

Zhao-Hui Ren

List of Publications by Year in descending order

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104
papers

2,544
citations

186265

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106
docs citations

106
times ranked

3975
citing authors

#	ARTICLE	IF	CITATIONS
1	Facile synthesis of single-crystalline mesoporous γ -Fe ₂ O ₃ and Fe ₃ O ₄ nanorods as anode materials for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 20566.	6.7	148
2	Room-temperature ferromagnetism in Fe-doped PbTiO ₃ nanocrystals. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	130
3	FeS@BSA Nanoclusters to Enable H ₂ O ₂ -Amplified ROS-Based Therapy with MRI Guidance. <i>Advanced Science</i> , 2020, 7, 1903512.	11.2	114
4	Mineralizer-Assisted Hydrothermal Synthesis and Characterization of BiFeO ₃ Nanoparticles. <i>Journal of the American Ceramic Society</i> , 2007, 90, 2615-2617.	3.8	103
5	Self-Templated Synthesis of Single-Crystal and Single-Domain Ferroelectric Nanoplates. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9283-9287.	13.8	76
6	Ultrathin Anatase TiO ₂ Nanosheets for High-Performance Photocatalytic Hydrogen Production. <i>Small</i> , 2017, 13, 1604115.	10.0	72
7	PVA-Assisted Hydrothermal Synthesis of SrTiO ₃ Nanoparticles with Enhanced Photocatalytic Activity for Degradation of RhB. <i>Journal of the American Ceramic Society</i> , 2008, 91, 3795-3799.	3.8	64
8	Manipulating topological transformations of polar structures through real-time observation of the dynamic polarization evolution. <i>Nature Communications</i> , 2019, 10, 4864.	12.8	62
9	PbTiO ₃ Nanofibers with Edge-Shared TiO ₆ Octahedra. <i>Journal of the American Chemical Society</i> , 2010, 132, 5572-5573.	13.7	60
10	Magnetic proximity effect in graphene coupled to a BiFeO_3 nanoplate. <i>Physical Review B</i> , 2017, 95, .	3.2	57
11	Bismuth embedded silica nanoparticles loaded with autophagy suppressant to promote photothermal therapy. <i>Biomaterials</i> , 2019, 221, 119419.	11.4	54
12	Alkali Metal Ions-Assisted Controllable Synthesis of Bismuth Ferrites by a Hydrothermal Method. <i>Journal of the American Ceramic Society</i> , 2007, 90, 3673-3675.	3.8	53
13	Multifunctional Electrospun Nanofibers for Enhancing Localized Cancer Treatment. <i>Small</i> , 2018, 14, e1801183.	10.0	52
14	Polarization-dependent epitaxial growth and photocatalytic performance of ferroelectric oxide heterostructures. <i>Nano Energy</i> , 2018, 45, 304-310.	16.0	50
15	The hydrothermal synthesis and formation mechanism of single-crystalline perovskite BiFeO ₃ microplates with dominant (012) facets. <i>CrystEngComm</i> , 2014, 16, 4176-4182.	2.6	47
16	A Fibrous Localized Drug Delivery Platform with NIR-Triggered and Optically Monitored Drug Release. <i>Langmuir</i> , 2016, 32, 9083-9090.	3.5	45
17	Mesopores induced zero thermal expansion in single-crystal ferroelectrics. <i>Nature Communications</i> , 2018, 9, 1638.	12.8	43
18	Ferric Hydroxide-Modified Upconversion Nanoparticles for 808 nm NIR-Triggered Synergetic Tumor Therapy with Hypoxia Modulation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 385-393.	8.0	43

