Xi-Wen Du

List of Publications by Year
in descending order

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Version: 2024-02-01

299 papers	18,015 citations	17429 63 h-index	16636 123 g-index
306 all docs	306 docs citations	306 times ranked	21443 citing authors

#	Article	IF	Citations
1	Porous P-doped graphitic carbon nitride nanosheets for synergistically enhanced visible-light photocatalytic H₂ production. Energy and Environmental Science, 2015, 8, 3708-3717.	15.6	1,146
2	One-step synthesis of fluorescent carbon nanoparticles by laser irradiation. Journal of Materials Chemistry, 2009, 19, 484-488.	6.7	829
3	Nanomaterials via Laser Ablation/Irradiation in Liquid: A Review. Advanced Functional Materials, 2012, 22, 1333-1353.	7.8	775
4	Superhydrophobic Surfaces: Are They Really Ice-Repellent?. Langmuir, 2011, 27, 25-29.	1.6	592
5	Engineering surface atomic structure of single-crystal cobalt (II) oxide nanorods for superior electrocatalysis. Nature Communications, 2016, 7, 12876.	5.8	568
6	Engineering oxygen vacancy on NiO nanorod arrays for alkaline hydrogen evolution. Nano Energy, 2018, 43, 103-109.	8.2	515
7	Theory-driven design of high-valence metal sites for water oxidation confirmed using in situ soft X-ray absorption. Nature Chemistry, 2018, 10, 149-154.	6.6	476
8	Identifying the Key Role of Pyridinicâ€Nâ€“Co Bonding in Synergistic Electrocatalysis for Reversible ORR/OER. Advanced Materials, 2018, 30, e1800005.	11.1	394
9	Sulfur-Modulated Tin Sites Enable Highly Selective Electrochemical Reduction of CO2 to Formate. Joule, 2017, 1, 794-805.	11.7	390
10	Nâ€Doped Graphene Natively Grown on Hierarchical Ordered Porous Carbon for Enhanced Oxygen Reduction. Advanced Materials, 2013, 25, 6226-6231.	11.1	388
11	Activating cobalt(II) oxide nanorods for efficient electrocatalysis by strain engineering. Nature Communications, 2017, 8, 1509.	5.8	361
12	An Approach to Obtaining Homogeneously Dispersed Carbon Nanotubes in Al Powders for Preparing Reinforced Al-Matrix Composites. Advanced Materials, 2007, 19, 1128-1132.	11.1	321
13	Rutheniumâ€Based Singleâ€Atom Alloy with High Electrocatalytic Activity for Hydrogen Evolution. Advanced Energy Materials, 2019, 9, 1803913.	10.2	270
14	Engineering NiO/NiFe LDH Intersection to Bypass Scaling Relationship for Oxygen Evolution Reaction via Dynamic Tridimensional Adsorption of Intermediates. Advanced Materials, 2019, 31, e1804769.	11.1	264
15	Stable Aqueous Dispersion of ZnO Quantum Dots with Strong Blue Emission via Simple Solution Route. Journal of the American Chemical Society, 2007, 129, 16029-16033.	6.6	261
16	A silver catalyst activated by stacking faults for the hydrogen evolution reaction. Nature Catalysis, 2019, 2, 1107-1114.	16.1	245
17	Atomically and Electronically Coupled Pt and CoO Hybrid Nanocatalysts for Enhanced Electrocatalytic Performance. Advanced Materials, 2017, 29, 1604607.	11.1	224
18	Wellâ€Dispersed Nickelâ€•and Zincâ€Tailored Electronic Structure of a Transition Metal Oxide for Highly Active Alkaline Hydrogen Evolution Reaction. Advanced Materials, 2019, 31, e1807771.	11.1	216

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19	Phase segregation reversibility in mixed-metal hydroxide water oxidation catalysts. Nature Catalysis, 2020, 3, 743-753.	16.1	199
20	Fully Oxidized Niâ€“Fe Layered Double Hydroxide with 100% Exposed Active Sites for Catalyzing Oxygen Evolution Reaction. ACS Catalysis, 2019, 9, 6027-6032.	5.5	165
