Dan Liu

List of Publications by Year
in descending order

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207 papers	8,546 citations	38738 50 h-index	60616 81 g-index
211 all docs	211 docs citations	211 times ranked	11385 citing authors

#	Article	IF	Citations
1	Electrochemical Reduction of CO₂ at Copper Nanofoams. ACS Catalysis, 2014, 4, 3091-3095.	11.2	480
2	Enhanced visible light photocatalytic performance of g-C3N4 photocatalysts co-doped with iron and phosphorus. Applied Surface Science, 2014, 311, 164-171.	6.1	376
3	Advanced Separators for Lithiumâ€Ion and Lithiumâ€“Sulfur Batteries: A Review of Recent Progress. ChemSusChem, 2016, 9, 3023-3039.	6.8	299
4	Novel BrÃ¸nsted acidic ionic liquid as efficient and reusable catalyst system for esterification. Catalysis Communications, 2004, 5, 473-477.	3.3	259
5	A room-temperature liquid metal-based self-healing anode for lithium-ion batteries with an ultra-long cycle life. Energy and Environmental Science, 2017, 10, 1854-1861.	30.8	219
6	A simple and efficient method to prepare a phosphorus modified g-C₃N₄ visible light photocatalyst. RSC Advances, 2014, 4, 21657-21663.	3.6	194
7	Size Dependence of Vapor Phase Hydrodeoxygenation of m-Cresol on Ni/SiO₂ Catalysts. ACS Catalysis, 2018, 8, 1672-1682.	11.2	171
8	Confined phosphorus in carbon nanotube-backboned mesoporous carbon as superior anode material for sodium/potassium-ion batteries. Nano Energy, 2018, 52, 1-10.	16.0	148
9	The properties and photocatalytic performance comparison of Fe3+-doped g-C3N4 and Fe2O3/g-C3N4 composite catalysts. RSC Advances, 2014, 4, 24863.	3.6	133
10	Conjugated Small Molecule for Efficient Hole Transport in Highâ€Performance pâ€iâ€n Type Perovskite Solar Cells. Advanced Functional Materials, 2017, 27, 1702613.	14.9	131
11	Ionic Additive Engineering Toward Highâ€Efficiency Perovskite Solar Cells with Reduced Grain Boundaries and Trap Density. Advanced Functional Materials, 2018, 28, 1801985.	14.9	130
12	Task-specific ionic liquids as corrosion inhibitors on carbon steel in 0.5â€‰M HCl solution: An experimental and theoretical study. Corrosion Science, 2019, 153, 301-313.	6.6	123
13	Engineering Oxygen Vacancies into LaCoO₃ Perovskite for Efficient Electrocatalytic Oxygen Evolution. ACS Sustainable Chemistry and Engineering, 2019, 7, 2906-2910.	6.7	110
14	Subcritical ethanol extraction of flavonoids from Moringa oleifera leaf and evaluation of antioxidant activity. Food Chemistry, 2017, 218, 152-158.	8.2	107
15	Chemical Prelithiation of Negative Electrodes in Ambient Air for Advanced Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 8699-8703.	8.0	100
16	Aggregation of non-fullerene acceptors in organic solar cells. Journal of Materials Chemistry A, 2020, 8, 15607-15619.	10.3	99
17	Self-assembly of polyhedral oligosilsesquioxane (POSS) into hierarchically ordered mesoporous carbons with uniform microporosity and nitrogen-doping for high performance supercapacitors. Nano Energy, 2016, 22, 255-268.	16.0	97
18	One-pot aqueous route to synthesize highly ordered cubic and hexagonal mesoporous carbons from resorcinol and hexamine. Carbon, 2012, 50, 476-487.	10.3	96

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19	Adsorption structures of heterocyclic nitrogen compounds over Cu(I)Y zeolite: A first principle study on mechanism of the denitrogenation and the effect of nitrogen compounds on adsorptive desulfurization. Journal of Molecular Catalysis A, 2008, 291, 17-21.	4.8	94
20	Hollow Î²-Bi2O3@CeO2 heterostructure microsphere with controllable crystal phase for efficient photocatalysis. Chemical Engineering Journal, 2020, 387, 124100.	12.7	92
21	Deep oxidative desulfurization with task-specific ionic liquids: An experimental and computational study. Journal of Molecular Catalysis A, 2010, 331, 64-70.	4.8	86
22	Process intensification of transesterification for biodiesel production from palm oil: Microwave irradiation on transesterification reaction catalyzed by acidic imidazolium ionic liquids. Energy, 2018, 144, 957-967.	8.8	84
23	3D Coral-like LLZO/PVDF Composite Electrolytes with Enhanced Ionic Conductivity and Mechanical Flexibility for Solid-State Lithium Batteries. ACS Applied Materials & Interfaces, 2020, 12, 52652-52659.	8.0	81
24	Deep Desulfurization of Diesel Fuel by Extraction with Task-Specific Ionic Liquids. Petroleum Science and Technology, 2008, 26, 973-982.	1.5	80
