Da Chen

List of Publications by Year
in descending order

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	Graphene Oxide: Preparation, Functionalization, and Electrochemical Applications. Chemical Reviews, 2012, 112, 6027-6053.	47.7	3,024
2	Graphene-based materials in electrochemistry. Chemical Society Reviews, 2010, 39, 3157.	38.1	1,297
3	Tuning Photoelectrochemical Performances of Agâ^'TiO₂ Nanocomposites via Reduction/Oxidation of Ag. Chemistry of Materials, 2008, 20, 6543-6549.	6.7	546
4	Graphene and its derivatives for the development of solar cells, photoelectrochemical, and photocatalytic applications. Energy and Environmental Science, 2013, 6, 1362.	30.8	355
5	Bimetallic nickel cobalt selenides: a new kind of electroactive material for high-power energy storage. Journal of Materials Chemistry A, 2015, 3, 23653-23659.	10.3	245
6	Enhanced visible light photocatalytic activity of Gd-doped BiFeO3 nanoparticles and mechanism insight. Scientific Reports, 2016, 6, 26467.	3.3	212
7	Biofunctional Titania Nanotubes for Visible-Light-Activated Photoelectrochemical Biosensing. Analytical Chemistry, 2010, 82, 2253-2261.	6.5	206
8	Preparation and Enhanced Photoelectrochemical Performance of Coupled Bicomponent ZnOâ^'TiO₂ Nanocomposites. Journal of Physical Chemistry C, 2008, 112, 117-122.	3.1	186
9	Interfacial Bioelectrochemistry:â€‰ Fabrication, Properties and Applications of Functional Nanostructured Biointerfaces. Journal of Physical Chemistry C, 2007, 111, 2351-2367.	3.1	155
10	Recent progress in surface coating of cathode materials for lithium ion secondary batteries. Journal of Alloys and Compounds, 2017, 706, 24-40.	5.5	136
11	Interfacial design and functionization on metal electrodes through self-assembled monolayers. Surface Science Reports, 2006, 61, 445-463.	7.2	133
12	One-pot synthesis of hollow NiSeâ€“CoSe nanoparticles with improved performance for hybrid supercapacitors. Journal of Power Sources, 2016, 329, 314-322.	7.8	133
13	Synthesis of Pt/BiFeO3 heterostructured photocatalysts for highly efficient visible-light photocatalytic performances. Solar Energy Materials and Solar Cells, 2015, 143, 386-396.	6.2	129
14	Defective BiFeO3 with surface oxygen vacancies: Facile synthesis and mechanism insight into photocatalytic performance. Solar Energy Materials and Solar Cells, 2017, 171, 24-32.	6.2	121
15	Recent Progress and Development in Inorganic Halide Perovskite Quantum Dots for Photoelectrochemical Applications. Small, 2020, 16, e1903398.	10.0	120
16	Facile synthesis of Sm-doped BiFeO 3 nanoparticles for enhanced visible light photocatalytic performance. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2017, 220, 1-12.	3.5	109
17	Sol-gel-processed yttrium-doped NiO as hole transport layer in inverted perovskite solar cells for enhanced performance. Applied Surface Science, 2018, 441, 258-264.	6.1	106
18	Tunable Photocurrent Spectrum in Well-Oriented Zinc Oxide Nanorod Arrays with Enhanced Photocatalytic Activity. Journal of Physical Chemistry C, 2008, 112, 8850-8855.	3.1	104

