

Da Chen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1367340/publications.pdf>

Version: 2024-02-01

96
papers

9,606
citations

76326

40
h-index

45317

90
g-index

98
all docs

98
docs citations

98
times ranked

14754
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of silicone oil additive on swelling stress alleviation in the metal hydride reactor. International Journal of Hydrogen Energy, 2022, 47, 10308-10314.	7.1	2
2	Dual sites modulating MoO ₂ nanospheres for synergistically enhanced electrocatalysis of water oxidation. Chemical Engineering Journal, 2022, 443, 136339.	12.7	18
3	Boosting photocatalytic hydrogen evolution over 2D/0D graphene/H ₂ In ₂ O ₃ nanohybrids with regulated oxygen vacancies. Renewable Energy, 2022, 194, 868-874.	8.9	10
4	In situ growth of Z-scheme CuS/CuSCN heterojunction to passivate surface defects and enhance charge transport. Journal of Colloid and Interface Science, 2021, 590, 407-414.	9.4	16
5	2D Heterostructure of Amorphous CoFeB Coating Black Phosphorus Nanosheets with Optimal Oxygen Intermediate Absorption for Improved Electrocatalytic Water Oxidation. ACS Nano, 2021, 15, 12418-12428.	14.6	67
6	Rationally designed ternary CdSe/WS ₂ /g-C ₃ N ₄ hybrid photocatalysts with significantly enhanced hydrogen evolution activity and mechanism insight. International Journal of Hydrogen Energy, 2021, 46, 30344-30354.	7.1	24
7	Controllable synthesis of hydrogen bubbles via aeration method for efficient antioxidant process. Applied Nanoscience (Switzerland), 2021, 11, 833-840.	3.1	9
8	Recent Progress and Development in Inorganic Halide Perovskite Quantum Dots for Photoelectrochemical Applications. Small, 2020, 16, e1903398.	10.0	120
9	An artificially constructed direct Z-scheme heterojunction: WO ₃ nanoparticle decorated ZnIn ₂ S ₄ for efficient photocatalytic hydrogen production. Sustainable Energy and Fuels, 2020, 4, 1681-1692.	4.9	34
10	Surface defect-rich g-C ₃ N ₄ /TiO ₂ Z-scheme heterojunction for efficient photocatalytic antibiotic removal: rational regulation of free radicals and photocatalytic mechanism. Catalysis Science and Technology, 2020, 10, 8295-8304.	4.1	37
11	Stress measurement of MnNi _{4.5} Cr _{0.45} Mn _{0.05} alloy during hydrogen absorption-desorption process in a cylindrical reactor. International Journal of Hydrogen Energy, 2020, 45, 28175-28182.	7.1	4
12	Ultrasml Au nanoclusters for bioanalytical and biomedical applications: the undisclosed and neglected roles of ligands in determining the nanoclusters' catalytic activities. Nanoscale Horizons, 2020, 5, 1355-1367.	8.0	22
13	Functional Metal Sulfide Nanomaterials for Photocatalytic Hydrogen Evolution. , 2020, , 39-107.		0
14	Preparation and Photoelectrochemical Performances of CuSCN Thin Films Influenced by Electrodeposition Potential. Russian Journal of Electrochemistry, 2019, 55, 401-406.	0.9	1
15	<i>In situ</i> growth of a P-type CuSCN/Cu ₂ O heterojunction to enhance charge transport and suppress charge recombination. Journal of Materials Chemistry C, 2019, 7, 6872-6878.	5.5	25
16	Photoassisted Electrodeposition of Cobalt-Phosphate Cocatalyst on BiFeO ₃ Thin Film Photoanode for Highly Efficient Photoelectrochemical Performances of Water Oxidation. Journal of the Electrochemical Society, 2019, 166, D308-D314.	2.9	14
17	Facile synthesis of Er-doped BiFeO ₃ nanoparticles for enhanced visible light photocatalytic degradation of tetracycline hydrochloride. Journal of Sol-Gel Science and Technology, 2019, 90, 535-546.	2.4	22
18	Hydrogenated ZnIn ₂ S ₄ microspheres: boosting photocatalytic hydrogen evolution by sulfur vacancy engineering and mechanism insight. Physical Chemistry Chemical Physics, 2019, 21, 25484-25494.	2.8	59

