

Yin Zhang

List of Publications by Year in descending order

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94
papers

2,469
citations

236925

25
h-index

214800

47
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94
all docs

94
docs citations

94
times ranked

4568
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism of regulation of stem cell differentiation by matrix stiffness. <i>Stem Cell Research and Therapy</i> , 2015, 6, 103.	5.5	287
2	Thermally Stable, Biocompatible, and Flexible Organic Field-Effect Transistors and Their Application in Temperature Sensing Arrays for Artificial Skin. <i>Advanced Functional Materials</i> , 2015, 25, 2138-2146.	14.9	184
3	Large Magnetostriction from Morphotropic Phase Boundary in Ferromagnets. <i>Physical Review Letters</i> , 2010, 104, 197201.	7.8	148
4	Ultrasensitive Photodetectors Based on Island-Structured $\text{CH}_3\text{NH}_3\text{PbI}_3$ Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 21634-21638.	8.0	108
5	Preparation and <i>in vitro/in vivo</i> evaluation of resveratrol-loaded carboxymethyl chitosan nanoparticles. <i>Drug Delivery</i> , 2016, 23, 971-981.	5.7	95
6	Robust ferromagnetism in Mn-doped MoS_2 nanostructures. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	91
7	Co_3O_4 -carbon nanotube heterostructures with bead-on-string architecture for enhanced lithium storage performance. <i>Nanoscale</i> , 2013, 5, 8067.	5.6	78
8	Enhancement of solubility, antioxidant ability and bioavailability of taxifolin nanoparticles by liquid antisolvent precipitation technique. <i>International Journal of Pharmaceutics</i> , 2014, 471, 366-376.	5.2	77
9	Functionalization-assistant ball milling towards Si/graphene anodes in high performance Li-ion batteries. <i>Carbon</i> , 2021, 181, 300-309.	10.3	74
10	A Beaded-String Silicon Anode. <i>ACS Nano</i> , 2013, 7, 2717-2724.	14.6	68
11	Noncubic crystallographic symmetry of a cubic ferromagnet: Simultaneous structural change at the ferromagnetic transition. <i>Physical Review B</i> , 2008, 77, .	3.2	67
12	Confined propagation of covalent chemical reactions on single-walled carbon nanotubes. <i>Nature Communications</i> , 2011, 2, 382.	12.8	67
13	Electrospun hollow cage-like Fe_2O_3 microspheres: synthesis, formation mechanism, and morphology-preserved conversion to Fe nanostructures. <i>CrystEngComm</i> , 2014, 16, 10618-10623.	2.6	63
14	Preparation and characterization of paclitaxel nanosuspension using novel emulsification method by combining high speed homogenizer and high pressure homogenization. <i>International Journal of Pharmaceutics</i> , 2015, 490, 324-333.	5.2	59
15	Facile Synthesis of a MoS_2 and Functionalized Graphene Heterostructure for Enhanced Lithium-Storage Performance. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 12907-12913.	8.0	56
16	Controlled Defects in Semiconducting Carbon Nanotubes Promote Efficient Generation and Luminescence of Trions. <i>ACS Nano</i> , 2014, 8, 4239-4247.	14.6	52
17	Propagative Sidewall Alkylcarboxylation that Induces Red-Shifted Near-IR Photoluminescence in Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 826-830.	4.6	46
18	Effect of superfine grinding on physicochemical and antioxidant properties of pomegranate peel. <i>International Journal of Food Science and Technology</i> , 2016, 51, 212-221.	2.7	45