21	Atomic-level structure engineering of metal oxides for high-rate oxygen intercalation pseudocapacitance. Science Advances, 2018, 4, eaau6261.	4.7	164
22	Copper adparticle enabled selective electrosynthesis of n-propanol. Nature Communications, 2018, 9, 4614.	5.8	153
23	Highly ordered mesoporous Cr₂O₃materials with enhanced performance for gas sensors and lithium ion batteries. Chemical Communications, 2012, 48, 865-867.	2.2	152
24	Irâ€“Oâ€“V Catalytic Group in Ir-Doped NiV(OH)₂ for Overall Water Splitting. ACS Energy Letters, 2019, 4, 1823-1829.	8.8	147
25	Morphology Control of Nanostructures via Surface Reaction of Metal Nanodroplets. Journal of the American Chemical Society, 2010, 132, 9814-9819.	6.6	140
26	Progress and Challenges Toward the Rational Design of Oxygen Electrocatalysts Based on a Descriptor Approach. Advanced Science, 2020, 7, 1901614.	5.6	133
27	Multiscale Structural Engineering of Niâ€Ðoped CoO Nanosheets for Zincâ€“Air Batteries with High Power Density. Advanced Materials, 2018, 30, e1804653.	11.1	131
28	Charge distribution guided by grain crystallographic orientations in polycrystalline battery materials. Nature Communications, 2020, 11, 83.	5.8	129
29	Hollow Nanoparticles of Metal Oxides and Sulfides: Fast Preparation via Laser Ablation in Liquid. Langmuir, 2010, 26, 16652-16657.	1.6	118
30	Stable Rhodium (IV) Oxide for Alkaline Hydrogen Evolution Reaction. Advanced Materials, 2020, 32, e1908521.	11.1	115
31	Laser-Prepared CuZn Alloy Catalyst for Selective Electrochemical Reduction of CO₂ to Ethylene. Langmuir, 2018, 34, 13544-13549.	1.6	114
32	Top-Down Preparation of Active Cobalt Oxide Catalyst. ACS Catalysis, 2016, 6, 6699-6703.	5.5	113
33	Deciphering the Cathodeâ€“Electrolyte Interfacial Chemistry in Sodium Layered Cathode Materials. Advanced Energy Materials, 2018, 8, 1801975.	10.2	111
34	Laser synthesis of oxygen vacancy-modified CoOOH for highly efficient oxygen evolution. Chemical Communications, 2019, 55, 2904-2907.	2.2	110
35	Co₃O₄ Nanoparticles with Ultrasmall Size and Abundant Oxygen Vacancies for Boosting Oxygen Involved Reactions. Advanced Functional Materials, 2019, 29, 1903444.	7.8	108
36	A topâ€“down strategy towards monodisperse colloidal lead sulphide quantum dots. Nature Communications, 2013, 4, 1695.	5.8	106

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37	Freestanding Ultrathin Metallic Nanosheets: Materials, Synthesis, and Applications. Advanced Materials, 2015, 27, 5396-5402.	11.1	102
38	The icephobic performance of alkyl-grafted aluminum surfaces. Soft Matter, 2015, 11, 856-861.	1.2	101
39	Properties of Coreâ^'Shell Niâ^'Au Nanoparticles Synthesized through a Redox-Transmetalation Method in Reverse Microemulsion. Chemistry of Materials, 2007, 19, 3399-3405.	3.2	100
40	Engineering hierarchical nanotrees with CuCo₂O₄ trunks and NiO branches for high-performance supercapacitors. Journal of Materials Chemistry A, 2017, 5, 5820-5828.	5.2	100
41	Synthesis of Palladiumâ€Based Crystalline@Amorphous Coreâ€"Shell Nanoplates for Highly Efficient Ethanol Oxidation. Advanced Materials, 2020, 32, e2000482.	11.1	98
42	Revealing the Dynamics and Roles of Iron Incorporation in Nickel Hydroxide Water Oxidation Catalysts. Journal of the American Chemical Society, 2021, 143, 18519-18526.	6.6	96
