

Zhenquan Tan

List of Publications by Year in descending order

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68
papers

1,543
citations

331670

21
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330143

37
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69
all docs

69
docs citations

69
times ranked

2228
citing authors

#	ARTICLE	IF	CITATIONS
1	Titanium Dioxide: From Engineering to Applications. <i>Catalysts</i> , 2019, 9, 191.	3.5	277
2	Triple-shelled ZnO/ZnFe ₂ O ₄ heterojunctional hollow microspheres derived from Prussian Blue analogue as high-performance acetone sensors. <i>Sensors and Actuators B: Chemical</i> , 2018, 256, 374-382.	7.8	96
3	Hollow core-shell NiCo ₂ S ₄ @MoS ₂ dodecahedrons with enhanced performance for supercapacitors and hydrogen evolution reaction. <i>New Journal of Chemistry</i> , 2019, 43, 3601-3608.	2.8	70
4	Titanium peroxide nanoparticles enhanced cytotoxic effects of X-ray irradiation against pancreatic cancer model through reactive oxygen species generation in vitro and in vivo. <i>Radiation Oncology</i> , 2016, 11, 91.	2.7	67
5	Raman scattering of linear chains of strongly coupled Ag nanoparticles on SWCNTs. <i>Scientific Reports</i> , 2014, 4, 5238.	3.3	53
6	Synthesis of layered nanostructured TiO ₂ by hydrothermal method. <i>Advanced Powder Technology</i> , 2015, 26, 296-302.	4.1	47
7	Concave ZnFe ₂ O ₄ Hollow Octahedral Nanocages Derived from Fe-Doped MOF-5 for High-Performance Acetone Sensing at Low-Energy Consumption. <i>Inorganic Chemistry</i> , 2017, 56, 13646-13650.	4.0	46
8	Supramolecular Hydrogel of Bile Salts Triggered by Single-Walled Carbon Nanotubes. <i>Advanced Materials</i> , 2011, 23, 4053-4057.	21.0	45
9	Recent Advances of CeO ₂ -Based Electrocatalysts for Oxygen and Hydrogen Evolution as well as Nitrogen Reduction. <i>ChemElectroChem</i> , 2021, 8, 996-1020.	3.4	45
10	High-performance Ni nanocomposite anode fabricated from Gd-doped ceria nanocubes for low-temperature solid-oxide fuel cells. <i>Nano Energy</i> , 2014, 6, 103-108.	16.0	44
11	Boosting Hydrogen Evolution Electrocatalysis via Regulating the Electronic Structure in a Crystalline-Amorphous CoP/CeO ₂ Heterojunction. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 33151-33160.	8.0	41
12	Hierarchical CuO@ZnCo(OH) core-shell heterostructure on copper foam as three-dimensional binder-free electrodes for high performance asymmetric supercapacitors. <i>Journal of Power Sources</i> , 2020, 465, 228239.	7.8	40
13	Arrangement of palladium nanoparticles templated by supramolecular self-assembly of SDS wrapped on single-walled carbon nanotubes. <i>Chemical Communications</i> , 2010, 46, 4363.	4.1	38
14	Carbon coated nickel-cobalt bimetallic sulfides hollow dodecahedrons for a supercapacitor with enhanced electrochemical performance. <i>New Journal of Chemistry</i> , 2018, 42, 5128-5134.	2.8	38
15	Overcoming drug resistance with functional mesoporous titanium dioxide nanoparticles combining targeting, drug delivery and photodynamic therapy. <i>Journal of Materials Chemistry B</i> , 2018, 6, 7750-7759.	5.8	32
16	Particle size for photocatalytic activity of anatase TiO ₂ nanosheets with highly exposed {001} facets. <i>RSC Advances</i> , 2013, 3, 19268.	3.6	29
17	Defect-engineered TiO ₂ Hollow Spiny Nanocubes for Phenol Degradation under Visible Light Irradiation. <i>Scientific Reports</i> , 2018, 8, 5904.	3.3	28
18	Heterostructural Co/CeO ₂ /Co ₂ P/CoP@NC dodecahedrons derived from CeO ₂ -inserted zeolitic imidazolate framework-67 as efficient bifunctional electrocatalysts for overall water splitting. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 30559-30570.	7.1	28