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19	Crystal-crystal phase transformation via surface-induced virtual premelting. <i>Physical Review B</i> , 2012, 85, .	3.2	40
20	Tunable photoluminescence properties of well-aligned ZnO nanorod array by oxygen plasma post-treatment. <i>Applied Surface Science</i> , 2014, 289, 252-256.	6.1	35
21	Upconversion nanocrystal SiO_2 -armoured SiO_2 silica fibres with superior photoluminescence for miRNA detection. <i>Chemical Communications</i> , 2018, 54, 6324-6327.	4.1	35
22	Multifunctional MoO ₂ -ICG nanoplatform for 808nm-mediated synergetic photodynamic/photothermal therapy. <i>Applied Materials Today</i> , 2019, 15, 472-481.	4.3	35
23	Near-infrared luminescent CaTiO ₃ :Nd ³⁺ nanofibers with tunable and trackable drug release kinetics. <i>Journal of Materials Chemistry B</i> , 2015, 3, 7449-7456.	5.8	34
24	Single-Crystal-Like Mesoporous SrTiO ₃ Spheres with Enhanced Photocatalytic Performance. <i>Journal of the American Ceramic Society</i> , 2010, 93, 1297-1305.	3.8	33
25	Monodisperse hollow perovskite BaTiO ₃ nanostructures prepared by a sol-gel/hydrothermal method. <i>Ceramics International</i> , 2014, 40, 9663-9670.	4.8	33
26	Synthesis of Highly Dispersed Barium Titanate Nanoparticles by a Novel Solvothermal Method. <i>Journal of the American Ceramic Society</i> , 2008, 91, 315-318.	3.8	32
27	Surface Defect-Controlled Growth and High Photocatalytic H ₂ Production Efficiency of Anatase TiO ₂ Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 37256-37262.	8.0	32
28	Luminescent CaTiO ₃ :Yb,Er nanofibers co-conjugated with Rose Bengal and gold nanorods for potential synergistic photodynamic/photothermal therapy. <i>Journal of Materials Chemistry B</i> , 2017, 5, 5128-5136.	5.8	32
29	Phase-Modified Up-Conversion Luminescence in Er-Doped Single-Crystal PbTiO ₃ Nanofibers. <i>Journal of Physical Chemistry C</i> , 2014, 118, 5486-5493.	3.1	28
30	Colossal dielectric performance of pure barium titanate ceramics consolidated by spark plasma sintering. <i>RSC Advances</i> , 2016, 6, 75422-75429.	3.6	28
31	A Dual-Color Luminescent Localized Drug Delivery System with Ratiometric-Monitored Doxorubicin Release Functionalities. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 652-661.	5.2	27
32	Octahedral-shaped perovskite nanocrystals and their visible-light photocatalytic activity. <i>Chemical Communications</i> , 2014, 50, 6027-6030.	4.1	26
33	pH-Triggered SrTiO ₃ :Er Nanofibers with Optically Monitored and Controlled Drug Delivery Functionality. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 25514-25521.	8.0	25
34	Size-Controlled Single-Crystal Perovskite PbTiO ₃ Nanofibers from Edge-Shared TiO ₆ Octahedron Columns. <i>Small</i> , 2012, 8, 2959-2963.	10.0	24
35	Gold nanorod-assembled ZnGa ₂ O ₄ :Cr nanofibers for LED-amplified gene silencing in cancer cells. <i>Nanoscale</i> , 2018, 10, 13432-13442.	5.6	24
36	Crystallization and concentration modulated tunable upconversion luminescence of Er ³⁺ doped PZT nanofibers. <i>Journal of Materials Chemistry C</i> , 2015, 3, 382-389.	5.5	23