#	ARTICLE	IF	CITATIONS
19	Enhanced photocatalytic activity of hydrogenated BiVO ₄ with rich surface-oxygen-vacancies for remarkable degradation of tetracycline hydrochloride. <i>Journal of Alloys and Compounds</i> , 2019, 783, 10-18.	5.5	37
20	Sol-gel-processed yttrium-doped NiO as hole transport layer in inverted perovskite solar cells for enhanced performance. <i>Applied Surface Science</i> , 2018, 441, 258-264.	6.1	106
21	Decoration of WS ₂ as an effective noble-metal free cocatalyst on ZnIn ₂ S ₄ for enhanced visible light photocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 18261-18269.	7.1	53
22	Recent progress in surface coating of cathode materials for lithium ion secondary batteries. <i>Journal of Alloys and Compounds</i> , 2017, 706, 24-40.	5.5	136
23	Crystal Structure, Magnetic and Optical Properties of Mn-Doped BiFeO ₃ by Hydrothermal Synthesis. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 544-549.	0.9	6
24	Synthesis of Ag-loaded SrTiO ₃ /TiO ₂ heterostructure nanotube arrays for enhanced photocatalytic performances. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	26
25	Facile synthesis of Sm-doped BiFeO ₃ nanoparticles for enhanced visible light photocatalytic performance. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2017, 220, 1-12.	3.5	109
26	Cesium-Containing Perovskite Solar Cell Based on Graphene/TiO ₂ Electron Transport Layer. <i>ChemistrySelect</i> , 2017, 2, 9433-9437.	1.5	21
27	Oxygen vacancies induced by zirconium doping in bismuth ferrite nanoparticles for enhanced photocatalytic performance. <i>Journal of Colloid and Interface Science</i> , 2017, 508, 237-247.	9.4	70
28	In situ decoration of CuSCN nanorod arrays with carbon quantum dots for highly efficient photoelectrochemical performance. <i>Carbon</i> , 2017, 125, 344-351.	10.3	32
29	Defective BiFeO ₃ with surface oxygen vacancies: Facile synthesis and mechanism insight into photocatalytic performance. <i>Solar Energy Materials and Solar Cells</i> , 2017, 171, 24-32.	6.2	121
30	Facile synthesis of CdS ZnWO ₄ composite photocatalysts for efficient visible light driven hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 1962-1969.	7.1	28
31	Hierarchical NiCo ₂ S ₄ Nanotube@NiCo ₂ S ₄ Nanosheet Arrays on Ni Foam for High Performance Supercapacitors. <i>Chemistry - an Asian Journal</i> , 2016, 11, 248-255.	3.3	100
32	Pd cocatalyst on Sm-doped BiFeO ₃ nanoparticles: synergetic effect of a Pd cocatalyst and samarium doping on photocatalysis. <i>RSC Advances</i> , 2016, 6, 34574-34587.	3.6	41
33	Enhancement in visible light photocatalytic activity of BiFeO ₃ photocatalysts by Pd cocatalyst. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	11
34	Facile Construction of g-C ₃ N ₄ Nanosheets/TiO ₂ Nanotube Arrays as Z-Scheme Photocatalyst with Enhanced Visible Light Performance. <i>ChemCatChem</i> , 2016, 8, 3064-3073.	3.7	81
35	One-pot synthesis of hollow NiSe@CoSe nanoparticles with improved performance for hybrid supercapacitors. <i>Journal of Power Sources</i> , 2016, 329, 314-322.	7.8	133
36	Catalytic combustion of hydrogen for residential heat supply application. <i>International Journal of Energy Research</i> , 2016, 40, 1979-1985.	4.5	16