25	Highly efficient synthesis of ordered nitrogen-doped mesoporous carbons with tunable properties and its application in high performance supercapacitors. Journal of Power Sources, 2016, 321, 143-154.	7.8	77
26	Chlorinated Fullerene Dimers for Interfacial Engineering Toward Stable Planar Perovskite Solar Cells with 22.3% Efficiency. Advanced Energy Materials, 2020, 10, 2000615.	19.5	76
27	Simple hydrothermal synthesis of ordered mesoporous carbons from resorcinol and hexamine. Carbon, 2011, 49, 2113-2119.	10.3	73
28	A novel alternate feeding mode for semi-continuous anaerobic co-digestion of food waste with chicken manure. Bioresource Technology, 2014, 164, 309-314.	9.6	73
29	Investigation of the Liâ€“S Battery Mechanism by Real-Time Monitoring of the Changes of Sulfur and Polysulfide Species during the Discharge and Charge. ACS Applied Materials & Interfaces, 2017, 9, 4326-4332.	8.0	70
30	Air-stable red phosphorus anode for potassium/sodium-ion batteries enabled through dual-protection design. Nano Energy, 2020, 69, 104451.	16.0	70
31	Environmentally durable superhydrophobic surfaces with robust photocatalytic self-cleaning and self-healing properties prepared via versatile film deposition methods. Journal of Colloid and Interface Science, 2018, 527, 107-116.	9.4	69
32	Dual-doped mesoporous carbon synthesized by a novel nanocasting method with superior catalytic activity for oxygen reduction. Nano Energy, 2016, 26, 131-138.	16.0	68
33	Enhanced supercapacitive performance on TiO2@C coaxial nano-rod array through a bio-inspired approach. Nano Energy, 2015, 15, 75-82.	16.0	64
34	Self-Healing Liquid Metal and Si Composite as a High-Performance Anode for Lithium-Ion Batteries. ACS Applied Energy Materials, 2018, 1, 1395-1399.	5.1	64
35	Dual carbon-protected metal sulfides and their application to sodium-ion battery anodes. Journal of Materials Chemistry A, 2018, 6, 13294-13301.	10.3	63
36	Corrosion inhibition effects of a novel ionic liquid with and without potassium iodide for carbon steel in 0.5â€¯M HCl solution: An experimental study and theoretical calculation. Journal of Molecular Liquids, 2019, 275, 729-740.	4.9	63

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37	A Convenient Method to Prepare Novel Rare Earth Metal Ceâ€Doped Carbon Nitride with Enhanced Photocatalytic Activity Under Visible Light. Bulletin of the Korean Chemical Society, 2015, 36, 17-23.	1.9	62
38	Cobalt oxide/copper bismuth oxide/samarium vanadate (Co3O4/CuBi2O4/SmVO4) dual Z-scheme heterostructured photocatalyst with high charge-transfer efficiency: Enhanced carbamazepine degradation under visible light irradiation. Journal of Colloid and Interface Science, 2021, 603, 666-684.	9.4	61
39	Steaming and washing effect of P/HZSM-5 in catalytic cracking of naphtha. Catalysis Today, 2011, 164, 154-157.	4.4	60
40	Photoinduced in Situ Deposition of Uniform and Well-Dispersed PtO₂ Nanoparticles on ZnO Nanorods for Efficient Catalytic Reduction of 4-Nitrophenol. ACS Applied Materials & Interfaces, 2018, 10, 23154-23162.	8.0	60
41	High performance lithium-ion and lithiumâ€“sulfur batteries using prelithiated phosphorus/carbon composite anode. Energy Storage Materials, 2020, 24, 147-152.	18.0	60
42	The influence of preparation method on the photocatalytic performance of g-C3N4/WO3 composite photocatalyst. Ceramics International, 2014, 40, 11963-11969.	4.8	58
43	Trace carbon-hybridized ZnS/ZnO hollow nanospheres with multi-enhanced visible-light photocatalytic performance. Journal of Alloys and Compounds, 2019, 775, 481-489.	5.5	58
44	Stability Of Nonâ€Fullerene Electron Acceptors and Their Photovoltaic Devices. Advanced Functional Materials, 2021, 31, 2104552.	14.9	58
45	Competition and Cooperation of Hydrogenation and Deoxygenation Reactions during Hydrodeoxygenation of Phenol on Pt(111). Journal of Physical Chemistry C, 2017, 121, 12249-12260.	3.1	57
46	Retarding the Crystallization of a Nonfullerene Electron Acceptor for Highâ€Performance Polymer Solar Cells. Advanced Functional Materials, 2019, 29, 1807662.	14.9	57
47	Influences of Non-fullerene Acceptor Fluorination on Three-Dimensional Morphology and Photovoltaic Properties of Organic Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 26194-26203.	8.0	57
48	Coldâ€Aging and Solvent Vapor Mediated Aggregation Control toward 18% Efficiency Binary Organic Solar Cells. Advanced Energy Materials, 2021, 11, 2102000.	19.5	57
