

Zhao-Hui Ren

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6754717/publications.pdf>

Version: 2024-02-01

104
papers

2,544
citations

186265

28
h-index

243625

44
g-index

106
all docs

106
docs citations

106
times ranked

3975
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface Oxygen Vacancies Confined by Ferroelectric Polarization for Tunable CO Oxidation Kinetics. <i>Advanced Materials</i> , 2022, 34, e2202072.	21.0	13
2	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
3	Hydrothermal Synthesis, Photocatalytic and Magnetic Properties of Pure-Phase Bi ₂ Fe ₄ O ₉ Microstructures. <i>Journal of Electronic Materials</i> , 2021, 50, 954-959.	2.2	7
4	Patternâ€Potentialâ€Guided Growth of Textured Macromolecular Films on Graphene/Highâ€Index Copper. <i>Advanced Materials</i> , 2021, 33, e2006836.	21.0	6
5	Octahedral Shaped PbTiO ₃ -TiO ₂ Nanocomposites for High-Efficiency Photocatalytic Hydrogen Production. <i>Nanomaterials</i> , 2021, 11, 2295.	4.1	8
6	Polarization screening-induced epitaxial growth and interfacial magnetism of BiFeO ₃ /PbTiO ₃ nanoplates. <i>CrystEngComm</i> , 2020, 22, 639-645.	2.6	1
7	Reversible magnetism transition at ferroelectric oxide heterointerface. <i>Science Bulletin</i> , 2020, 65, 2094-2099.	9.0	4
8	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
9	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
10	FeS@BSA Nanoclusters to Enable H ₂ Sâ€Amplified ROSâ€Based Therapy with MRI Guidance. <i>Advanced Science</i> , 2020, 7, 1903512.	11.2	114
11	Nanopore-induced dielectric and piezoelectric enhancement in PbTiO ₃ nanowires. <i>Acta Materialia</i> , 2020, 187, 146-152.	7.9	14
12	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
13	Bismuth embedded silica nanoparticles loaded with autophagy suppressant to promote photothermal therapy. <i>Biomaterials</i> , 2019, 221, 119419.	11.4	54
14	A flexible smart membrane consisting of GO composite fibres and upconversion MSNs for microRNA detection. <i>Chemical Communications</i> , 2019, 55, 9104-9107.	4.1	5
15	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
16	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
17	Rare-earth-doped upconversion nanocrystals embedded mesoporous silica nanoparticles for multiple microRNA detection. <i>Chemical Engineering Journal</i> , 2019, 374, 863-869.	12.7	19
18	Multifunctional MoO ₂ -ICG nanoplatform for 808nm-mediated synergetic photodynamic/photothermal therapy. <i>Applied Materials Today</i> , 2019, 15, 472-481.	4.3	35

#	ARTICLE	IF	CITATIONS
19	Single-crystal TiO ₂ /SrTiO ₃ core-shell heterostructured nanowire arrays for enhanced photoelectrochemical performance. <i>Rare Metals</i> , 2019, 38, 369-378.	7.1	18
20	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
21	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
22	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
23	Tuning Interfacial Magnetic Ordering via Polarization Control in Ferroelectric SrTiO ₃ /PbTiO ₃ Heterostructure. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 10536-10542.	8.0	16
24	Single-Crystal BiFeO ₃ Nanoplates with Robust Antiferromagnetism. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 5785-5792.	8.0	15
25	Polarization-dependent epitaxial growth and photocatalytic performance of ferroelectric oxide heterostructures. <i>Nano Energy</i> , 2018, 45, 304-310.	16.0	50
26	Mesopores induced zero thermal expansion in single-crystal ferroelectrics. <i>Nature Communications</i> , 2018, 9, 1638.	12.8	43
27	Asymmetric Modulation on Exchange Field in a Graphene/BiFeO ₃ Heterostructure by External Magnetic Field. <i>Nano Letters</i> , 2018, 18, 2435-2441.	9.1	22
28	Three-dimensional oriented attachment growth of single-crystal pre-perovskite PbTiO ₃ hollowed fibers. <i>CrystEngComm</i> , 2018, 20, 448-453.	2.6	7
29	Electrical control of magnetic proximity effect in a graphene/multiferroic heterostructure. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	9
30	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
31	Upconversion nanocrystal "armoured" silica fibres with superior photoluminescence for miRNA detection. <i>Chemical Communications</i> , 2018, 54, 6324-6327.	4.1	35
32	Multifunctional Electrospun Nanofibers for Enhancing Localized Cancer Treatment. <i>Small</i> , 2018, 14, e1801183.	10.0	52
33	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
34	Electrostatic Force-Driven Oxide Heteroepitaxy for Interface Control. <i>Advanced Materials</i> , 2018, 30, e1707017.	21.0	23
35	Ultrathin Anatase TiO ₂ Nanosheets for High-Performance Photocatalytic Hydrogen Production. <i>Small</i> , 2017, 13, 1604115.	10.0	72
36	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