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19	CuO Necklace: Controlled Synthesis of a Metal Oxide and Carbon Nanotube Heterostructure for Enhanced Lithium Storage Performance. <i>Journal of Physical Chemistry C</i> , 2013, 117, 12346-12351.	3.1	42
20	Molten hydroxides synthesis of hierarchical cobalt oxide nanostructure and its application as anode material for lithium ion batteries. <i>Electrochimica Acta</i> , 2011, 56, 4876-4881.	5.2	41
21	Giant spontaneous exchange bias triggered by crossover of superspin glass in Sb-doped Ni ₅₀ Mn ₃₈ Ga ₁₂ Heusler alloys. <i>Scientific Reports</i> , 2016, 6, 30801.	3.3	40
22	Preparation and characterization of micronized ellagic acid using antisolvent precipitation for oral delivery. <i>International Journal of Pharmaceutics</i> , 2015, 486, 207-216.	5.2	34
23	Lithium-assisted exfoliation of pristine graphite for few-layer graphene nanosheets. <i>Nano Research</i> , 2015, 8, 801-807.	10.4	34
24	Evidence for first-order nature of the ferromagnetic transition in Ni, Fe, Co, and CoFe . <i>Physical Review B</i> , 2008, 78, .	3.2	29
25	Interfacial Mechanics of Carbon Nanotube@Amorphous Si Coaxial Nanostructures. <i>Advanced Materials</i> , 2011, 23, 4318-4322.	21.0	26
26	Diameter-dependent, progressive alkylcarboxylation of single-walled carbon nanotubes. <i>Chemical Communications</i> , 2011, 47, 758-760.	4.1	24
27	Isolation and Functional Characterization of a Lycopene β -cyclase Gene Promoter from Citrus. <i>Frontiers in Plant Science</i> , 2016, 7, 1367.	3.6	24
28	Transmittance Tunable Smart Window Based on Magnetically Responsive 1D Nanochains. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 31637-31644.	8.0	23
29	The high water solubility of inclusion complex of taxifolin- β -CD prepared and characterized by the emulsion solvent evaporation and the freeze drying combination method. <i>International Journal of Pharmaceutics</i> , 2014, 477, 148-158.	5.2	22
30	Machine Learning Magnetic Parameters from Spin Configurations. <i>Advanced Science</i> , 2020, 7, 2000566.	11.2	22
31	Molecular characterization, critical amino acid identification, and promoter analysis of a lycopene β -cyclase gene from citrus. <i>Tree Genetics and Genomes</i> , 2016, 12, 1.	1.6	18
32	Solubility and dissolution rate improvement of the inclusion complex of apigenin with 2-hydroxypropyl- β -cyclodextrin prepared using the liquid antisolvent precipitation and solvent removal combination methods. <i>Drug Development and Industrial Pharmacy</i> , 2017, 43, 1366-1377.	2.0	18
33	Highly Sensitive Mechanoresponsive Smart Windows Driven by Shear Strain. <i>Advanced Functional Materials</i> , 2021, 31, 2102350.	14.9	17
34	Magnetocaloric effect in the vicinity of the magnetic phase transition in NdCo_2 compounds. <i>Physical Review B</i> , 2020, 101, .	3.0	16
35	Electric modulation of conduction in multiferroic Ni-doped GaFeO_3 ceramics. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 225002.	2.8	15
36	Modification of Carbon Nanotubes via Birch Reaction for Enhanced HER Catalyst by Constructing Pearl Necklace-Like NiCo_2P_2 CNT Composite. <i>Small</i> , 2018, 14, e1804388.	10.0	15