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37	Interfacial Multiferroics of TiO ₂ /PbTiO ₃ Heterostructure Driven by Ferroelectric Polarization Discontinuity. ACS Applied Materials & Interfaces, 2017, 9, 1899-1906.	8.0	23
38	Electrostatic Force-Driven Oxide Heteroepitaxy for Interface Control. Advanced Materials, 2018, 30, e1707017.	21.0	23
39	Asymmetric Modulation on Exchange Field in a Graphene/BiFeO ₃ Heterostructure by External Magnetic Field. Nano Letters, 2018, 18, 2435-2441.	9.1	22
40	Shape Evolution of Pb (Zr,Ti)O ₃ Nanocrystals Under Hydrothermal Conditions. Journal of the American Ceramic Society, 2007, 90, 2645-2648.	3.8	20
41	A feasible approach toward bioactive glass nanofibers with tunable protein release kinetics for bone scaffolds. Colloids and Surfaces B: Biointerfaces, 2014, 122, 785-791.	5.0	20
42	Facile synthesis and visible photocatalytic activity of single-crystal TiO ₂ /PbTiO ₃ heterostructured nanofiber composites. CrystEngComm, 2015, 17, 1024-1029.	2.6	20
43	Synthesis and Characterization of Mesoporous SrTiO ₃ Spheres via a Poly Vinyl Alcohol-Assisted Hydrothermal Route. Journal of the American Ceramic Society, 2008, 91, 299-302.	3.8	19
44	Single-crystal nanofibers of Zr-doped new structured PbTiO ₃ : hydrothermal synthesis, characterization and phase transformation. Journal of Materials Chemistry, 2011, 21, 3562.	6.7	19
45	Selective Deposition of Silver Oxide on Single-Domain Ferroelectric Nanoplates and Their Efficient Visible-Light Photoactivity. Chemistry - A European Journal, 2016, 22, 12160-12165.	3.3	19
46	A Multifunctional Nanocrystalline CaF ₂ :Tm,Yb@mSiO ₂ System for Dual-Triggered and Optically Monitored Doxorubicin Delivery. Particle and Particle Systems Characterization, 2016, 33, 896-905.	2.3	19
47	Rare-earth-doped upconversion nanocrystals embedded mesoporous silica nanoparticles for multiple microRNA detection. Chemical Engineering Journal, 2019, 374, 863-869.	12.7	19
48	Room-Temperature Synthesis of BaTiO ₃ Nanoparticles in Large Batches. Journal of the American Ceramic Society, 2008, 91, 3774-3780.	3.8	18
49	Polarization-Modified Upconversion Luminescence in Er-Doped Single-Crystal Perovskite PbTiO ₃ Nanofibers. Journal of Physical Chemistry C, 2015, 119, 17326-17333.	3.1	18
50	Enhanced cell uptake of fluorescent drug-loaded nanoparticles via an implantable photothermal fibrous patch for more effective cancer cell killing. Journal of Materials Chemistry B, 2017, 5, 7504-7511.	5.8	18
51	Single-crystal TiO ₂ /SrTiO ₃ core-shell heterostructured nanowire arrays for enhanced photoelectrochemical performance. Rare Metals, 2019, 38, 369-378.	7.1	18
52	Hydrothermal synthesis, characterization and growth mechanism of single crystal lead titanate pyrochlore dendrites. CrystEngComm, 2011, 13, 1498-1503.	2.6	17
53	Optically Monitoring Mineralization and Demineralization on Photoluminescent Bioactive Nanofibers. Langmuir, 2016, 32, 3226-3233.	3.5	17
54	Tuning Interfacial Magnetic Ordering via Polarization Control in Ferroelectric SrTiO ₃ /PbTiO ₃ Heterostructure. ACS Applied Materials & Interfaces, 2018, 10, 10536-10542.	8.0	16