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19	<i>In situ</i> formation of defect-engineered N-doped TiO ₂ porous mesocrystals for enhanced photo-degradation and PEC performance. <i>Nanoscale Advances</i> , 2019, 1, 1372-1379.	4.6	25
20	SiO ₂ -coated magnetic nano-Fe ₃ O ₄ photosensitizer for synergistic tumour-targeted chemo-photothermal therapy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 195, 111274.	5.0	24
21	A facile photoassisted route to synthesis N, F-codoped oxygen-deficient TiO ₂ with enhanced photocatalytic performance under visible light irradiation. <i>Applied Surface Science</i> , 2018, 434, 725-734.	6.1	23
22	LnFeO ₃ (Ln La, Nd, Sm) derived from bimetallic organic frameworks for gas sensor. <i>Journal of Alloys and Compounds</i> , 2022, 902, 163803.	5.5	23
23	Dual-stimuli-responsive TiO _x /DOX nanodrug system for lung cancer synergistic therapy. <i>RSC Advances</i> , 2018, 8, 21975-21984.	3.6	21
24	Annealing temperature-dependent porous ZnFe ₂ O ₄ olives derived from bimetallic organic frameworks for high-performance ethanol gas sensing. <i>Materials Chemistry and Physics</i> , 2020, 241, 122379.	4.0	21
25	Cantharidin-loaded functional mesoporous titanium peroxide nanoparticles for non-small cell lung cancer targeted chemotherapy combined with high effective photodynamic therapy. <i>Thoracic Cancer</i> , 2020, 11, 1476-1486.	1.9	20
26	Hollow CoP Encapsulated in an N-Doped Carbon Nanocage as an Efficient Bifunctional Electrocatalyst for Overall Water Splitting. <i>ACS Applied Nano Materials</i> , 2021, 4, 13450-13458.	5.0	20
27	Boosting the oxygen evolution electrocatalysis of high-entropy hydroxides by high-valence nickel species regulation. <i>Chemical Communications</i> , 2022, 58, 7682-7685.	4.1	20
28	Enhanced Antibacterial Property of Facet-Engineered TiO ₂ Nanosheet in Presence and Absence of Ultraviolet Irradiation. <i>Materials</i> , 2020, 13, 78.	2.9	19
29	Double-shelled carbon nanocages grafted with carbon nanotubes embedding Co nanoparticles for enhanced hydrogen evolution electrocatalysis. <i>Chemical Communications</i> , 2021, 57, 3022-3025.	4.1	16
30	Cyclic transformation in shape and crystal structure of C ₆₀ microcrystals. <i>CrystEngComm</i> , 2012, 14, 7787.	2.6	15
31	Direct Growth of Continuous and Uniform MoS ₂ Film on SiO ₂ /Si Substrate Catalyzed by Sodium Sulfate. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1570-1577.	4.6	15
32	One-pot synthesis of oleic acid modified monodispersed mesoporous TiO ₂ nanospheres with enhanced visible light photocatalytic performance. <i>Advanced Powder Technology</i> , 2018, 29, 1925-1932.	4.1	14
33	Ordered deposition of Pd nanoparticles on sodium dodecyl sulfate-functionalized single-walled carbon nanotubes. <i>Journal of Materials Chemistry</i> , 2011, 21, 12008.	6.7	13
34	Hierarchical MoO ₄ ²⁻ Intercalating γ -Co(OH) ₂ Nanosheet Assemblies: Green Synthesis and Ultrafast Reconstruction for Boosting Electrochemical Oxygen Evolution. <i>Energy & Fuels</i> , 2021, 35, 2775-2784.	5.1	13
35	Anisotropic Polyhedral Self-Assembly of Ag-CNT Nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 3978-3982.	0.9	12
36	Synthesis of surfactant-modified ZIF ₈ with controllable microstructures and their drug loading and sustained release behaviour. <i>IET Nanobiotechnology</i> , 2020, 14, 595-601.	3.8	12

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37	Enhancing the Fe ³⁺ Sensing Sensitivity by Energy Transfer and Phase Transformation in a Bimetallic Lanthanide Metal-Organic Framework. <i>ChemistrySelect</i> , 2018, 3, 9564-9570.	1.5	11
38	Triple-shelled CuO/CeO ₂ hollow nanospheres derived from metal-organic frameworks as highly efficient catalysts for CO oxidation. <i>New Journal of Chemistry</i> , 2019, 43, 16096-16102.	2.8	11
39	Interface Engineering and Phase Regulation in CoP/CePO ₄ Heterostuctures for Boosting Oxygen Evolution Electrocatalysis. <i>Energy & Fuels</i> , 2021, 35, 16760-16767.	5.1	11
40	CeO ₂ -modulated CoP derived from prussian blue analogue boosting hydrogen evolution reaction electrocatalysis. <i>Journal of Alloys and Compounds</i> , 2022, 913, 165334.	5.5	11
41	Oriented growth behavior of Ag nanoparticles using SDS as a shape director. <i>Journal of Colloid and Interface Science</i> , 2010, 348, 289-292.	9.4	10
42	A three dimensional N-doped graphene/CNTs/AC hybrid material for high-performance supercapacitors. <i>RSC Advances</i> , 2017, 7, 6664-6670.	3.6	9
43	High-Quality Inorganic Chemistry Teaching During COVID-19. <i>Journal of Chemical Education</i> , 2020, 97, 2945-2949.	2.3	7
44	Ammonium Salts: New Synergistic Additive for Chemical Vapor Deposition Growth of MoS ₂ . <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 12384-12390.	4.6	7
45	Facile deposition of gold nanoparticles on C60 microcrystals with unique shapes. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	6
46	Quenching ilmenite with a high-temperature and high-pressure phase using super-high-energy ball milling. <i>Scientific Reports</i> , 2014, 4, 4700.	3.3	6
47	Cobalt Doped in Zn-MOF Nanoparticles to Regulate Tumor Microenvironment for Tumor Chemo/Chemodynamic Therapy. <i>Chemistry - an Asian Journal</i> , 2022, 17, .	3.3	6
48	Plasmon enhanced luminescence in hierarchically structured Ag@ (Y _{0.95} Eu _{0.05}) ₂ O ₃ nanocomposites synthesized by ultrasonic spray pyrolysis. <i>Advanced Powder Technology</i> , 2019, 30, 1409-1418.	4.1	5
49	The gadolinium effect on crystallization behavior and luminescence of $\text{Yb}^{3+}:\text{NaYF}_4:\text{Er}^{3+}$ phase. <i>International Journal of Applied Ceramic Technology</i> , 2020, 17, 1445-1452.	2.1	5
50	Interface Engineering in CoP/CePO ₄ Derived from a Prussian Blue Analogue as a Highly Efficient Electrocatalyst for Alkaline Hydrogen Evolution Reaction. <i>ChemElectroChem</i> , 2021, 8, 3762-3766.	3.4	5
51	Hierarchical particle-on-sheet CoP fabricated by direct phosphorization of Co(OH) ₂ /ZIF-67 hybrid for boosting hydrogen evolution electrocatalysis. <i>Inorganic Chemistry Communication</i> , 2021, 134, 109058.	3.9	5
52	Sucrose-induced structural changes in LiNi _{0.5} Mn _{1.5} O ₄ . <i>RSC Advances</i> , 2014, 4, 27850.	3.6	4
53	Solution Effect on Synthesis of Polyaniline/rGO Composite for High-Performance Supercapacitor. <i>Nano</i> , 2017, 12, 1750088.	1.0	4
54	Synthesis of hollow donut-like carbon nitride for the visible light-driven highly efficient photocatalytic production of hydrogen and degradation of pollutants. <i>New Journal of Chemistry</i> , 2020, 44, 12247-12255.	2.8	4