#	ARTICLE	IF	CITATIONS
37	Nanosheets: Ultrathin Anatase TiO ₂ Nanosheets for High-Performance Photocatalytic Hydrogen Production (Small 16(2017)). Small, 2017, 13, .	10.0	0
38	Interfacial Multiferroics of TiO ₂ /PbTiO ₃ Heterostructure Driven by Ferroelectric Polarization Discontinuity. ACS Applied Materials & Interfaces, 2017, 9, 1899-1906.	8.0	23
39	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
40	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
41	Silica nanospheres entrapped with ultra-small luminescent crystals for protein delivery. Chemical Engineering Journal, 2017, 330, 166-174.	12.7	9
42	Magnetic proximity effect in graphene coupled to a BiFeO ₃ nanoplate. Physical Review B, 2017, 95, .	3.2	57
43	Luminescent CaTiO ₃ :Yb,Er nanofibers co-conjugated with Rose Bengal and gold nanorods for potential synergistic photodynamic/photothermal therapy. Journal of Materials Chemistry B, 2017, 5, 5128-5136.	5.8	32
44	Perovskite Ferroelectric Nanoplates Induced a Highly Oriented Growth of P (VDF-TrFE) Films. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2017, 33, 1261-1266.	4.9	1
45	A Dual-Color Luminescent Localized Drug Delivery System with Ratiometric-Monitored Doxorubicin Release Functionalities. ACS Biomaterials Science and Engineering, 2016, 2, 652-661.	5.2	27
46	Core-shell SrTiO ₃ :Yb ³⁺ ,Er ³⁺ @mSiO ₂ nanoparticles for controlled and monitored doxorubicin delivery. RSC Advances, 2016, 6, 26280-26287.	3.6	3
47	A facile approach to upconversion crystalline CaF ₂ :Yb ³⁺ ,Tm ³⁺ @mSiO ₂ nanospheres for tumor therapy. RSC Advances, 2016, 6, 38365-38370.	3.6	13
48	Li-ion induced three-dimensional aggregation growth of single-crystal perovskite octahedrons. CrystEngComm, 2016, 18, 7849-7854.	2.6	4
49	A Fibrous Localized Drug Delivery Platform with NIR-Triggered and Optically Monitored Drug Release. Langmuir, 2016, 32, 9083-9090.	3.5	45
50	Colossal dielectric performance of pure barium titanate ceramics consolidated by spark plasma sintering. RSC Advances, 2016, 6, 75422-75429.	3.6	28
51	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
52	A Reduced Graphene Oxide (rGO)-Ferroelectrics Hybrid Nanocomposite as High Efficient Visible-Light-Driven Photocatalyst. ChemistrySelect, 2016, 1, 6020-6025.	1.5	7
53	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
54	Optically Monitoring Mineralization and Demineralization on Photoluminescent Bioactive Nanofibers. Langmuir, 2016, 32, 3226-3233.	3.5	17