43	Strongly Coupled Nafion Molecules and Ordered Porous CdS Networks for Enhanced Visibleâ€Light Photoelectrochemical Hydrogen Evolution. Advanced Materials, 2016, 28, 4935-4942.	11.1	95
44	Synthesis of hollow carbon nano-onions and their use for electrochemical hydrogen storage. Carbon, 2012, 50, 3513-3521.	5.4	94
45	Strongly Coupled CoO Nanoclusters/CoFe LDHs Hybrid as a Synergistic Catalyst for Electrochemical Water Oxidation. Small, 2018, 14, e1800195.	5.2	91
46	Ti3+ defect mediated g-C3N4/TiO2 Z-scheme system for enhanced photocatalytic redox performance. Applied Surface Science, 2018, 448, 288-296.	3.1	89
47	Operando Revealing Dynamic Reconstruction of NiCo Carbonate Hydroxide for High-Rate Energy Storage. Joule, 2020, 4, 673-687.	11.7	88
48	Formation of crystalline Si nanodots in SiO2 films by electron irradiation. Applied Physics Letters, 2003, 82, 1108-1110.	1.5	83
49	Zinc-Blende CdS Nanocubes with Coordinated Facets for Photocatalytic Water Splitting. ACS Catalysis, 2017, 7, 1470-1477.	5.5	83
50	A novel method for making open cell aluminum foams by powder sintering process. Materials Letters, 2005, 59, 3333-3336.	1.3	80
51	Bionic Design of a Mo(IV)-Doped FeS₂ Catalyst for Electroreduction of Dinitrogen to Ammonia. ACS Catalysis, 2020, 10, 4914-4921.	5.5	80
52	Silver/Copper Interface for Relay Electroreduction of Carbon Dioxide to Ethylene. ACS Applied Materials & Interfaces, 2019, 11, 2763-2767.	4.0	77
53	Complete UV emission of ZnO nanoparticles in a PMMA matrix. Semiconductor Science and Technology, 2006, 21, 1202-1206.	1.0	74
54	Low-temperature CVD synthesis of carbon-encapsulated magnetic Ni nanoparticles with a narrow distribution of diameters. Carbon, 2006, 44, 2330-2333.	5.4	74

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55	ZnS/ZnO Heteronanostructure as Photoanode to Enhance the Conversion Efficiency of Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2010, 114, 2380-2384.	1.5	74
56	Enhanced multi-carbon alcohol electroproduction from CO via modulated hydrogen adsorption. Nature Communications, 2020, 11, 3685.	5.8	72
57	Modest Oxygenâ€Defective Amorphous Manganeseâ€Based Nanoparticle Mullite with Superior Overall Electrocatalytic Performance for Oxygen Reduction Reaction. Small, 2017, 13, 1603903.	5.2	69
58	Iridium Oxide Modified with Silver Single Atom for Boosting Oxygen Evolution Reaction in Acidic Media. ACS Energy Letters, 0, , 1588-1595.	8.8	69
59	Electrocatalytic Reduction of Low-Concentration Nitric Oxide into Ammonia over Ru Nanosheets. ACS Energy Letters, 2022, 7, 1187-1194.	8.8	68
60	Gas-Phase Cation Exchange toward Porous Single-Crystal CoO Nanorods for Catalytic Hydrogen Production. Chemistry of Materials, 2015, 27, 352-357.	3.2	67
61	Ionic liquid-assisted synthesis of N/S-double doped graphene microwires for oxygen evolution and Znâ€“air batteries. Energy Storage Materials, 2015, 1, 17-24.	9.5	67
62	Tuning the selectivity and activity of Au catalysts for carbon dioxide electroreduction via grain boundary engineering: a DFT study. Journal of Materials Chemistry A, 2017, 5, 7184-7190.	5.2	66
63	Carbon nanotubes and onions from methane decomposition using Ni/Al catalysts. Materials Chemistry and Physics, 2006, 97, 109-115.	2.0	65
64	Interrogation of bimetallic particle oxidation in three dimensions at the nanoscale. Nature Communications, 2016, 7, 13335.	5.8	65