#	ARTICLE	IF	CITATIONS
37	Hydrogenation-induced surface oxygen vacancies in BiFeO ₃ nanoparticles for enhanced visible light photocatalytic performance. <i>Journal of Alloys and Compounds</i> , 2016, 688, 399-406.	5.5	71
38	Polyaniline-wrapping hollow sulfur with MCM-41 template and improved capacity and cycling performance of lithium sulfur batteries. <i>Renewable Energy</i> , 2016, 99, 289-294.	8.9	14
39	Enhanced visible light photocatalytic activity of Gd-doped BiFeO ₃ nanoparticles and mechanism insight. <i>Scientific Reports</i> , 2016, 6, 26467.	3.3	212
40	Synergistic effect of Ni and Co ions on molybdates for superior electrochemical performance. <i>Electrochimica Acta</i> , 2016, 190, 57-63.	5.2	51
41	Dual-shell hollow polyaniline/sulfur-core/polyaniline composites improving the capacity and cycle performance of lithium-sulfur batteries. <i>Applied Surface Science</i> , 2016, 375, 215-222.	6.1	28
42	Ternary graphene/sulfur/SiO ₂ composite as stable cathode for high performance lithium/sulfur battery. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 1819-1827.	7.1	43
43	Facile Synthesis of Graphene-Enwrapped Ag ₃ PO ₄ Composites with Highly Efficient Visible Light Photocatalytic Performance. <i>Nano</i> , 2016, 11, 1650001.	1.0	7
44	Enhanced cycle performance of hollow polyaniline sphere/sulfur composite in comparison with pure sulfur for lithium-sulfur batteries. <i>Renewable Energy</i> , 2016, 86, 148-153.	8.9	29
45	Facile Synthesis of Highly Efficient Heterojunction CuO/BiFeO ₃ Composite Photocatalysts with Enhanced Visible Light Photocatalytic Activity. <i>ChemCatChem</i> , 2015, 7, 3279-3289.	3.7	103
46	Enhanced cycling stability of spinel LiMn ₂ O ₄ cathode by incorporating graphene sheets. <i>Russian Journal of Electrochemistry</i> , 2015, 51, 125-133.	0.9	4
47	Synthesis of Pt/BiFeO ₃ heterostructured photocatalysts for highly efficient visible-light photocatalytic performances. <i>Solar Energy Materials and Solar Cells</i> , 2015, 143, 386-396.	6.2	129
48	Comparative study of Al ₂ O ₃ -coated LiCoO ₂ electrode derived from different Al precursors: uniformity, microstructure and electrochemical properties. <i>Electrochimica Acta</i> , 2015, 178, 447-457.	5.2	34
49	Bimetallic nickel cobalt selenides: a new kind of electroactive material for high-power energy storage. <i>Journal of Materials Chemistry A</i> , 2015, 3, 23653-23659.	10.3	245
50	Graphene-wrapped ZnO nanospheres as a photocatalyst for high performance photocatalysis. <i>Thin Solid Films</i> , 2015, 574, 1-9.	1.8	61
51	Preparation and enhanced photocatalytic performance of one-dimensional ZnO nanorods. <i>Environmental Progress and Sustainable Energy</i> , 2015, 34, 74-80.	2.3	13
52	Porous TiO ₂ nanowire microsphere constructed by spray drying and its electrochemical lithium storage properties. <i>Microscopy Research and Technique</i> , 2014, 77, 170-175.	2.2	2
53	Facile synthesis of graphene-silicon nanocomposites with an advanced binder for high-performance lithium-ion battery anodes. <i>Solid State Ionics</i> , 2014, 254, 65-71.	2.7	89
54	Solvothermal synthesis of V ₂ O ₅ /graphene nanocomposites for high performance lithium ion batteries. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2014, 185, 7-12.	3.5	58