49	Synthesis and catalytic properties of mesoporous phosphotungstic acid/SiO2 in a self-generated acidic environment by evaporation-induced self-assembly. Materials Research Bulletin, 2007, 42, 1905-1913.	5.2	53
50	Contrasting Effects of Energy Transfer in Determining Efficiency Improvements in Ternary Polymer Solar Cells. Advanced Functional Materials, 2018, 28, 1704212.	14.9	53
51	13.9% Efficiency Ternary Nonfullerene Organic Solar Cells Featuring Low-Structural Order. ACS Energy Letters, 2019, 4, 2378-2385.	17.4	51
52	Phosphorus/Carbon Composite Anode for Potassium-Ion Batteries: Insights into High Initial Coulombic Efficiency and Superior Cyclic Performance. ACS Sustainable Chemistry and Engineering, 2018, 6, 16308-16314.	6.7	50
53	Spectral Tuning of Efficient CsPbBr_xCl_{3â€“x} Blue Light-Emitting Diodes via Halogen Exchange Triggered by Benzenesulfonates. Chemistry of Materials, 2020, 32, 3211-3218.	6.7	50
54	Alkyl Chain Tuning of Non-fullerene Electron Acceptors toward 18.2% Efficiency Binary Organic Solar Cells. Chemistry of Materials, 2021, 33, 8854-8862.	6.7	50

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55	Correlating Threeâ€dimensional Morphology With Function in PBDBâ€T:ITâ€M Nonâ€Fullerene Organic Solar Cells. Solar Rrl, 2018, 2, 1800114.	5.8	49
56	Nitrogen and sulfur co-doped carbon with three-dimensional ordered macroporosity: An efficient metal-free oxygen reduction catalyst derived from ionic liquid. Journal of Power Sources, 2016, 323, 90-96.	7.8	47
57	A synergistic modification of polypropylene separator toward stable lithiumâ€“sulfur battery. Journal of Membrane Science, 2020, 597, 117646.	8.2	47
58	Evaporation-induced formation of hollow bismuth@N-doped carbon nanorods for enhanced electrochemical potassium storage. Applied Surface Science, 2020, 514, 145947.	6.1	47
59	Fluorinated solid additives enable high efficiency non-fullerene organic solar cells. Journal of Materials Chemistry A, 2020, 8, 4230-4238.	10.3	47
60	A single-step fabrication of CoTe2 nanofilm electrode toward efficient overall water splitting. Electrochimica Acta, 2019, 307, 451-458.	5.2	46
61	Reduced graphene-oxide/highly ordered mesoporous SiOx hybrid material as an anode material for lithium ion batteries. Electrochimica Acta, 2018, 273, 26-33.	5.2	45
62	Simultaneously Enhanced Efficiency and Operational Stability of Nonfullerene Organic Solar Cells via Solidâ€Additiveâ€Mediated Aggregation Control. Small, 2021, 17, e2102558.	10.0	45
63	One-step synthesis of flowerlike C/Fe2O3 nanosheet assembly with superior adsorption capacity and visible light photocatalytic performance for dye removal. Carbon, 2017, 116, 59-67.	10.3	43
64	Plasmonic Ag3PO4/EG photoanode for visible light-driven photoelectrocatalytic degradation of diuretic drug. Chemical Engineering Journal, 2020, 393, 124804.	12.7	43
65	Tuning of the Interconnecting Layer for Monolithic Perovskite/Organic Tandem Solar Cells with Record Efficiency Exceeding 21%. Nano Letters, 2021, 21, 7845-7854.	9.1	40
66	Towards understanding the microstructures and hydrocracking performance of sulfided Niâ€“W catalysts: Effect of metal loading. Fuel Processing Technology, 2011, 92, 2320-2327.	7.2	39
67	Towards understanding corrosion inhibition of sulfonate/carboxylate functionalized ionic liquids: An experimental and theoretical study. Journal of Colloid and Interface Science, 2020, 579, 315-329.	9.4	39
68	Nitrogen-doped carbon dots as high-effective inhibitors for carbon steel in acidic medium. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 616, 126280.	4.7	39
69	Multi-elemental doped g-C3N4 with enhanced visible light photocatalytic Activity: Insight into naproxen Degradation, Kinetics, effect of Electrolytes, and mechanism. Separation and Purification Technology, 2022, 282, 120089.	7.9	39
70	Ligandâ€Exchange of Lowâ€Temperature Synthesized CsPbBr₃ Perovskite toward Highâ€Efficiency Lightâ€Emitting Diodes. Small Methods, 2019, 3, 1800489.	8.6	38
71	Modulation of J-Aggregation of Nonfullerene Acceptors toward Near-Infrared Absorption and Enhanced Efficiency. Macromolecules, 2020, 53, 3747-3755.	4.8	38
72	Synthesis of Bi5O7I-MoO3 photocatalyst via simultaneous calcination of BiOI and MoS2 for visible light degradation of ibuprofen. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 612, 126004.	4.7	38

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73	Ordered thiol-functionalized mesoporous silica with macrostructure by true liquid crystal templating route. Microporous and Mesoporous Materials, 2009, 117, 67-74.	4.4	37