#	ARTICLE	IF	CITATIONS
55	Synthesis of CaTiO ₃ Nanofibers with Controllable Drug Release Kinetics. European Journal of Inorganic Chemistry, 2015, 2015, 4532-4538.	2.0	11
56	Crystallization and concentration modulated tunable upconversion luminescence of Er ³⁺ doped PZT nanofibers. Journal of Materials Chemistry C, 2015, 3, 382-389.	5.5	23
57	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
58	Single-crystal heterostructured PbTiO ₃ /CdS nanorods with enhanced visible-light-driven photocatalytic performance. RSC Advances, 2015, 5, 54454-54459.	3.6	8
59	Near-infrared luminescent CaTiO ₃ :Nd ³⁺ nanofibers with tunable and trackable drug release kinetics. Journal of Materials Chemistry B, 2015, 3, 7449-7456.	5.8	34
60	pH-Triggered SrTiO ₃ :Er Nanofibers with Optically Monitored and Controlled Drug Delivery Functionality. ACS Applied Materials & Interfaces, 2015, 7, 25514-25521.	8.0	25
61	Facile synthesis and visible photocatalytic activity of single-crystal TiO ₂ /PbTiO ₃ heterostructured nanofiber composites. CrystEngComm, 2015, 17, 1024-1029.	2.6	20
62	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
63	Single-crystal PbTiO ₃ /PbZrO ₃ composite fibers formed by diffusion and epitaxial growth. CrystEngComm, 2014, 16, 10314-10320.	2.6	0
64	Synthesis of vinyl end-capped polydimethylsiloxane by ring opening polymerization of octamethylcyclotetrasiloxane (D4) catalyzed by rare earth solid super acid SO ₄ ²⁻ /TiO ₂ /Ln ³⁺ . Polymer International, 2014, 63, 347-351.	3.1	10
65	Tunable photoluminescence properties of well-aligned ZnO nanorod array by oxygen plasma post-treatment. Applied Surface Science, 2014, 289, 252-256.	6.1	35
66	The hydrothermal synthesis and formation mechanism of single-crystalline perovskite BiFeO ₃ microplates with dominant (012) facets. CrystEngComm, 2014, 16, 4176-4182.	2.6	47
67	Octahedral-shaped perovskite nanocrystals and their visible-light photocatalytic activity. Chemical Communications, 2014, 50, 6027-6030.	4.1	26
68	Length-controlled synthesis and the photoluminescence of pre-perovskite PbTiO ₃ nanofibers. CrystEngComm, 2014, 16, 3567-3572.	2.6	4
69	Facile synthesis of PbTiO ₃ truncated octahedra via solid-state reaction and their application in low-temperature CO oxidation by loading Pt nanoparticles. Journal of Materials Chemistry A, 2014, 2, 9035-9039.	10.3	12
70	Growth and Bending-Sensitive Photoluminescence of a Flexible PbTiO ₃ /ZnO Nanocomposite. ACS Applied Materials & Interfaces, 2014, 6, 10935-10940.	8.0	13
71	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
72	Dissolution/recrystallization growth of titanate nanostructures by amorphous precursor. Advanced Powder Technology, 2014, 25, 745-751.	4.1	8