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55	Interface engineering in the $\text{Ni-Co(OH)}_2/\text{ZIF-67}$ heterostructure for enhanced oxygen evolution electrocatalysis. <i>New Journal of Chemistry</i> , 2021, 45, 10199-10203.	2.8	4
56	Assembling hierarchical metal-oxo oxygen building units with a semirigid tetracarboxylate ligand into a three-dimensional framework for nitrobenzene sensing. <i>Dalton Transactions</i> , 2017, 46, 6523-6527.	3.3	3
57	Effect of ROS generation on highly dispersed 4-layer $\text{O-Ti}_7\text{O}_{13}$ nanosheets toward tumor synergistic therapy. <i>Materials Science and Engineering C</i> , 2021, 120, 111666.	7.3	3
58	Surface Structure Engineering of Nanosheet-Assembled NiFe_2O_4 Fluffy Flowers for Gas Sensing. <i>Nanomaterials</i> , 2021, 11, 297.	4.1	3
59	The TiO_2 topotactic transformation assisted trapping of an atomically dispersed Pt catalyst for low temperature CO oxidation. <i>RSC Advances</i> , 2019, 9, 16774-16778.	3.6	2
60	Up-converting nanoparticles synthesis using hydroxyl-oxo carboxyl chelating agents: Fluoride source effect. <i>Journal of Chemical Physics</i> , 2020, 153, 084706.	3.0	2
61	Preparation of 2D ultrathin titanium dioxide nanosheets with enhanced visible-light photocatalytic activity. <i>Micro and Nano Letters</i> , 2021, 16, 313-318.	1.3	2
62	In Situ Growth and Electrochemical Activation of Copper-Based Nickel-Cobalt Hydroxide for High-Performance Energy Storage Devices. <i>ACS Applied Energy Materials</i> , 2021, 4, 9460-9469.	5.1	2
63	Synthesis of CaMn_2O_4 -related electrocatalyst for oxygen evolution electrode of water-splitting. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1640, 1.	0.1	1
64	Soft X-ray-Enhanced Reactive Oxygen Species Generation in Mesoporous Titanium Peroxide and the Application in Tumor Synergistic Therapy. <i>ACS Applied Bio Materials</i> , 2020, 3, 7408-7417.	4.6	1
65	Direct Filament Formation of Biological Carbon Nanotube Suspensions. <i>Additional Conferences (Device Packaging HiTEC HiTEN & CICMT)</i> , 2012, 2012, 000132-000135.	0.2	1
66	An Fe-MIL100 Based Drug Delivery System for pH and Glutathione Dual-Responsive Drug Release. <i>ChemistrySelect</i> , 2021, 6, 12295-12299.	1.5	1
67	Plant polyphenol-involved coordination assembly-derived $\text{Mo}_3\text{Co}_3\text{C}/\text{Mo}_2\text{C}/\text{Co@NC}$ with phase regulation and interface engineering for efficient hydrogen evolution reaction electrocatalysis. <i>New Journal of Chemistry</i> , 0, ,	2.8	1
68	Organic-Ligand-Assisted Hydrothermal Synthesis of Tailor-Made Ceramic Nanocrystals. <i>Journal of Smart Processing</i> , 2014, 3, 341-345.	0.1	0