65	Control of Cu-doping and optical properties of ZnO quantum dots by laser ablation of composite targets. Materials Chemistry and Physics, 2011, 130, 425-430.	2.0	64
66	Surface plasmon resonance enhanced visible-light-driven photocatalytic activity in Cu nanoparticles covered Cu2O microspheres for degrading organic pollutants. Applied Surface Science, 2016, 366, 120-128.	3.1	64
67	Zn nanosheets coated with a ZnS subnanometer layer for effective and durable CO₂reduction. Journal of Materials Chemistry A, 2019, 7, 1418-1423.	5.2	63
68	The efficient synthesis of carbon nano-onions using chemical vapor deposition on an unsupported Niâ€“Fe alloy catalyst. Carbon, 2011, 49, 1151-1158.	5.4	62
69	Ultrafine diamond synthesized by long-pulse-width laser. Applied Physics Letters, 2006, 89, 183115.	1.5	60
70	Enhanced electrochemical hydrogen storage capacity of multi-walled carbon nanotubes by TiO2 decoration. International Journal of Hydrogen Energy, 2011, 36, 6739-6743.	3.8	60
71	Low-temperature synthesis of carbon onions by chemical vapor deposition using a nickel catalyst supported on aluminum. Scripta Materialia, 2006, 54, 689-693.	2.6	59
72	ZnO nanosheets with atomically thin ZnS overlayers for photocatalytic water splitting. Journal of Materials Chemistry A, 2018, 6, 9057-9063.	5.2	59

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73	Pyrite nanorod arrays as an efficient counter electrode for dye-sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 11828.	5.2	58
74	Laser synthesis of gold/oxide nanocomposites. Journal of Materials Chemistry, 2010, 20, 1103-1106.	6.7	57
75	Enhanced electrochemical performance of LiFePO4 cathode with in-situ chemical vapor deposition synthesized carbon nanotubes as conductor. Journal of Power Sources, 2012, 220, 264-268.	4.0	57
76	Galvanic Replacement Reactions of Activeâ€Metal Nanoparticles. Chemistry - A European Journal, 2012, 18, 4234-4241.	1.7	56
77	ZnFe₂O₄ Leaves Grown on TiO₂ Trees Enhance Photoelectrochemical Water Splitting. Small, 2016, 12, 3181-3188.	5.2	56
78	3D Aluminum Hybrid Plasmonic Nanostructures with Large Areas of Dense Hot Spots and Longâ€Term Stability. Advanced Functional Materials, 2017, 27, 1605703.	7.8	56
79	The formation of multiply twinning structure and photoluminescence of well-dispersed nanodiamonds produced by pulsed-laser irradiation. Diamond and Related Materials, 2008, 17, 142-146.	1.8	55
80	Scalable synthesis of hollow Cu₂O nanocubes with unique optical properties via a simple hydrolysis-based approach. Journal of Materials Chemistry A, 2013, 1, 302-307.	5.2	55
81	Catalytically active and chemically inert CdIn₂S₄ coating on a CdS photoanode for efficient and stable water splitting. Nanoscale, 2017, 9, 6296-6301.	2.8	55
82	Laser-Generated Grain Boundaries in Ruthenium Nanoparticles for Boosting Oxygen Evolution Reaction. ACS Catalysis, 2020, 10, 12575-12581.	5.5	55
83	A Hydrogenâ€Deficient Nickelâ€“Cobalt Double Hydroxide for Photocatalytic Overall Water Splitting. Angewandte Chemie - International Edition, 2020, 59, 11510-11515.	7.2	55
84	Thermogravimetric analysis and TEM characterization of the oxidation and defect sites of carbon nanotubes synthesized by CVD of methane. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 473, 355-359.	2.6	54
85	A One-compartment direct glucose alkaline fuel cell with methyl viologen as electron mediator. Applied Energy, 2013, 106, 176-183.	5.1	54