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37	A magnetocaloric effect arising from a ferromagnetic transition in the martensitic state in Heusler alloy of Ni ₅₀ Mn ₃₆ Sb ₈ Ga ₆ . Applied Physics Letters, 2015, 107, .	3.3	14
38	Preparation, characterization and bioavailability of oral puerarin nanoparticles by emulsion solvent evaporation method. RSC Advances, 2016, 6, 69889-69901.	3.6	14
39	Ursolic acid nanoparticles for oral delivery prepared by emulsion solvent evaporation method: characterization, <i>in vitro</i> evaluation of radical scavenging activity and bioavailability. Artificial Cells, Nanomedicine and Biotechnology, 2019, 47, 609-620.	2.8	14
40	Enhancement of the exchange coupling interaction of nanocomposite Nd ₂ Fe ₁₄ B/±-Fe magnets by a small amount of Sm substitution for Nd. Journal of Alloys and Compounds, 2005, 394, 1-4.	5.5	13
41	Enhanced dissolution rate and oral bioavailability of ginkgo biloba extract by preparing nanoparticles via emulsion solvent evaporation combined with freeze drying (ESE-FR). RSC Advances, 2016, 6, 77346-77357.	3.6	13
42	Dynamic Refractive Index Matching for Adaptive Thermo-responsive Smart Windows. Small, 2022, 18, .	10.0	13
43	Seed-mediated approach for the size-controlled synthesis of flower-like Ag mesostructures. Materials Letters, 2014, 130, 9-13.	2.6	12
44	Hierarchical Ag mesostructures for single particle SERS substrate. Applied Surface Science, 2017, 393, 197-203.	6.1	12
45	A facile strategy for Co ₃ O ₄ /Co nanoparticles encapsulated in porous N-doped carbon nanofibers towards enhanced lithium storage performance. Journal of Porous Materials, 2020, 27, 1-9.	2.6	12
46	Thermally reshaped polyvinylpyrrolidone/SnO ₂ @p-toluenesulfonic acid-doped polypyrrole nanocables with high capacity and excellent cycle performance as anode for lithium-ion batteries. Journal of Alloys and Compounds, 2021, 867, 159067.	5.5	12
47	Gold-Substrate-Enhanced Scanning Electron Microscopy of Functionalized Single-Wall Carbon Nanotubes. Journal of Physical Chemistry Letters, 2011, 2, 885-888.	4.6	11
48	Enhanced multiferroic properties of lead-free (1-x)GaFeO ₃ -(x)Co _{0.5} Zn _{0.5} Fe ₂ O ₄ composites. Journal of Applied Physics, 2018, 124, .	2.5	11
49	Magnetocaloric effect and critical exponent analysis around magnetic phase transition in NdCo ₂ compound. Journal Physics D: Applied Physics, 2020, 53, 345003.	2.8	11
50	Fabrication of N, S co-doped carbon nanofiber matrix with cobalt sulfide nanoparticles enhancing lithium/sodium storage performance. Journal of Alloys and Compounds, 2022, 902, 163812.	5.5	11
51	A facile two-step approach to synthesize monodisperse and high-magnetization Fe ₃ O ₄ @PS composite colloidal particles for constructing dual-response photonic crystals. Composites Communications, 2020, 19, 114-120.	6.3	9
52	High temperature spin-glass-like transition in La _{0.67} Sr _{0.33} MnO ₃ nanofibers near the Curie point. Physical Chemistry Chemical Physics, 2017, 19, 16731-16736.	2.8	8
53	Long-Term Behaviour of Precast Concrete Deck Using Longitudinal Prestressed Tendons in Composite I-Girder Bridges. Applied Sciences (Switzerland), 2018, 8, 2598.	2.5	8
54	Zero-thermal-hysteresis magnetocaloric effect induced by magnetic transition at a morphotropic phase boundary in Heusler Ni ₅₀ Mn ₃₆ Sb ₁₄ xIn _x alloys. Physical Chemistry Chemical Physics, 2018, 20, 18484-18490.	2.8	8