74	Inter-conversion of light olefins on ZSM-5 in catalytic naphtha cracking condition. Catalysis Today, 2014, 226, 52-66.	4.4	37
75	Non-fullerene acceptor fibrils enable efficient ternary organic solar cells with 16.6% efficiency. Science China Chemistry, 2020, 63, 1461-1468.	8.2	37
76	Synthesis and properties of visible light responsive g-C₃N₄/Bi₂O₂CO₃ layered heterojunction nanocomposites. RSC Advances, 2015, 5, 42736-42743.	3.6	36
77	Pt/ZnO@C Nanocable with Dual-Enhanced Photocatalytic Performance and Superior Photostability. Langmuir, 2017, 33, 4452-4460.	3.5	35
78	A polar-hydrophobic ionic liquid induces grain growth and stabilization in halide perovskites. Chemical Communications, 2019, 55, 11059-11062.	4.1	35
79	Green BrÃ¶nsted acid ionic liquids as novel corrosion inhibitors for carbon steel in acidic medium. Scientific Reports, 2017, 7, 8773.	3.3	34
80	SnO₂ Functionalized Polyethylene Separator with Enhanced Thermal Stability for High Performance Lithium Ion Battery. ChemistrySelect, 2018, 3, 911-916.	1.5	34
81	Stable Lead-Free Silver Bismuth Iodide Perovskite Quantum Dots for UV Photodetection. ACS Applied Nano Materials, 2020, 3, 9141-9150.	5.0	34
82	The impacts of PbI₂ purity on the morphology and device performance of one-step spray-coated planar heterojunction perovskite solar cells. Sustainable Energy and Fuels, 2018, 2, 436-443.	4.9	34
83	Protic/aprotic ionic liquids for effective CO2 separation using supported ionic liquid membrane. Chemosphere, 2021, 267, 128894.	8.2	33
84	Asymmetric and Halogenated Fusedâ€Ring Electron Acceptor for Efficient Organic Solar Cells. Advanced Functional Materials, 2021, 31, 2102189.	14.9	33
85	Synthesis of hierarchical fiberlike ordered mesoporous carbons with excellent electrochemical capacitance performance by a strongly acidic aqueous cooperative assembly route. Journal of Materials Chemistry A, 2013, 1, 15447.	10.3	32
86	Regulating the morphology of fluorinated non-fullerene acceptor and polymer donor via binary solvent mixture for high efficiency polymer solar cells. Science China Chemistry, 2019, 62, 1221-1229.	8.2	32
87	Synthesis and Characterization of Taskâ€Specific Ionic Liquids Possessing Two BrÃ¶nsted Acid Sites. Synthetic Communications, 2007, 37, 759-765.	2.1	31
88	Magnetically recoverable hierarchical Pt/Fe2O3 microflower: Superior catalytic activity and stability for reduction of 4-nitrophenol. Catalysis Communications, 2017, 100, 214-218.	3.3	31
89	Fabrication of a La-doped BiVO4@CN step-scheme heterojunction for effective tetracycline degradation with dual-enhanced molecular oxygen activation. Separation and Purification Technology, 2021, 277, 119224.	7.9	31
90	Enhancement of Electrochemical Hydrogen Insertion in N-Doped Highly Ordered Mesoporous Carbon. Journal of Physical Chemistry C, 2014, 118, 2370-2374.	3.1	30

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91	Deep removal of sulfur from real diesel by catalytic oxidation with halogen-free ionic liquid. Korean Journal of Chemical Engineering, 2012, 29, 49-53.	2.7	29
92	Activating the hydrogen evolution activity of Pt electrode via synergistic interaction with NiS2. Journal of Colloid and Interface Science, 2021, 582, 591-597.	9.4	29
93	Inhibition effect of monomeric/polymerized imidazole zwitterions as corrosion inhibitors for carbon steel in acid medium. Journal of Molecular Liquids, 2020, 312, 113436.	4.9	29
94	Synthesis of EVA-g-MAH and its compatibilization effect to PA11/PVC blends. Journal of Materials Science, 2007, 42, 3398.	3.7	28
95	Cell adhesion on nanopatterned fibronectin substrates. Soft Matter, 2010, 6, 5408.	2.7	28
96	Controlled carbon coating of Fe 2 O 3 nanotube with tannic acid: A bio-inspired approach toward high performance lithium-ion battery anode. Journal of Alloys and Compounds, 2017, 719, 347-352.	5.5	28
97	TDI/TiO₂ Hybrid Networks for Superhydrophobic Coatings with Superior UV Durability and Cation Adsorption Functionality. ACS Applied Materials & Interfaces, 2019, 11, 7488-7497.	8.0	27
98	Multifunctional Polypropylene Separator via Cooperative Modification and Its Application in the Lithiumâ€“Sulfur Battery. Langmuir, 2020, 36, 11147-11153.	3.5	27
99	Dopant-free polymeric hole transport materials for efficient CsPbI₂Br perovskite cells with a fill factor exceeding 84%. Journal of Materials Chemistry C, 2020, 8, 8507-8514.	5.5	27