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55	Implantable composite fibres with Self-supplied H ₂ O ₂ for localized chemodynamic therapy. <i>Chemical Engineering Journal</i> , 2020, 388, 124211.	12.7	16
56	In-situ electrostatic field regulating the recrystallization behavior of P(VDF-TrFE) films with high β -phase content and enhanced piezoelectric properties towards flexible wireless biosensing device applications. <i>Nano Energy</i> , 2022, 100, 107507.	16.0	16
57	Single-Crystal BiFeO ₃ Nanoplates with Robust Antiferromagnetism. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 5785-5792.	8.0	15
58	Nanopore-induced dielectric and piezoelectric enhancement in PbTiO ₃ nanowires. <i>Acta Materialia</i> , 2020, 187, 146-152.	7.9	14
59	Hydrothermal synthesis, characterization and formation mechanism of self-assembled mesoporous SrTiO ₃ spheres assisted with Na ₂ SiO ₃ ·9H ₂ O. <i>CrystEngComm</i> , 2012, 14, 3702.	2.6	13
60	Pre-perovskite nanofiber: a new direct-band gap semiconductor with green and near infrared photoluminescence. <i>RSC Advances</i> , 2013, 3, 5453.	3.6	13
61	Growth and Bending-Sensitive Photoluminescence of a Flexible PbTiO ₃ /ZnO Nanocomposite. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 10935-10940.	8.0	13
62	A facile approach to upconversion crystalline CaF ₂ :Yb ³⁺ , Tm ³⁺ @mSiO ₂ nanospheres for tumor therapy. <i>RSC Advances</i> , 2016, 6, 38365-38370.	3.6	13
63	Surface Oxygen Vacancies Confined by Ferroelectric Polarization for Tunable CO Oxidation Kinetics. <i>Advanced Materials</i> , 2022, 34, e2202072.	21.0	13
64	Hydrothermal synthesis of ferroelectric PbTiO ₃ nanoparticles with dominant {001} facets by titanate nanostructure. <i>CrystEngComm</i> , 2013, 15, 8036.	2.6	12
65	Facile synthesis of PbTiO ₃ truncated octahedra via solid-state reaction and their application in low-temperature CO oxidation by loading Pt nanoparticles. <i>Journal of Materials Chemistry A</i> , 2014, 2, 9035-9039.	10.3	12
66	Solvothermal synthesis, characterization and formation mechanism of single-crystalline SrTiO ₃ dense spheres with monoethanolamine as reaction medium solvent. <i>CrystEngComm</i> , 2013, 15, 1439.	2.6	11
67	Synthesis of CaTiO ₃ Nanofibers with Controllable Drug Release Kinetics. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 4532-4538.	2.0	11
68	Zinc sulfide nanoparticle-decorated fibre mesh to enable localized H ₂ S-amplified chemotherapy. <i>Chemical Communications</i> , 2020, 56, 4304-4307.	4.1	11
69	Theoretical and experimental study of Raman spectra of pre-perovskite PbTiO ₃ . <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	10
70	Doping and phase transformation of single-crystal pre-perovskite PbTiO ₃ fibers with TiO ₆ edge-shared octahedra. <i>CrystEngComm</i> , 2012, 14, 4520.	2.6	10
71	Synthesis of vinyl end-capped polydimethylsiloxane by ring opening polymerization of octamethylcyclotetrasiloxane (D ₄) catalyzed by rare earth solid super acid SO ₄ ²⁻ /TiO ₂ /Ln ³⁺ . <i>Polymer International</i> , 2014, 63, 347-351.	3.1	10
72	Surface energy-driven solution epitaxial growth of anatase TiO ₂ homostructures for overall water splitting. <i>Journal of Materials Science and Technology</i> , 2020, 46, 139-144.	10.7	10

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73	Constructing Implantable SrTiO ₃ :Yb, Ho Nanofibers for NIR-Triggered and Optically Monitored Chemotherapy. Chemistry - A European Journal, 2017, 23, 2423-2431.	3.3	9
74	Silica nanospheres entrapped with ultra-small luminescent crystals for protein delivery. Chemical Engineering Journal, 2017, 330, 166-174.	12.7	9
75	Electrical control of magnetic proximity effect in a graphene/multiferroic heterostructure. Applied Physics Letters, 2018, 113, .	3.3	9
76	Improved Room-Temperature Ferromagnetism in Self-Assembled Disk-Like Superstructures of Fe-Doped PbTiO ₃ Nanocrystals. Journal of the American Ceramic Society, 2010, 93, 3610-3613.	3.8	8
77	Shape-controlled synthesis of lead zirconate titanate nanocrystallites, microrods, microrolls and 3D complex architectures via the effects of poly-vinylalcohol macromolecular conformation. CrystEngComm, 2012, 14, 6783.	2.6	8
78	Ag-silica composite nanotube with controlled wall structures for biomedical applications. Colloids and Surfaces B: Biointerfaces, 2013, 111, 693-698.	5.0	8
79	Dissolution/recrystallization growth of titanate nanostructures by amorphous precursor. Advanced Powder Technology, 2014, 25, 745-751.	4.1	8
80	Single-crystal heterostructured PbTiO ₃ /CdS nanorods with enhanced visible-light-driven photocatalytic performance. RSC Advances, 2015, 5, 54454-54459.	3.6	8
81	Octahedral Shaped PbTiO ₃ -TiO ₂ Nanocomposites for High-Efficiency Photocatalytic Hydrogen Production. Nanomaterials, 2021, 11, 2295.	4.1	8
82	A Reduced Graphene Oxide (rGO)-Ferroelectrics Hybrid Nanocomposite as High Efficient Visible-Light-Driven Photocatalyst. ChemistrySelect, 2016, 1, 6020-6025.	1.5	7
83	Three-dimensional oriented attachment growth of single-crystal pre-perovskite PbTiO ₃ hollowed fibers. CrystEngComm, 2018, 20, 448-453.	2.6	7
84	Hydrothermal Synthesis, Photocatalytic and Magnetic Properties of Pure-Phase Bi ₂ Fe ₄ O ₉ Microstructures. Journal of Electronic Materials, 2021, 50, 954-959.	2.2	7
85	Pattern-Potential-Guided Growth of Textured Macromolecular Films on Graphene/High-Index Copper. Advanced Materials, 2021, 33, e2006836.	21.0	6
86	Preparation and characterization of single-crystal multiferroic nanofiber composites. Journal of Alloys and Compounds, 2013, 552, 518-523.	5.5	5
87	A flexible smart membrane consisting of GO composite fibres and upconversion MSNs for microRNA detection. Chemical Communications, 2019, 55, 9104-9107.	4.1	5
88	Length-controlled synthesis and the photoluminescence of pre-perovskite PbTiO ₃ nanofibers. CrystEngComm, 2014, 16, 3567-3572.	2.6	4
89	Improved ferromagnetic properties of electrospun NiFe ₂ O ₄ with tunable morphology: from multiparticle-chain to single-particle-chain. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	4
90	Li-ion induced three-dimensional aggregation growth of single-crystal perovskite octahedrons. CrystEngComm, 2016, 18, 7849-7854.	2.6	4