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55	Improved magnetostriction in Galfenol alloys by aligning crystal growth direction along easy magnetization axis. <i>Scientific Reports</i> , 2020, 10, 20055.	3.3	8
56	Magnetocaloric effect in Tb(Co _{0.94} Fe _{0.06}) ₂ alloy with negligible thermal hysteresis and wide working temperature range. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 502, 166521.	2.3	8
57	Tailoring exchange bias in reentrant spin glass by ferromagnetic cluster size engineering. <i>APL Materials</i> , 2021, 9, .	5.1	8
58	Synthesis of monodisperse ferromagnetic Co _x Fe _{3-<i>x</i>} O ₄ colloidal particles with magnetically tunable optical properties. <i>CrystEngComm</i> , 2019, 21, 2310-2319.	2.6	7
59	The Phase Diagram and Exotic Magnetostrictive Behaviors in Spinel Oxide Co(Fe _{1-<i>x</i>} Al _{<i>x</i>}) ₂ O ₄ System. <i>Materials</i> , 2019, 12, 1685.	2.9	7
60	Spongy <i>p</i> -Toluenesulfonic Acid-doped Polypyrrole with Extraordinary Rate Performance as Durable Anodes of Sodium-Ion Batteries at Different Temperatures. <i>Langmuir</i> , 2020, 36, 15075-15081.	3.5	7
61	Magnetostructural transition, magnetocaloric effect and critical exponent analysis in Nd(Co _{0.8} Fe _{0.2}) ₂ alloy. <i>Journal of Alloys and Compounds</i> , 2022, 895, 162562.	5.5	7
62	Modeling magnetic nanotubes using a chain of ellipsoid-rings approach. <i>Journal of Applied Physics</i> , 2012, 111, 063912.	2.5	6
63	Functionalization of carbon nanotubes via Birch reduction chemistry for selective loading of CuO nanosheets. <i>New Journal of Chemistry</i> , 2015, 39, 4278-4283.	2.8	5
64	Temperature dependent magnetization and coercivity in morphotropic phase boundary involved ferromagnetic Tb _{1-<i>x</i>} Gd _{<i>x</i>} Fe ₂ system. <i>Materials Chemistry and Physics</i> , 2018, 217, 278-284.	4.0	5
65	Spin cluster size dependence of exchange bias effect in Mn ₅₀ Ni ₄₀ Ga ₁₀ Heusler alloys. <i>Intermetallics</i> , 2019, 107, 10-14.	3.9	5
66	Gram-scale Production of Graphene Powder via a Quasi-physical Process and Its Application in Electrode Material for Lithium-ion Battery. <i>Advanced Engineering Materials</i> , 2019, 21, 1800891.	3.5	5
67	The promising room-temperature magnetic refrigeration materials Misch-metal (MM) ₂ Fe _{17-<i>x</i>} Si _{<i>x</i>} (<i>x</i> = 0-1.5) compounds. <i>Journal of Alloys and Compounds</i> , 2020, 828, 154404.	5.5	5
68	SnO ₂ @C nanowires as high-performance anodic materials for lithium-ion batteries. <i>Materials Letters</i> , 2021, 284, 129019.	2.6	5
69	Photo-controlled exchange bias in CoO@Co-Fe PBA core-shell heterostructures. <i>Journal of Materials Chemistry C</i> , 2021, 10, 244-250.	5.5	5
70	Large magnetocaloric effect and near-zero thermal hysteresis in the rare earth intermetallic Tb _{1-<i>x</i>} Dy _{<i>x</i>} Co ₂ compounds. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 055804.	1.8	4
71	Three-dimensional nanocomposites with Co ₃ O ₄ nanosheets parallelly embedded in carbon network walls for enhanced lithium-ion storage. <i>Dalton Transactions</i> , 2019, 48, 8375-8383.	3.3	4
72	Giant exchange bias induced <i>via</i> tuning interfacial spins in polycrystalline Fe ₃ O ₄ /CoO bilayers. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 4805-4810.	2.8	4