100	One-Pot Synthesis of 3,4-Dihydropyrimidin-2(1H)-ones Catalyzed by Acidic Ionic Liquids Under Solvent-Free Conditions. Synthetic Communications, 2009, 39, 3436-3443.	2.1	26
101	Synthesis, Crystal Structure, and Electrochemical Properties of Alluaudite Na_{1.702}Fe₃(PO₄)₃ as a Sodium-Ion Battery Cathode. ACS Sustainable Chemistry and Engineering, 2017, 5, 5766-5771.	6.7	26
102	Oxidative Desulfurization of Diesel Oil Using Mesoporous Phosphotungstic Acid/SiO₂ as Catalyst. Journal of the Chinese Chemical Society, 2007, 54, 911-916.	1.4	25
103	Effect of precursor and precipitant concentrations on the catalytic properties of CuO/ZnO/CeO2-ZrO2 for methanol steam reforming. Journal of Fuel Chemistry and Technology, 2015, 43, 1366-1374.	2.0	25
104	Evolution of molecular aggregation in bar-coated non-fullerene organic solar cells. Materials Chemistry Frontiers, 2019, 3, 1062-1070.	5.9	25
105	Insight into l-cysteine-assisted growth of Cu2S nanoparticles on exfoliated MoS2 nanosheets for effective photoreduction removal of Cr(VI). Applied Surface Science, 2020, 518, 146191.	6.1	25
106	Octa(aminophenyl)silsesquioxane derived nitrogen-doped well-defined nanoporous carbon materials: Synthesis and application for supercapacitors. Electrochimica Acta, 2016, 194, 143-150.	5.2	23
107	Synthesis, performance and action mechanism of carbon black/Ag3PO4 photocatalysts. Ceramics International, 2018, 44, 13712-13719.	4.8	22
108	Hydrothermal carbon-supported Ni catalysts for selective hydrogenation of 5-hydroxymethylfurfural toward tunable products. Journal of Materials Science, 2020, 55, 14179-14196.	3.7	22

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109	Effective promotion of spacial charge separation of dual S-scheme (1D/2D/0D) WO3@ZnIn2S4/Bi2S3 heterojunctions for enhanced photocatalytic performance under visible light. Separation and Purification Technology, 2022, 284, 120207.	7.9	22
110	Rational design of efficient visible-light photocatalysts (1D@2D/0D) ZnO@Ni-doped BiOBr/Bi heterojunction: Considerations on hierarchical structures, doping and SPR effect. Journal of Materials Science and Technology, 2022, 125, 38-50.	10.7	22
111	Hydrogen Ion Supercapacitor: A New Hybrid Configuration of Highly Dispersed MnO₂ in Porous Carbon Coupled with Nitrogen-Doped Highly Ordered Mesoporous Carbon with Enhanced H-Insertion. ACS Applied Materials & Interfaces, 2014, 6, 22687-22694.	8.0	21
112	Self-assembly synthesis of a unique stable cocoon-like hematite @C nanoparticle and its application in lithium ion batteries. Journal of Colloid and Interface Science, 2017, 495, 157-167.	9.4	21
113	Molecular Ordering and Performance of Ternary Nonfullerene Organic Solar Cells via Bar-Coating in Air with an Efficiency over 13%. ACS Applied Materials & Interfaces, 2019, 11, 35827-35834.	8.0	21
114	Improved Performance of Perovskite Light-Emitting Diodes by Dual Passivation with an Ionic Additive. ACS Applied Energy Materials, 2019, 2, 3336-3342.	5.1	21
115	Lithium ion supercapacitor composed by Si-based anode and hierarchal porous carbon cathode with super long cycle life. Applied Surface Science, 2019, 463, 879-888.	6.1	21
116	Insights into catalytic roles of noble-metal-free catalysts Co_xS_y for reduction of 4-nitrophenol. Physical Chemistry Chemical Physics, 2018, 20, 27730-27734.	2.8	20
117	Synthesis of MOF-74-derived carbon/ZnCo2O4 nanoparticles@CNT-nest hybrid material and its application in lithium ion batteries. Journal of Applied Electrochemistry, 2019, 49, 1103-1112.	2.9	20
118	Enhancing the efficiency of PTB7-Th:COi8DFIC-based ternary solar cells with versatile third components. Applied Physics Reviews, 2019, 6, .	11.3	20
119	Self-assembled N-doped carbon with a tube-in-tube nanostructure for lithium-sulfur batteries. Journal of Colloid and Interface Science, 2020, 559, 244-253.	9.4	20
120	Non-fullerene acceptor pre-aggregates enable high efficiency pseudo-bulk heterojunction organic solar cells. Science China Chemistry, 2022, 65, 373-381.	8.2	20
121	Clean Synthesis of Adipic Acid by Direct Oxidation of Cyclohexene with H₂O₂ catalysed by Na₂WO₄.2H₂O and Acidic Ionic Liquids. Journal of Chemical Research, 2005, 2005, 520-522.	1.3	19
122	New Simple Synthesis Route for Decatungstate Hybrids: Novel Thermo-Regulated Phase Transfer Catalysts for Selective Oxidation of Alcohols. Catalysis Letters, 2012, 142, 1330-1335.	2.6	19