#	ARTICLE	IF	CITATIONS
55	Preparation and enhanced visible-light driven photocatalytic properties of Au-loaded TiO ₂ nanotube arrays. Superlattices and Microstructures, 2014, 75, 890-900.	3.1	41
56	Hydrogen generation from Al/NaBH ₄ hydrolysis promoted by Co nanoparticles and NaAlO ₂ solution. Renewable Energy, 2013, 60, 637-642.	8.9	21
57	Hydrolysis of AlLi/NaBH ₄ system promoted by Co powder with different particle size and amount as synergistic hydrogen generation for portable fuel cell. International Journal of Hydrogen Energy, 2013, 38, 10857-10863.	7.1	10
58	Fabrication of self-organized TiO ₂ nanotube arrays for photocatalytic reduction of CO ₂ . Journal of Solid State Electrochemistry, 2013, 17, 2503-2510.	2.5	21
59	Graphene and its derivatives for the development of solar cells, photoelectrochemical, and photocatalytic applications. Energy and Environmental Science, 2013, 6, 1362.	30.8	355
60	Facile Synthesis of Graphene Nanosheets and their Anode Electrochemical Performances in Lithium Ion Batteries. Advanced Materials Research, 2013, 800, 522-525.	0.3	0
61	TiO ₂ Nanotube Arrays Prepared by Electrochemical Anodization: Influence of Anodization Conditions on Structure and Photocatalytic Activities. Nanoscience and Nanotechnology Letters, 2013, 5, 785-790.	0.4	1
62	Facile Synthesis of Waxberry-Like ZnO Nanospheres for High Performance Photocatalysis. Science of Advanced Materials, 2013, 5, 1642-1648.	0.7	9
63	Facile Synthesis of Donut-like TiO ₂ -SnO ₂ Nanocomposite Microspheres by a Two-step Hydrothermal Reaction and Subsequent Spray Drying Process and Its Electrochemical Lithium Storage Properties. Journal of New Materials for Electrochemical Systems, 2013, 16, 083-087.	0.6	1
64	Graphene Oxide: Preparation, Functionalization, and Electrochemical Applications. Chemical Reviews, 2012, 112, 6027-6053.	47.7	3,024
65	Controllable synthesis of well-ordered TiO ₂ nanotubes in a mixed organic electrolyte for high-efficiency photocatalysis. Science China Chemistry, 2012, 55, 2373-2380.	8.2	7
66	Hydrogen generation by hydrolysis of Al-Li-Bi-NaCl mixture with pure water. International Journal of Hydrogen Energy, 2012, 37, 1014-1020.	7.1	58
67	Hydrogen generation from hydrolysis of aluminum/graphite composites with a core-shell structure. International Journal of Hydrogen Energy, 2012, 37, 7457-7463.	7.1	72
68	Microstructure of Al-Li alloy and its hydrolysis as portable hydrogen source for proton-exchange membrane fuel cells. International Journal of Hydrogen Energy, 2011, 36, 9791-9798.	7.1	32
69	Effects of amalgam on hydrogen generation by hydrolysis of aluminum with water. International Journal of Hydrogen Energy, 2011, 36, 15119-15124.	7.1	59
70	Hydrogen generation from Al/NaBH ₄ hydrolysis promoted by Li-NiCl ₂ additives. International Journal of Hydrogen Energy, 2011, 36, 15673-15680.	7.1	16
71	Portable hydrogen generation from activated Al-Li-Bi alloys in water. Renewable Energy, 2011, 36, 3061-3067.	8.9	18
72	Preparation of Well-Ordered TiO ₂ Nanotube Arrays by Electrochemical Anodization of Titanium Foil in Neutral Electrolytes. Advanced Materials Research, 2011, 233-235, 2047-2050.	0.3	0