86	Single crystalline Cu₂ZnSnS₄ nanosheet arrays for efficient photochemical hydrogen generation. RSC Advances, 2015, 5, 2543-2549.	1.7	53
87	Molybdenum Disulfide Modified by Laser Irradiation for Catalyzing Hydrogen Evolution. ACS Sustainable Chemistry and Engineering, 2019, 7, 6999-7003.	3.2	53
88	Direct synthesis of SiC nanowires by multiple reaction VS growth. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 136, 72-77.	1.7	51
89	Synthesis and characterization of Ag nanoparticles assembled in ordered array pores of porous anodic alumina by chemical deposition. Materials Letters, 2007, 61, 3795-3797.	1.3	50
90	Effects of anodizing conditions on anodic alumina structure. Journal of Materials Science, 2007, 42, 3878-3882.	1.7	50

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91	Synthesis and Sensing Properties of ZnO/ZnS Nanocages. Nanoscale Research Letters, 2010, 5, 644-648.	3.1	48
92	Localized Defects on Copper Sulfide Surface for Enhanced Plasmon Resonance and Water Splitting. Small, 2017, 13, 1700867.	5.2	48
93	Tuning Spin State of Rockâ€Saltâ€Based Oxides by Manipulation of Crystallinity for Efficient Oxygen Electrocatalysis. Advanced Energy Materials, 2018, 8, 1703469.	10.2	48
94	Creating compressive stress at the NiOOH/NiO interface for water oxidation. Journal of Materials Chemistry A, 2020, 8, 10747-10754.	5.2	47
95	Porous Cobaltâ€“Nickel Hydroxide Nanosheets with Active Cobalt Ions for Overall Water Splitting. Small, 2019, 15, e1804832.	5.2	46
96	Strainâ€Activated Copper Catalyst for pHâ€Universal Hydrogen Evolution Reaction. Advanced Functional Materials, 2022, 32, .	7.8	46
97	NiO nanotubes assembled in pores of porous anodic alumina and their optical absorption properties. Chemical Physics Letters, 2008, 454, 75-79.	1.2	44
98	Laser Dispersion of Detonation Nanodiamonds. Angewandte Chemie - International Edition, 2011, 50, 4099-4102.	7.2	44
99	Comparison of ZnO and TiO2 nanowires for photoanode of dye-sensitized solar cells. Journal of Alloys and Compounds, 2013, 546, 307-313.	2.8	44
100	Identifying the descriptor governing NO oxidation on mullite Sm(Y, Tb, Gd,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td (Lu)Mn<sub>2 2016, 6, 3971-3975.	2.1	44
101	Hierarchical porous carbon with graphitic structure synthesized by a water soluble template method. Materials Letters, 2012, 87, 77-79.	1.3	43
102	Synthesis of carbon nanotubes and carbon onions by CVD using a Ni/Y catalyst supported on copper. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 475, 136-140.	2.6	42
103	Cuprous ions embedded in ceria lattice for selective and stable electrochemical reduction of carbon dioxide to ethylene. Journal of Materials Chemistry A, 2018, 6, 9373-9377.	5.2	42
104	Laser-induced oxygen vacancies in FeCo₂O₄ nanoparticles for boosting oxygen evolution and reduction. Chemical Communications, 2019, 55, 8579-8582.	2.2	41
105	Unveiling the critical role of the Mn dopant in a NiFe(OH)₂ catalyst for water oxidation. Journal of Materials Chemistry A, 2020, 8, 17471-17476.	5.2	41
106	In situ formation of Cuâ€“ZrO2 composites by chemical routes. Journal of Alloys and Compounds, 2006, 425, 390-394.	2.8	40
107	CdS Nanoflake Arrays for Highly Efficient Light Trapping. Advanced Materials, 2015, 27, 740-745.	11.1	40