123	Sodium bromide additive improved film morphology and performance in perovskite light-emitting diodes. Applied Physics Letters, 2017, 111, .	3.3	19
124	Electrochemical Hydrogen Storage in Facile Synthesized Co@N-Doped Carbon Nanoparticle Composites. ACS Applied Materials & Interfaces, 2017, 9, 41332-41338.	8.0	19
125	Versatile Device Architectures for High-Performing Light-Soaking-Free Inverted Polymer Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 32678-32687.	8.0	18
126	Oxidation of dibenzothiophene catalyzed by Na2WO4 in a halogen-free ionic liquid. Reaction Kinetics, Mechanisms and Catalysis, 2011, 104, 111-123.	1.7	17

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127	Chain mobility and film softness mediated protein antifouling at the solidâ€“liquid interface. Journal of Materials Chemistry B, 2016, 4, 6134-6142.	5.8	17
128	Fe and N Coâ€doped Carbons Derived from an Ionic Liquid as Active Bifunctional Oxygen Catalysts. ChemElectroChem, 2017, 4, 1148-1153.	3.4	17
129	TiO₂-nanosheet-assembled microspheres as Pd-catalyst support for highly-stable low-temperature CO oxidation. New Journal of Chemistry, 2018, 42, 18066-18076.	2.8	17
130	Electrochemical hydrogen storage in a nitrogen-doped uniformed microporous carbon. International Journal of Hydrogen Energy, 2018, 43, 14096-14102.	7.1	17
131	Contrasting Effects of Organic Chloride Additives on Performance of Direct and Inverted Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 37833-37841.	8.0	17
132	Insights into the Synergistic Effect in Pd Immobilized to MOF-Derived Co-CoO_x@N-Doped Carbon for Efficient Selective Hydrogenolysis of 5-Hydroxylmethylfurfural. Industrial & Engineering Chemistry Research, 2020, 59, 6532-6542.	3.7	17
133	Hotâ€Casting Boosts Efficiency of Halogenâ€Free Solvent Processed Nonâ€Fullerene Organic Solar Cells. Advanced Functional Materials, 2021, 31, 2105794.	14.9	17
134	An alternative approach to the modification of talc for the fabrication of polypropylene/talc composites. Journal of Applied Polymer Science, 2007, 106, 386-393.	2.6	16
135	Highly ordered 3D macroporous scaffold supported Pt/C oxygen electrodes with superior gas-proton transportation properties and activities for fuel cells. Journal of Materials Chemistry A, 2015, 3, 15001-15007.	10.3	16
136	Electrochemical hydrogen storage in iron nitrogen dual-doped ordered mesoporous carbon. International Journal of Hydrogen Energy, 2019, 44, 7326-7336.	7.1	16
137	Ag-induced anatase-rutile TiO2â^'x heterojunction facilitating the photogenerated carrier separation in visible-light irradiation. Journal of Alloys and Compounds, 2022, 909, 164815.	5.5	16
138	S-Scheme Bi₂S₃/CdS Nanorod Heterojunction Photocatalysts with Improved Carrier Separation and Redox Capacity for Pollutant Removal. ACS Applied Nano Materials, 2022, 5, 5448-5458.	5.0	16
139	Oxidative Aromatization of Hantzsch 1,4-Dihydropyridines Catalyzed by Ferric Perchlorate in Ionic Liquids with Air. Synthetic Communications, 2010, 40, 1004-1008.	2.1	15
140	Systematic and rapid screening for the redox shuttle inhibitors in lithium-sulfur batteries. Electrochimica Acta, 2018, 282, 687-693.	5.2	15
141	Cyclotrimerization of an aliphatic aldehyde catalyzed by acidic ionic liquid. Reaction Kinetics and Catalysis Letters, 2007, 90, 35-43.	0.6	14
142	Isobaric vapor-liquid equilibrium for binary system of methyl caprylate+methyl caprate at 2, 6 and 10kPa. Journal of Chemical Thermodynamics, 2017, 106, 145-152.	2.0	14
143	Mesoporous silica hybrids as an antireflective coating to enhance light harvesting and achieve over 16% efficiency of organic solar cells. Journal of Materials Chemistry C, 2019, 7, 14962-14969.	5.5	14
144	Improve Electrochemical Hydrogen Insertion on the Carbon Materials Loaded with Pt nano-particles through H spillover. Electrochimica Acta, 2015, 174, 400-405.	5.2	13

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145	Thickness-dependent glass transition temperature and charge mobility in cross-linked polyfluorene thin films. Physical Review E, 2016, 94, 052503.	2.1	13
146	Morphology-tunable & template-free fabrication of MoS2 nanostructures with enhanced photoreduction activities for Cr(VI). Journal of Photochemistry and Photobiology A: Chemistry, 2019, 373, 176-181.	3.9	13
147	One-step hydrothermal fabrication of SrMoO₄/MoS₂ composites with strong interfacial contacts for efficient photoreduction removal of Cr(<scp>vi</scp>). CrystEngComm, 2020, 22, 4489-4499.	2.6	13