#	ARTICLE	IF	CITATIONS
73	Electrochemical Corrosion of Al-Li-Sn Alloy in Water for Portable Hydrogen Sources Effect of Aluminum. <i>Journal of New Materials for Electrochemical Systems</i> , 2011, 14, 197-202.	0.6	1
74	Microstructure Analysis and Hydrolysis Mechanism of AlLi Alloys Activated by Metal Additives for Hydrogen Generation. <i>Journal of New Materials for Electrochemical Systems</i> , 2011, 14, 259-264.	0.6	1
75	Graphene-based materials in electrochemistry. <i>Chemical Society Reviews</i> , 2010, 39, 3157.	38.1	1,297
76	Biofunctional Titania Nanotubes for Visible-Light-Activated Photoelectrochemical Biosensing. <i>Analytical Chemistry</i> , 2010, 82, 2253-2261.	6.5	206
77	Interfacial Functionalization of TiO ₂ with Smart Polymers: pH-Controlled Switching of Photocurrent Direction. <i>Journal of Physical Chemistry C</i> , 2010, 114, 10478-10483.	3.1	29
78	Energy-Efficient Photodegradation of Azo Dyes with TiO ₂ Nanoparticles Based on Photoisomerization and Alternate UV-Visible Light. <i>Environmental Science & Technology</i> , 2010, 44, 1107-1111.	10.0	77
79	Synthesis of Nanocrystalline TiO ₂ by a Salt-Leaching Assisted Sol-Gel Method and Their Photoelectrochemical Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 2456-2462.	0.9	2
80	Enhanced photoelectrochemical method for linear DNA hybridization detection using Au-nanoparticle labeled DNA as probe onto titanium dioxide electrode. <i>Biosensors and Bioelectronics</i> , 2008, 23, 1534-1539.	10.1	86
81	Layer-by-Layer Assembly of Noble Metal Nanoparticles on Glassy Carbon Electrode. <i>Chinese Journal of Chemistry</i> , 2008, 26, 276-280.	4.9	3
82	Tunable Photocurrent Spectrum in Well-Oriented Zinc Oxide Nanorod Arrays with Enhanced Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2008, 112, 8850-8855.	3.1	104
83	Tuning Photoelectrochemical Performances of Ag-TiO ₂ Nanocomposites via Reduction/Oxidation of Ag. <i>Chemistry of Materials</i> , 2008, 20, 6543-6549.	6.7	546
84	Preparation and Enhanced Photoelectrochemical Performance of Coupled Bicomponent ZnO-TiO ₂ Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2008, 112, 117-122.	3.1	186
85	Photoelectrochemical study of organic-inorganic hybrid thin films via electrostatic layer-by-layer assembly. <i>Electrochemistry Communications</i> , 2007, 9, 2151-2156.	4.7	51
86	Interfacial Bioelectrochemistry: Fabrication, Properties and Applications of Functional Nanostructured Biointerfaces. <i>Journal of Physical Chemistry C</i> , 2007, 111, 2351-2367.	3.1	155
87	Surface Tailoring for Controlled Photoelectrochemical Properties: Effect of Patterned TiO ₂ Microarrays. <i>Journal of Physical Chemistry C</i> , 2007, 111, 13163-13169.	3.1	38
88	A novel composite polymer electrolyte containing room-temperature ionic liquids and heteropolyacids for dye-sensitized solar cells. <i>Electrochemistry Communications</i> , 2007, 9, 2755-2759.	4.7	43
89	Interfacial design and functionization on metal electrodes through self-assembled monolayers. <i>Surface Science Reports</i> , 2006, 61, 445-463.	7.2	133
90	Abrasive Wear Behavior of Heat-Treated ABC Silicon Carbide. <i>Journal of the American Ceramic Society</i> , 2003, 86, 1370-1378.	3.8	23

#	ARTICLE	IF	CITATIONS
91	Cyclic Fatigueâ€Crack Growth and Fracture Properties in Ti ₃ SiC ₂ Ceramics at Elevated Temperatures. Journal of the American Ceramic Society, 2001, 84, 2914-2920.	3.8	68
92	The Effect of Temperature on the Structure of Grain Boundaries in Ni ₃ Al with and Without Boron. Materials Research Society Symposia Proceedings, 1992, 288, 197.	0.1	2
93	Computer Simulation of Grain Boundary Structures in Ni ₃ Al. Materials Research Society Symposia Proceedings, 1990, 193, 265.	0.1	0
94	On-Demand Hydrogen Generator Based on the Reaction between Aluminum Slurry and Alkaline Solution. Advanced Materials Research, 0, 347-353, 3242-3245.	0.3	3
95	Study on Hydrogen Generation from Al ^{Li} /NaBH ₄ Mixture in Pure Water for Portable Fuel Cell. Advanced Materials Research, 0, 239-242, 1058-1061.	0.3	0
96	Preparation and Photocatalysis Properties of TiO ₂ /Graphene Nanocomposites. Advanced Materials Research, 0, 430-432, 1005-1008.	0.3	1