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19	Facile Synthesis of Highly Efficient pâ€“n Heterojunction CuO/BiFeO₃ Composite Photocatalysts with Enhanced Visibleâ€Light Photocatalytic Activity. ChemCatChem, 2015, 7, 3279-3289.	3.7	103
20	Hierarchical NiCo₂S₄ Nanotube@NiCo₂S₄ Nanosheet Arrays on Ni Foam for Highâ€Performance Supercapacitors. Chemistry - an Asian Journal, 2016, 11, 248-255.	3.3	100
21	Facile synthesis of grapheneâ€“silicon nanocomposites with an advanced binder for high-performance lithium-ion battery anodes. Solid State Ionics, 2014, 254, 65-71.	2.7	89
22	Enhanced photoelectrochemical method for linear DNA hybridization detection using Au-nanopaticle labeled DNA as probe onto titanium dioxide electrode. Biosensors and Bioelectronics, 2008, 23, 1534-1539.	10.1	86
23	Facile Construction of gâ€C₃N₄ Nanosheets/TiO₂ Nanotube Arrays as Zâ€Scheme Photocatalyst with Enhanced Visibleâ€Light Performance. ChemCatChem, 2016, 8, 3064-3073.	3.7	81
24	Energy-Efficient Photodegradation of Azo Dyes with TiO₂ Nanoparticles Based on Photoisomerization and Alternate UVâ^Visible Light. Environmental Science & Technology, 2010, 44, 1107-1111.	10.0	77
25	Hydrogen generation from hydrolysis of aluminum/graphite composites with a coreâ€“shell structure. International Journal of Hydrogen Energy, 2012, 37, 7457-7463.	7.1	72
26	Hydrogenation-induced surface oxygen vacancies in BiFeO3 nanoparticles for enhanced visible light photocatalytic performance. Journal of Alloys and Compounds, 2016, 688, 399-406.	5.5	71
27	Oxygen vacancies induced by zirconium doping in bismuth ferrite nanoparticles for enhanced photocatalytic performance. Journal of Colloid and Interface Science, 2017, 508, 237-247.	9.4	70
28	Cyclic Fatigueâ€Crack Growth and Fracture Properties in Ti₃SiC₂ Ceramics at Elevated Temperatures. Journal of the American Ceramic Society, 2001, 84, 2914-2920.	3.8	68
29	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
30	Graphene-wrapped ZnO nanospheres as a photocatalyst for high performance photocatalysis. Thin Solid Films, 2015, 574, 1-9.	1.8	61
31	Effects of amalgam on hydrogen generation by hydrolysis of aluminum with water. International Journal of Hydrogen Energy, 2011, 36, 15119-15124.	7.1	59
32	Hydrogenated ZnIn₂S₄ microspheres: boosting photocatalytic hydrogen evolution by sulfur vacancy engineering and mechanism insight. Physical Chemistry Chemical Physics, 2019, 21, 25484-25494.	2.8	59
33	Hydrogen generation by hydrolysis of Alâ€“Liâ€“Biâ€“NaCl mixture with pure water. International Journal of Hydrogen Energy, 2012, 37, 1014-1020.	7.1	58
34	Solvothermal synthesis of V2O5/graphene nanocomposites for high performance lithium ion batteries. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2014, 185, 7-12.	3.5	58
35	Decoration of WS2 as an effective noble-metal free cocatalyst on ZnIn2S4 for enhanced visible light photocatalytic hydrogen evolution. International Journal of Hydrogen Energy, 2018, 43, 18261-18269.	7.1	53
36	Photoelectrochemical study of organicâ€“inorganic hybrid thin films via electrostatic layer-by-layer assembly. Electrochemistry Communications, 2007, 9, 2151-2156.	4.7	51

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37	Synergistic effect of Ni and Co ions on molybdates for superior electrochemical performance. Electrochimica Acta, 2016, 190, 57-63.	5.2	51
38	A novel composite polymer electrolyte containing room-temperature ionic liquids and heteropolyacids for dye-sensitized solar cells. Electrochemistry Communications, 2007, 9, 2755-2759.	4.7	43
39	Ternary graphene/sulfur/SiO2 composite as stable cathode for high performance lithium/sulfur battery. International Journal of Hydrogen Energy, 2016, 41, 1819-1827.	7.1	43
40	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
41	Pd cocatalyst on Sm-doped BiFeO₃nanoparticles: synergetic effect of a Pd cocatalyst and samarium doping on photocatalysis. RSC Advances, 2016, 6, 34574-34587.	3.6	41
42	Surface Tailoring for Controlled Photoelectrochemical Properties:â€‰ Effect of Patterned TiO2Microarrays. Journal of Physical Chemistry C, 2007, 111, 13163-13169.	3.1	38
43	Enhanced photocatalytic activity of hydrogenated BiVO4 with rich surface-oxygen-vacancies for remarkable degradation of tetracycline hydrochloride. Journal of Alloys and Compounds, 2019, 783, 10-18.	5.5	37
44	Surface defect-rich g-C₃N₄/TiO₂ 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
45	Comparative study of Al 2 O 3 -coated LiCoO 2 electrode derived from different Al precursors: uniformity, microstructure and electrochemical properties. Electrochimica Acta, 2015, 178, 447-457.	5.2	34
46	An artificially constructed direct Z-scheme heterojunction: WO₃ nanoparticle decorated ZnIn₂S₄ for efficient photocatalytic hydrogen production. Sustainable Energy and Fuels, 2020, 4, 1681-1692.	4.9	34
47	Microstructure of Alâ€“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
48	In situ decoration of CuSCN nanorod arrays with carbon quantum dots for highly efficient photoelectrochemical performance. Carbon, 2017, 125, 344-351.	10.3	32
49	Interfacial Functionalization of TiO2 with Smart Polymers: pH-Controlled Switching of Photocurrent Direction. Journal of Physical Chemistry C, 2010, 114, 10478-10483.	3.1	29
50	Enhanced cycle performance of hollow polyaniline sphere/sulfur composite in comparison with pure sulfur for lithiumâ€“sulfur batteries. Renewable Energy, 2016, 86, 148-153.	8.9	29
51	Dual-shell hollow polyaniline/sulfur-core/polyaniline composites improving the capacity and cycle performance of lithiumâ€“sulfur batteries. Applied Surface Science, 2016, 375, 215-222.	6.1	28
52	Facile synthesis of CdS ZnWO4 composite photocatalysts for efficient visible light driven hydrogen evolution. International Journal of Hydrogen Energy, 2017, 42, 1962-1969.	7.1	28
53	Synthesis of Ag-loaded SrTiO3/TiO2 heterostructure nanotube arrays for enhanced photocatalytic performances. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	26
54	In situ growth of a P-type CuSCN/Cu₂O heterojunction to enhance charge transport and suppress charge recombination. Journal of Materials Chemistry C, 2019, 7, 6872-6878.	5.5	25