#	ARTICLE	IF	CITATIONS
73	Monodisperse hollow perovskite BaTiO ₃ nanostructures prepared by a sol-gel hydrothermal method. <i>Ceramics International</i> , 2014, 40, 9663-9670.	4.8	33
74	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
75	Ag-silica composite nanotube with controlled wall structures for biomedical applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 111, 693-698.	5.0	8
76	Hydrothermal synthesis of ferroelectric PbTiO ₃ nanoparticles with dominant {001} facets by titanate nanostructure. <i>CrystEngComm</i> , 2013, 15, 8036.	2.6	12
77	Preparation and characterization of single-crystal multiferroic nanofiber composites. <i>Journal of Alloys and Compounds</i> , 2013, 552, 518-523.	5.5	5
78	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
79	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
80	Size effect on the photoluminescence of single-crystal pre-perovskite nanofibers. , 2013, , .		0
81	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
82	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
83	Facile synthesis of single-crystalline mesoporous Î±-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
84	Self-Templated Synthesis of Single-Crystal and Single-Domain Ferroelectric Nanoplates. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9283-9287.	13.8	76
85	Shape-controlled synthesis of lead zirconate titanate nanocrystallites, microrods, microrolls and 3D complex architectures via the effects of poly-vinylalcohol macromolecular conformation. <i>CrystEngComm</i> , 2012, 14, 6783.	2.6	8
86	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
87	Crystal-crystal phase transformation via surface-induced virtual premelting. <i>Physical Review B</i> , 2012, 85, .	3.2	40
88	Crystal growth of ferroelectric PbTiO ₃ nanocrystals on silicon substrate via intermediates. <i>Materials Research Bulletin</i> , 2012, 47, 912-916.	5.2	2
89	Hydrothermal synthesis, characterization and growth mechanism of single crystal lead titanate pyrochlore dendrites. <i>CrystEngComm</i> , 2011, 13, 1498-1503.	2.6	17
90	Single-crystal nanofibers of Zr-doped new structured PbTiO ₃ : hydrothermal synthesis, characterization and phase transformation. <i>Journal of Materials Chemistry</i> , 2011, 21, 3562.	6.7	19

#	ARTICLE	IF	CITATIONS
91	Theoretical and experimental study of Raman spectra of pre-perovskite PbTiO ₃ . Journal of Applied Physics, 2011, 110, .	2.5	10
92	Soft Mode Driven Monoclinic Phase in Multiferroic BiFeO ₃ . Integrated Ferroelectrics, 2011, 128, 71-77.	0.7	1
93	Molecular-mediated crystal growth of PbTiO ₃ nanostructure on silicon substrate. Applied Surface Science, 2011, 257, 9768-9772.	6.1	3
94	Singleâ€Crystalâ€Like Mesoporous SrTiO ₃ Spheres with Enhanced Photocatalytic Performance. Journal of the American Ceramic Society, 2010, 93, 1297-1305.	3.8	33
95	Improved Roomâ€Temperature Ferromagnetism in Selfâ€Assembled Diskâ€Like Superstructures of Feâ€Doped PbTiO ₃ Nanocrystals. Journal of the American Ceramic Society, 2010, 93, 3610-3613.	3.8	8
96	PbTiO ₃ Nanofibers with Edge-Shared TiO ₆ Octahedra. Journal of the American Chemical Society, 2010, 132, 5572-5573.	13.7	60
97	Synthesis and Characterization of Mesoporous SrTiO ₃ Spheres via a Poly Vinyl Alcoholâ€Assisted Hydrothermal Route. Journal of the American Ceramic Society, 2008, 91, 299-302.	3.8	19
98	Synthesis of Highly Dispersed Barium Titanate Nanoparticles by a Novel Solvothermal Method. Journal of the American Ceramic Society, 2008, 91, 315-318.	3.8	32
99	Roomâ€Temperature Synthesis of BaTiO ₃ Nanoparticles in Large Batches. Journal of the American Ceramic Society, 2008, 91, 3774-3780.	3.8	18
100	PVAâ€Assisted Hydrothermal Synthesis of SrTiO ₃ Nanoparticles with Enhanced Photocatalytic Activity for Degradation of RhB. Journal of the American Ceramic Society, 2008, 91, 3795-3799.	3.8	64
101	Room-temperature ferromagnetism in Fe-doped PbTiO ₃ nanocrystals. Applied Physics Letters, 2007, 91, .	3.3	130
102	Mineralizer-Assisted Hydrothermal Synthesis and Characterization of BiFeO ₃ Nanoparticles. Journal of the American Ceramic Society, 2007, 90, 2615-2617.	3.8	103
103	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
104	Alkali Metal Ions-Assisted Controllable Synthesis of Bismuth Ferrites by a Hydrothermal Method. Journal of the American Ceramic Society, 2007, 90, 3673-3675.	3.8	53