108	Nanometre Ni and core/shell Ni/Au nanoparticles with controllable dimensions synthesized in reverse microemulsion. Journal of Alloys and Compounds, 2009, 475, 494-500.	2.8	39

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109	High-performance glucose fuel cell with bimetallic Niâ€“Co composite anchored on reduced graphene oxide as anode catalyst. Renewable Energy, 2020, 155, 1118-1126.	4.3	39
110	Arrays of Ultrathin CdS Nanoflakes with High-Energy Surface for Efficient Gas Detection. ACS Applied Materials & Interfaces, 2017, 9, 602-609.	4.0	38
111	Thermally driven mesoscale chemomechanical interplay in Li_{0.5}Ni_{0.6}Mn_{0.2}Co_{0.2}O₂ cathode materials. Journal of Materials Chemistry A, 2018, 6, 23055-23061.	5.2	38
112	Lattice-strained palladium nanoparticles as active catalysts for the oxygen reduction reaction. Chemical Communications, 2019, 55, 3121-3123.	2.2	38
113	Strawberry-like Co3O4-Ag bifunctional catalyst for overall water splitting. Applied Catalysis B: Environmental, 2021, 299, 120658.	10.8	38
114	A practical method for the production of hollow carbon onion particles. Journal of Alloys and Compounds, 2006, 425, 329-333.	2.8	37
115	Synthesis and growth mechanism of metal filled carbon nanostructures by CVD using Ni/Y catalyst supported on copper. Journal of Alloys and Compounds, 2008, 456, 290-296.	2.8	36
116	Improved visible photoluminescence from porous silicon with surface Siâ€“Ag bonds. Applied Physics Letters, 2005, 86, 171905.	1.5	35
117	Effects of alloying elements on creep of TiAl alloys with a fine lamellar structure. Acta Materialia, 2002, 50, 1307-1318.	3.8	34
118	Effect of Y2O3 on the mechanical properties of open cell aluminum foams. Materials Letters, 2006, 60, 1665-1668.	1.3	34
119	Highly Conductive CdS Inverse Opals for Photochemical Solar Cells. Advanced Functional Materials, 2014, 24, 707-715.	7.8	34
120	Bond-Energy-Integrated Descriptor for Oxygen Electrocatalysis of Transition Metal Oxides. Journal of Physical Chemistry Letters, 2018, 9, 3387-3391.	2.1	34
121	The influences of synthesis temperature and Ni catalyst on the growth of carbon nanotubes by chemical vapor deposition. Materials Letters, 2008, 62, 1472-1475.	1.3	33
122	An Ordered P2/P3 Composite Layered Oxide Cathode with Long Cycle Life in Sodium-Ion Batteries. , 2019, 1, 573-581.		33
123	Electroreduction of Carbon Dioxide in Metallic Nanopores through a Pincer Mechanism. Angewandte Chemie - International Edition, 2020, 59, 19297-19303.	7.2	33
124	Influence of surface Siâ€“Ag bonds on photoluminescence of porous silicon. Journal of Applied Physics, 2006, 100, 063512.	1.1	32
125	Intensive light emission from SiCN films by reactive RF magnetron sputtering. Materials Chemistry and Physics, 2007, 103, 456-460.	2.0	32
126	Fabrication and properties of carbon nanotubes reinforced Fe/hydroxyapatite composites by in situ chemical vapor deposition. Composites Part A: Applied Science and Manufacturing, 2008, 39, 1128-1132.	3.8	32

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127	Fabrication of aluminum matrix composites with enhanced mechanical properties reinforced by in situ generated MgAl2O4 whiskers. Composites Part A: Applied Science and Manufacturing, 2012, 43, 631-634.	3.8	31
128	A stable inverse opal structure of cadmium chalcogenide for efficient water splitting. Journal of Materials Chemistry A, 2015, 3, 18521-18527.	5.2	31