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55	Rationally designed ternary CdSe/WS2/g-C3N4 hybrid photocatalysts with significantly enhanced hydrogen evolution activity and mechanism insight. International Journal of Hydrogen Energy, 2021, 46, 30344-30354.	7.1	24
56	Abrasive Wear Behavior of Heatâ€Treated ABCâ€Silicon Carbide. Journal of the American Ceramic Society, 2003, 86, 1370-1378.	3.8	23
57	Facile synthesis of Er-doped BiFeO3 nanoparticles for enhanced visible light photocatalytic degradation of tetracycline hydrochloride. Journal of Sol-Gel Science and Technology, 2019, 90, 535-546.	2.4	22
58	Ultrasmall 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
59	Hydrogen generation from Al/NaBH4 hydrolysis promoted by Co nanoparticles and NaAlO2 solution. Renewable Energy, 2013, 60, 637-642.	8.9	21
60	Fabrication of self-organized TiO2 nanotube arrays for photocatalytic reduction of CO2. Journal of Solid State Electrochemistry, 2013, 17, 2503-2510.	2.5	21
61	Cesium-Containing Perovskite Solar Cell Based on Graphene/TiO₂ Electron Transport Layer. ChemistrySelect, 2017, 2, 9433-9437.	1.5	21
62	Portable hydrogen generation from activated Alâ€“Liâ€“Bi alloys in water. Renewable Energy, 2011, 36, 3061-3067.	8.9	18
63	Dual sites modulating MoO2 nanospheres for synergistically enhanced electrocatalysis of water oxidation. Chemical Engineering Journal, 2022, 443, 136339.	12.7	18
64	Hydrogen generation from Al/NaBH4 hydrolysis promoted by Liâ€“NiCl2 additives. International Journal of Hydrogen Energy, 2011, 36, 15673-15680.	7.1	16
65	Catalytic combustion of hydrogen for residential heat supply application. International Journal of Energy Research, 2016, 40, 1979-1985.	4.5	16
66	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
67	Polyaniline-wrapping hollow sulfur with MCM-41 template and improved capacity and cycling performance of lithium sulfur batteries. Renewable Energy, 2016, 99, 289-294.	8.9	14
68	Photoassisted Electrodeposition of Cobalt-Phosphate Cocatalyst on BiFeO₃ Thin Film Photoanode for Highly Efficient Photoelectrochemical Performances of Water Oxidation. Journal of the Electrochemical Society, 2019, 166, D308-D314.	2.9	14
69	Preparation and enhanced photocatalytic performance of oneâ€dimensional ZnO nanorods. Environmental Progress and Sustainable Energy, 2015, 34, 74-80.	2.3	13
70	Enhancement in visible light photocatalytic activity of BiFeO3 photocatalysts by Pd cocatalyst. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	11
71	Hydrolysis of AlLi/NaBH4 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
72	Boosting photocatalytic hydrogen evolution over 2D/0D graphene/Hâ€“In2O3 nanohybrids with regulated oxygen vacancies. Renewable Energy, 2022, 194, 868-874.	8.9	10