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91	Reversible magnetism transition at ferroelectric oxide heterointerface. <i>Science Bulletin</i> , 2020, 65, 2094-2099.	9.0	4
92	Molecular-mediated crystal growth of PbTiO ₃ nanostructure on silicon substrate. <i>Applied Surface Science</i> , 2011, 257, 9768-9772.	6.1	3
93	Core-shell SrTiO ₃ :Yb ³⁺ ,Er ³⁺ @mSiO ₂ nanoparticles for controlled and monitored doxorubicin delivery. <i>RSC Advances</i> , 2016, 6, 26280-26287.	3.6	3
94	Investigation on CO catalytic oxidation reaction kinetics of faceted perovskite nanostructures loaded with Pt. <i>RSC Advances</i> , 2017, 7, 6102-6107.	3.6	3
95	Ferroelectric Polarization Induced Selective Growth of BiFeO ₃ Nanocrystals with a Remarkable Ferromagnetism. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 1945-1950.	2.0	3
96	Crystal growth of ferroelectric PbTiO ₃ nanocrystals on silicon substrate via intermediates. <i>Materials Research Bulletin</i> , 2012, 47, 912-916.	5.2	2
97	Soft Mode Driven Monoclinic Phase in Multiferroic BiFeO ₃ . <i>Integrated Ferroelectrics</i> , 2011, 128, 71-77.	0.7	1
98	CO Catalytic Oxidation of Pt-Loaded Perovskite BaTiO ₃ Near Ferroelectric-Phase Transition Temperature. <i>Acta Metallurgica Sinica (English Letters)</i> , 2018, 31, 1031-1037.	2.9	1
99	Polarization screening-induced epitaxial growth and interfacial magnetism of BiFeO ₃ /PbTiO ₃ nanoplates. <i>CrystEngComm</i> , 2020, 22, 639-645.	2.6	1
100	Perovskite Ferroelectric Nanoplates Induced a Highly Oriented Growth of P (VDF-TrFE) Films. <i>Wuli Huaxue Xuebao/ Acta Physico-Chimica Sinica</i> , 2017, 33, 1261-1266.	4.9	1
101	Size effect on the photoluminescence of single-crystal pre-perovskite nanofibers. , 2013, , .		0
102	Single-crystal PbTiO ₃ /PbZrO ₃ composite fibers formed by diffusion and epitaxial growth. <i>CrystEngComm</i> , 2014, 16, 10314-10320.	2.6	0
103	Nanosheets: Ultrathin Anatase TiO ₂ Nanosheets for High-Performance Photocatalytic Hydrogen Production (<i>Small</i> 16/2017). <i>Small</i> , 2017, 13, .	10.0	0
104	Polarization-induced selective growth of single-crystal heterostructured multiferroic nanoplates with giant magnetoelectric coupling. <i>Journal of Alloys and Compounds</i> , 2019, 787, 476-482.	5.5	0