148	Preparation and structural characterization of nanocrystalline poly(vinyl chloride). Journal of Applied Polymer Science, 2004, 91, 563-569.	2.6	12
149	Preparation and properties of compatibilized PVC/SMA-g-PA6 blends. Journal of Applied Polymer Science, 2004, 94, 432-439.	2.6	12
150	Highly Efficient Ni-Fe Based Oxygen Evolution Catalyst Prepared by A Novel Pulse Electrochemical Approach. Electrochimica Acta, 2017, 247, 722-729.	5.2	12
151	Thiophene Terminated Fullerene Derivatives for Interfacial Modification toward High Efficiency MAPbI₃ Perovskite Solar Cells. ACS Applied Energy Materials, 2020, 3, 9824-9832.	5.1	12
152	Recent progress in electrode materials for aqueous sodium and potassium ion batteries. Materials Chemistry Frontiers, 2021, 5, 7384-7402.	5.9	12
153	Photoconductive Charge Transfer Complexes as Charge Transport Layers for High Performance Inverted Perovskite Solar Cells. Advanced Functional Materials, 2022, 32, .	14.9	12
154	A nanoparticle assembly method for the production of crystalline ordered mesoporous titanium oxide/carbon composites. Microporous and Mesoporous Materials, 2011, 139, 87-93.	4.4	11
155	BrÃ¶nsted acid ionic liquid: Electrochemical passivation behavior to mild steel. Journal of Molecular Liquids, 2016, 220, 63-70.	4.9	11
156	Diethylenediamine-assisted template-free synthesis of a hierarchical TiO2 sphere-in-sphere with enhanced photocatalytic performance. Dalton Transactions, 2018, 47, 16502-16508.	3.3	10
157	One-step hydrothermal fabrication of erythrocyte-like ZnS/ZnO composite with superior visible light photocatalytic performance. Materials Letters, 2018, 228, 305-308.	2.6	10
158	Bilayer broadband antireflective coating to achieve planar heterojunction perovskite solar cells with 23.9% efficiency. Science China Materials, 2021, 64, 789-797.	6.3	10
159	Heatingâ€induced aggregation control for efficient sequentialâ€cast organic solar cells. Aggregate, 2022, 3, e104.	9.9	10
160	Construction of urchin-structured Fe2O3 microspheres supported potassium for diesel soot catalytic elimination. Fuel, 2021, 306, 121661.	6.4	10
161	Fabrication and characterization of hexagonal mesoporous silica monolith via post-synthesized hydrothermal process. Journal of Sol-Gel Science and Technology, 2006, 39, 169-174.	2.4	9
162	Oxidation reactivities of organic sulfur compounds in fuel oil using immobilized heteropoly acid as catalyst. Journal Wuhan University of Technology, Materials Science Edition, 2007, 22, 320-324.	1.0	9

#	Article	IF	Citations
163	Fabrication of nitrogen doped carbon encapsulated ZnO particle and its application in a lithium ion conversion supercapacitor. Journal of Materials Research, 2017, 32, 334-342.	2.6	9
164	Deep insights into enhanced direct-desulfurization selectivity of thiourea-modified CoMoP/Î³-Al2O3: An investigation of catalyst microstructures. Fuel, 2020, 267, 116993.	6.4	9
165	Enhanced Efficiency and Stability of Quasiâ€2D Perovskite Lightâ€Emitting Diodes with Crosslinkable Alkenyl Amine Cations. Advanced Optical Materials, 2021, 9, 2101475.	7.3	9
166	Ionic liquid-assisted preparation of N, S-rich carbon dots as efficient corrosion inhibitors. Journal of Molecular Liquids, 2022, 356, 118943.	4.9	9
167	Deep Oxidative Desulfurization of Real Diesel Catalyzed by Na₂WO₄in Ionic Liquid. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2013, 35, 1-8.	2.3	8
168	Ammoniaâ€Treated Ordered Mesoporous Carbons with Hierarchical Porosity and Nitrogenâ€Doping for Lithiumâ€Sulfur Batteries. ChemistrySelect, 2017, 2, 7160-7168.	1.5	8
169	Improved efficiency in fullerene and non-fullerene polymer solar cells having an interdigitated interface with the electron transport layer. Materials Chemistry Frontiers, 2018, 2, 1859-1865.	5.9	8
170	Methylammonium-Mediated Crystallization of Cesium-Based 2D/3D Perovskites toward High-Efficiency Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2019, 11, 43452-43459.	8.0	8
171	Solid-state fabrication of CNT-threaded Fe1-S@N-doped carbon composite as high-rate anodes for sodium-ion batteries and hybrid capacitors. Journal of Alloys and Compounds, 2021, 869, 159303.	5.5	8
172	Binary Additive Engineering Enables Efficient Perovskite Solar Cells via Spray-Coating in Air. ACS Applied Energy Materials, 2021, 4, 11496-11504.	5.1	8
173	Surface and Interface Modified Thermal, Structural and Charge Transport Properties in Conjugated Polymer Thin Films. Advanced Materials Interfaces, 2016, 3, 1600084.	3.7	7