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73	Controllable synthesis of hydrogen bubbles via aeration method for efficient antioxidant process. Applied Nanoscience (Switzerland), 2021, 11, 833-840.	3.1	9
74	Facile Synthesis of Waxberry-Like ZnO Nanospheres for High Performance Photocatalysis. Science of Advanced Materials, 2013, 5, 1642-1648.	0.7	9
75	Controllable synthesis of well-ordered TiO2 nanotubes in a mixed organic electrolyte for high-efficiency photocatalysis. Science China Chemistry, 2012, 55, 2373-2380.	8.2	7
76	Facile Synthesis of Grapheneâ€“Enwrapped Ag₃PO₄ Composites with Highly Efficient Visible Light Photocatalytic Performance. Nano, 2016, 11, 1650001.	1.0	7
77	Crystal Structure, Magnetic and Optical Properties of Mn-Doped BiFeO₃ by Hydrothermal Synthesis. Journal of Nanoscience and Nanotechnology, 2017, 17, 544-549.	0.9	6
78	Enhanced cycling stability of spinel LiMn2O4 cathode by incorporating graphene sheets. Russian Journal of Electrochemistry, 2015, 51, 125-133.	0.9	4
79	Stress measurement of MlNi4.5Cr0Â·45Mn0.05 alloy during hydrogen absorption-desorption process in a cylindrical reactor. International Journal of Hydrogen Energy, 2020, 45, 28175-28182.	7.1	4
80	Layerâ€byâ€layer Assembly of Noble Metal Nanoparticles on Glassy Carbon Electrode. Chinese Journal of Chemistry, 2008, 26, 276-280.	4.9	3
81	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
82	The Effect of Temperature on the Structure of Grain Boundaries in Ni3Al with and Without Boron. Materials Research Society Symposia Proceedings, 1992, 288, 197.	0.1	2
83	Synthesis of Nanocrystalline TiO₂ by a Salt-Leaching Assisted Solâ€“Gel Method and Their Photoelectrochemical Properties. Journal of Nanoscience and Nanotechnology, 2009, 9, 2456-2462.	0.9	2
84	Porous TiO₂nanowire microsphere constructed by spray drying and its electrochemical lithium storage properties. Microscopy Research and Technique, 2014, 77, 170-175.	2.2	2
85	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
86	Preparation and Photocatalysis Properties of TiO₂/Graphene Nanocomposites. Advanced Materials Research, 0, 430-432, 1005-1008.	0.3	1
87	Preparation and Photoelectrochemical Performances of CuSCN Thin Films Influenced by Electrodeposition Potential. Russian Journal of Electrochemistry, 2019, 55, 401-406.	0.9	1
88	TiO₂ 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
89	Electrochemical Corrosion of Al-Li-Sn Alloy in Water for Portable Hydrogen Sources Effect of Aluminum. Journal of New Materials for Electrochemical Systems, 2011, 14, 197-202.	0.6	1
90	Facile Synthesis of Donut-like TiO₂-SnO₂ 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

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91	Microstructure Analysis and Hydrolysis Mechanism of AlLi Alloys Activated by Metal Additives for Hydrogen Generation. Journal of New Materials for Electrochemical Systems, 2011, 14, 259-264.	0.6	1
92	Computer Simulation of Grain Boundary Structures in Ni3 Al. Materials Research Society Symposia Proceedings, 1990, 193, 265.	0.1	0
93	Preparation of Well-Ordered TiO₂ Nanotube Arrays by Electrochemical Anodization of Titanium Foil in Neutral Electrolytes. Advanced Materials Research, 2011, 233-235, 2047-2050.	0.3	0
94	Study on Hydrogen Generation from Alâ^'Li/NaBH₄ Mixture in Pure Water for Portable Fuel Cell. Advanced Materials Research, 0, 239-242, 1058-1061.	0.3	0
95	Facile Synthesis of Graphene Nanosheets and their Anode Electrochemical Performances in Lithium Ion Batteries. Advanced Materials Research, 2013, 800, 522-525.	0.3	0
96	Functional Metal Sulfide Nanomaterials for Photocatalytic Hydrogen Evolution. , 2020, , 39-107.		0