129	Valenceâ€State Effect of Iridium Dopant in NiFe(OH)₂ Catalyst for Hydrogen Evolution Reaction. Small, 2021, 17, e2100203.	5.2	31
130	Synthesis of carbon nanostructures with different morphologies by CVD of methane. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 460-461, 255-260.	2.6	30
131	The effect of post-annealing on the conversion efficiency of solar cells sensitized by CdS quantum dots. Semiconductor Science and Technology, 2010, 25, 045031.	1.0	30
132	P-type CoO nanowire arrays and their application in quantum dot-sensitized solar cells. RSC Advances, 2013, 3, 1217-1221.	1.7	30
133	Facile synthesis of three dimensional CdS nanoflowers with high photocatalytic performance. Journal of Alloys and Compounds, 2016, 656, 972-977.	2.8	30
134	Improving Interfacial Electron Transfer via Tuning Work Function of Electrodes for Electrocatalysis: From Theory to Experiment. Journal of Physical Chemistry C, 2019, 123, 28319-28326.	1.5	30
135	Sulfateâ€Enabled Nitrate Synthesis from Nitrogen Electrooxidation on a Rhodium Electrocatalyst. Angewandte Chemie - International Edition, 2022, 61, .	7.2	30
136	Low-temperature synthesis of ZnO/CdS hierarchical nanostructure for photovoltaic application. Nanoscale, 2012, 4, 5602.	2.8	29
137	Microstructure and properties of in situ generated MgAl2O4 spinel whisker reinforced aluminum matrix composites. Materials & Design, 2013, 46, 724-730.	5.1	29
138	Photochemical Synthesis of Ultrafine Cubic Boron Nitride Nanoparticles under Ambient Conditions. Angewandte Chemie - International Edition, 2015, 54, 7051-7054.	7.2	29
139	Face-centered-cubic Si nanocrystals prepared by microsecond pulsed laser ablation. Journal of Applied Physics, 2007, 102, .	1.1	28
140	Fabrication and growth mechanism of Ni-filled carbon nanotubes by the catalytic method. Journal of Alloys and Compounds, 2008, 465, 51-55.	2.8	28
141	On the origin of blue emission from ZnO quantum dots synthesized by a solâ€“gel route. Semiconductor Science and Technology, 2012, 27, 065020.	1.0	28
142	Surface transformation by a â€œcocktailâ€•solvent enables stable cathode materials for sodium ion batteries. Journal of Materials Chemistry A, 2018, 6, 2758-2766.	5.2	28
143	Selective nitrogen doping of graphene oxide by laser irradiation for enhanced hydrogen evolution activity. Chemical Communications, 2018, 54, 13726-13729.	2.2	28
144	Conductive Boron Nitride as Promising Catalyst Support for the Oxygen Evolution Reaction. Advanced Energy Materials, 2020, 10, 1902521.	10.2	28

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145	Fabrication of carbon-coated cobalt nanoparticles by the catalytic method. Journal of Alloys and Compounds, 2008, 458, 130-133.	2.8	27
146	ZnO hierarchical nanostructures and application on high-efficiency dye-sensitized solar cells. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 166, 196-202.	1.7	27
147	Microstructural characterization of creep cavitation in a fully-lamellar TiAl alloy. Intermetallics, 2001, 9, 137-146.	1.8	24
148	Spongy structure of CdS nanocrystals decorated with dye molecules for semiconductor sensitized solar cells. Journal of Materials Chemistry, 2011, 21, 2883.	6.7	24
149	Ultrafine SmMn2O5-Î´ electrocatalysts with modest oxygen deficiency for highly-efficient pH-neutral magnesium-air batteries. Journal of Power Sources, 2020, 449, 227482.	4.0	24