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73	Maximizing Zero-Field-Cooled Exchange Bias in Crystallized Co@CoO Nanocluster Assembled Thin Film by Varying Film Thickness. <i>Journal of Physical Chemistry C</i> , 2021, 125, 7337-7342.	3.1	4
74	Understanding of the giant magnetic entropy change around the co-occurrence point of martensitic and magnetic transitions in Ni-Mn-In Heusler alloy. <i>Acta Materialia</i> , 2022, 229, 117839.	7.9	4
75	Single Capillary Electrospinning of Magnetic Core-shell Nanofibers. <i>ChemistrySelect</i> , 2016, 1, 1510-1514.	1.5	3
76	Novel cucurbitane-type triterpene saponins from <i>Hemsleya amabilis</i> . <i>Journal of Asian Natural Products Research</i> , 2020, 22, 30-37.	1.4	3
77	Simulating magnetic nanotubes using a chain of ellipsoid-rings model with a magnetization reversal process by fanning rotation. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 10250-10256.	2.8	2
78	Stepwise Growth of Hollow Hexagonal α -Fe ₂ O ₃ Nanocrystals. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-5.	2.7	2
79	Thermal Expansion and Magnetostriction of Laves-Phase Alloys: Fingerprints of Ferrimagnetic Phase Transitions. <i>Materials</i> , 2019, 12, 1755.	2.9	2
80	Preparation and Characterization of Taxifolin Formate by Antisolvent Recrystallization. <i>Chemical Engineering and Technology</i> , 2019, 42, 414-421.	1.5	2
81	Cobalt vacancies assisted ion diffusion in Co ₂ AlO ₄ carbon nanofibers for enhancing lithium battery performance. <i>Dalton Transactions</i> , 2020, 49, 10127-10137.	3.3	2
82	Giant Vertical Magnetization Shift Caused by Field-Induced Ferromagnetic Spin Reconfiguration in Ni ₅₀ Mn ₃₆ Ga ₁₄ Alloy. <i>Materials</i> , 2020, 13, 4701.	2.9	2
83	Tuning the exchange bias effect via thermal treatment temperature in bulk Ni ₅₀ Mn ₄₂ In ₃ Sb ₅ Heusler alloys. <i>Applied Physics Express</i> , 2021, 14, 105502.	2.4	2
84	Reduction of Manganese Dioxide by Dissolved Lithium in Liquid Ammonia for Li-Mn-O Spinel. <i>ChemistrySelect</i> , 2016, 1, 3438-3442.	1.5	1
85	Experimental Observation of van Hove Singularities in Quasi-1D MoO ₂ Nanotubes. <i>Advanced Electronic Materials</i> , 2019, 5, 1900005.	5.1	1
86	The structure, magnetic and magnetocaloric effect of misch-metal (MM) ₂ Fe ₁₇ xAlx (x=0-2) compounds. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 502, 166487.	2.3	1
87	Anomalous Optically Induced Nonvolatile Magnetization Effect in Mn ₃ O ₄ Superparamagnetic Nanoparticles. <i>Particle and Particle Systems Characterization</i> , 2022, 39, .	2.3	1
88	Influence of measurement field on the magnetic domains for zero-field cooling exchange bias effect in Ni ₅₀ Mn ₃₇ Ga ₁₃ alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 553, 169250.	2.3	1
89	Applications of Carbon Nanomaterials in Biosensor. , 2016, , 103-134.		0
90	Removing the surfactant of SmCo ₅ nanoflakes via ligand-exchange and vacuum heat-treatment. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 499, 166250.	2.3	0

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91	The phase transitions and magnetocaloric effects in Ga-doped Heusler Ni ₅₀ Mn ₃₆ Sn ₁₄ alloys. Japanese Journal of Applied Physics, 2020, 59, 010905.	1.5	0
92	Multiband transport enables thermoelectric enhancements in the SrMg ₂ Bi ₂ compound. Journal of Applied Physics, 2022, 131, 135101.	2.5	0
93	A three-dimensional crosslinked nano-structure <i>via in situ</i> growth of carbon nanotube/cobalt sulfide composites on porous carbon nanofibers for enhanced sodium storage. Dalton Transactions, 2022, , .	3.3	0
94	Magnetic and Magnetostrictive Behaviors of Laves-Phase Rare-Earth ²⁺ Transition-Metal Compounds Tb _{1-x} Dy _x Co _{1.95} . Materials, 2022, 15, 3884.	2.9	0