanorods Directed by Evaporative Microflows. <i>ACS Applied Materials & Interfaces</i> , 2021, , .	8.0	4
8	Large transverse thermoelectric figure of merit in a topological Dirac semimetal. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020, 63, 1.	5.1	41
9	Depletion-Mediated Uniform Deposition of Nanorods with Patterned, Multiplexed Assembly. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 49200-49209.	8.0	9
10	Universal Approach to Magnetic Second-Order Topological Insulator. <i>Physical Review Letters</i> , 2020, 125, 056402.	7.8	91
11	Thermal tensor renormalization group simulations of square-lattice quantum spin models. <i>Physical Review B</i> , 2019, 100, .	3.2	24
12	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
13	Enhanced dyes adsorption from wastewater via Fe ₃ O ₄ nanoparticles functionalized activated carbon. <i>Journal of Hazardous Materials</i> , 2019, 373, 397-407.	12.4	257
14	Weyl-loop half-metal in $\text{Li}_2\text{Co}_2\text{Te}_2$. <i>Physical Review B</i> , 2019, 99, .	3.2	19
15	Two-Dimensional Second-Order Topological Insulator in Graphdiyne. <i>Physical Review Letters</i> , 2019, 123, 256402.	7.8	193
16	Programmable Ultralight Magnets via Orientational Arrangement of Ferromagnetic Nanoparticles within Aerogel Hosts. <i>ACS Nano</i> , 2019, 13, 13875-13883.	14.6	24
17	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
18	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

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19	Exponential Thermal Tensor Network Approach for Quantum Lattice Models. <i>Physical Review X</i> , 2018, 8, .	8.9	48
20	Intercalating copper into layered TaS ₂ van der Waals gaps. <i>RSC Advances</i> , 2017, 7, 46699-46703.	3.6	7
21	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
22	Series-expansion thermal tensor network approach for quantum lattice models. <i>Physical Review B</i> , 2017, 95, .	3.2	27
23	Ternary wurtzite CaAgBi materials family: A playground for essential and accidental, type-I and type-II Dirac fermions. <i>Physical Review Materials</i> , 2017, 1, .	2.4	59
24	Synthesis of monodispersed Fe ₃ O ₄ @C core/shell nanoparticles. <i>Science China Chemistry</i> , 2016, 59, 394-397.	8.2	11
25	Effect of sputter pressure on magnetotransport properties of FePt nanocomposites. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 403, 14-17.	2.3	2
26	Topology-driven phase transitions in the classical monomer-dimer-loop model. <i>Physical Review E</i> , 2015, 91, 060104.	2.1	0
27	Measurement reduction method for the Millikan oil-drop experiment. <i>European Journal of Physics</i> , 2015, 36, 055022.	0.6	1
28	Kosterlitz-Thouless transitions and phase diagrams of the interacting monomer-dimer model on a checkerboard lattice. <i>Physical Review E</i> , 2014, 90, 052104.	2.1	1
29	Effect of interactions on two-dimensional Dirac fermions. <i>Physical Review B</i> , 2013, 88, .	3.2	31
30	Controllable Two-Stage Droplet Evaporation Method and Its Nanoparticle Self-Assembly Mechanism. <i>Langmuir</i> , 2013, 29, 6232-6241.	3.5	81
31	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
32	Sputtering-pressure dependence of magnetic properties in amorphous Tb ₄₀ (FeCoV) ₆₀ films. <i>Journal of Rare Earths</i> , 2012, 30, 442-445.	4.8	2
33	Real-time observations on crystallization of gold nanorods into spiral or lamellar superlattices. <i>Chemical Communications</i> , 2012, 48, 2128.	4.1	11
34	Effects of time on the magnetic properties of terbium-doped LaMnO ₃ . <i>Physica B: Condensed Matter</i> , 2012, 407, 3405-3407.	2.7	1
35	Self-Assembly of Gold Nanorods into Symmetric Superlattices Directed by OH-Terminated Hexa(ethylene glycol) Alkanethiol. <i>Langmuir</i> , 2011, 27, 11394-11400.	3.5	75
36	Excellent magnetic softness in TbFe/FeCoV multilayers. <i>Rare Metals</i> , 2011, 30, 322-326.	7.1	2

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37	Influence of Underlay Thickness on the Period of Nanoscale Wrinkle. Journal of Nanoscience and Nanotechnology, 2010, 10, 7355-7358.	0.9	1
38	GaN/PMMA nanocomposite: synthesis and optical properties. Rare Metals, 2010, 29, 138-142.	7.1	1
39	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
40	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
41	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
42	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
43	Spin-glass like behaviors in La ^x Tb _{1-x} MnO ₃ perovskite. Science in China Series G: Physics, Mechanics and Astronomy, 2009, 52, 1893-1897.	0.2	8
44	Photocatalytic degradation of methylene blue by ZnGa ₂ O ₄ thin films. Catalysis Communications, 2009, 10, 1781-1785.	3.3	57
45	Structure and magnetic properties of Fe-Co nanowires in self-assembled arrays. Physical Review B, 2002, 66, .	3.2	91
46	Mössbauer study of Fe-Co nanowires. Journal of Physics Condensed Matter, 2002, 14, 613-620.	1.8	50
47	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
48	Preparation and Characterization of ⁵⁷ Fe-Fe ₃ SnN. Physica Status Solidi A, 1999, 174, 249-253.	1.7	8
49	Fe-N and (Fe, Ni)-N Fine Powders for Magnetic Recording. Hyperfine Interactions, 1998, 112, 101-106.	0.5	4