150	Creep induced Î±2â†'Î²2phase transformation in a fully-lamellar TiAl alloy. Scripta Materialia, 2000, 43, 597-602.	2.6	23
151	Reinforcing copper matrix composites through molecular-level mixing of functionalized nanodiamond by co-deposition route. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 490, 293-299.	2.6	23
152	One-step synthesis of MgO hollow nanospheres with blue emission. Nanotechnology, 2010, 21, 295604.	1.3	23
153	Improve photo-electron conversion efficiency of ZnO/CdS coaxial nanorods by p-type CdTe coating. Nanotechnology, 2012, 23, 485401.	1.3	23
154	Laser synthesis of clean mesocrystal of cupric oxide for efficient gas sensing. Journal of Materials Chemistry A, 2016, 4, 2699-2704.	5.2	23
155	Porous Copper Microspheres for Selective Production of Multicarbon Fuels via CO₂ Electroreduction. Small, 2019, 15, e1902582.	5.2	23
156	Surface Valence State Effect of MoO₂₊_x on Electrochemical Nitrogen Reduction. Advanced Science, 2022, 9, e2104857.	5.6	23
157	The evolution of microstructure and photoluminescence of SiCN films with annealing temperature. Journal of Applied Physics, 2006, 99, 093503.	1.1	22
158	Amorphous carbon nanotubes fabricated by low-temperature chemical vapor deposition. Carbon, 2006, 44, 1859-1862.	5.4	22
159	Single-crystal ZnO flocky sphere formed by three-dimensional oriented attachment of nanoparticles. Journal of Physics and Chemistry of Solids, 2008, 69, 880-883.	1.9	22
160	Boosting reversible oxygen electrocatalysis with enhanced interfacial pyridinic-Nâ€“Co bonding in cobalt oxide/mesoporous N-doped graphene hybrids. Nanoscale, 2018, 10, 22140-22147.	2.8	22
161	Water-Processable P2-Na_{0.67}Ni_{0.22}Cu_{0.11}Mn_{0.56}Ti_{0.11}O₂ Cathode Material for Sodium Ion Batteries. Journal of the Electrochemical Society, 2019, 166, A251-A257.	3.9	22
162	Single-Crystal ZnO Cup Based on Hydrothermal Decomposition Route. Journal of Physical Chemistry C, 2007, 111, 3863-3867.	1.5	21

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163	Controlling surface states and photoluminescence of porous silicon by low-energy-ion irradiation. Applied Surface Science, 2008, 254, 2479-2482.	3.1	21
164	Improving charge separation of solar cells by the co-sensitization of CdS quantum dots and dye. Semiconductor Science and Technology, 2010, 25, 095014.	1.0	21
165	Low-temperature synthesis of aluminum borate nanowhiskers on the surface of aluminum powder promoted by ball-milling pretreatment. Powder Technology, 2011, 212, 310-315.	2.1	21
166	Ultrafine Ag Nanoparticles as Active Catalyst for Electrocatalytic Hydrogen Production. ChemCatChem, 2019, 11, 5976-5981.	1.8	21
167	Preparation and photocatalytic properties of mixed-phase titania nanospheres by laser ablation. Materials Letters, 2009, 63, 2384-2386.	1.3	20
168	Double Open-Circuit Voltage of Three-Dimensional ZnO/CdTe Solar Cells by a Balancing Depletion Layer. ACS Applied Materials & Interfaces, 2014, 6, 14718-14723.	4.0	20
169	Chlorella-derived porous heteroatom-doped carbons as robust catalysts for oxygen reduction reaction in direct glucose alkaline fuel cell. International Journal of Hydrogen Energy, 2019, 44, 2823-2831.	3.8	20
170	Formation and luminescent properties of face-centered-cubic Si nanocrystals in silica matrix by magnetron sputtering with substrate bias. Applied Physics Letters, 2007, 90, 241910.	1.5	19
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