174	Correlating Nanoscale Morphology with Device Performance in Conventional and Inverted PffBT4T-2OD:PC₇₁BM Polymer Solar Cells. ACS Applied Energy Materials, 2018, 1, 3505-3512.	5.1	7
175	Formation of thin layer graphite wrapped meso-porous SiOx and its lithium storage application. Ceramics International, 2019, 45, 24707-24716.	4.8	7
176	Ag₂Bil₅ Perovskite Quantum Dots Passivated with Oleylamine Sulfide for Solar Cells and Detection of Cu(II) Ions. ACS Applied Nano Materials, 2021, 4, 9895-9903.	5.0	7
177	Adsorption structures of heterocyclic sulfur compounds on Cu(I)Y zeolite: a first principle study. Studies in Surface Science and Catalysis, 2007, , 1699-1704.	1.5	6
178	Diethylenetriamine-assisted in situ synthesis of TiO₂ nanoparticles on carbon nanotubes with well-defined structure and enhanced photocatalytic performance. RSC Advances, 2017, 7, 50216-50224.	3.6	6
179	Perovskite-type (Ba0.15Sr0.85)(B0.15Co0.85)O3Âą´ÂÎ´ (BÂ=ÂTi, Nb) oxides: structural stability, oxygen nonstoichiometry, and oxygen sorption/desorption properties. Ionics, 2017, 23, 717-724.	2.4	6
180	Toward the Insights into Fast CO₂ Absorption over Novel Nanostructured MgO-Based Sorbent. Industrial & Engineering Chemistry Research, 2018, 57, 10591-10600.	3.7	6

#	Article	IF	Citations
181	A hybrid supercapacitor constructed by graphene wrapped ordered meso-porous Si based electrode. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 576, 15-21.	4.7	6
182	Catalyst-Support interactions enhanced electrochemical nitrogen reduction on Au/ZrO2. Electrochimica Acta, 2021, 381, 138222.	5.2	6
183	The effects of structural properties on the lithium storage behavior of mesoporous TiO₂. Nanotechnology, 2017, 28, 265401.	2.6	5
184	Ultrathin NiFeS Nanomeshes with Sulfur Vacancy for Electrocatalytic Hydrogen Evolution. ChemElectroChem, 2020, 7, 2199-2204.	3.4	5
185	An Experimental Study on the Effects of Atomized Rain of a High Velocity Waterjet to Downstream Area in Low Ambient Pressure Environment. Water (Switzerland), 2020, 12, 397.	2.7	5
186	<scp>In situ</scp> generated silver nanoparticles embedded in polyethersulfone nanostructured membranes (<scp>Ag</scp>/<scp>PES</scp>) for antimicrobial decontamination of water. Journal of Chemical Technology and Biotechnology, 2021, 96, 3185-3195.	3.2	5
187	Temperature-controlled ultra-high hydrogen evolution photocatalytic activity of cadmium sulfide without cocatalysts. Journal of Colloid and Interface Science, 2022, 608, 366-377.	9.4	5
188	Conjugated amidine ligands enhance the performance of perovskite nanocrystal blue light-emitting diodes prepared in air with green solvents. Journal of Materials Chemistry C, 2021, 9, 15488-15495.	5.5	5
189	Perovskite Solar Cells: Ionic Additive Engineering Toward High-Efficiency Perovskite Solar Cells with Reduced Grain Boundaries and Trap Density (Adv. Funct. Mater. 34/2018). Advanced Functional Materials, 2018, 28, 1870240.	14.9	4
190	Highly efficient recovery of hydrogen from dilute H2-streams using BaCe0.7Zr0.1Y0.2O3-Î´/Ni-BaCe0.7Zr0.1Y0.2O3-Î´ dual-layer hollow fiber membrane. Separation and Purification Technology, 2022, 287, 120602.	7.9	4
191	Sulfur redox reactions on nanostructured highly oriented pyrolytic graphite (HOPG) electrodes: Direct evidence for superior electrocatalytic performance on defect sites. Carbon, 2017, 119, 460-463.	10.3	3
192	MnO 2 â€Mediated Synthesis of Mn 3 O 4 @CaMn 7 O 12 Core@Shell Nanorods for Electrocatalytic Oxygen Reduction Reaction. ChemElectroChem, 2019, 6, 618-622.	3.4	3
193	One-step conversion of syngas to hydrocarbons and ethers over ZIF-8 derived ZnO coupling HZSM-5. Journal of Fuel Chemistry and Technology, 2020, 48, 698-703.	2.0	3
194	Preparation of carbon-coated brookite@anatase TiO2 heterophase junction nanocables with enhanced photocatalytic performance. Photochemical and Photobiological Sciences, 2020, 19, 966-975.	2.9	3
195	Promoting effect of PdZn alloy for selective hydrogenation of 5â€hydroxylmethylfurfural: An experimental and density functional theory study. International Journal of Quantum Chemistry, 2021, 121, e26545.	2.0	3
196	Efficient Hole Transfer via CsPbBr₃ Quantum Dots Doping toward Highâ€Performance Organic Solar Cells. Solar Rrl, 2021, 5, 2100499.	5.8	3
197	The impact of a trace amount of water in an electrolyte on the performance of Liâ€ion batteriesâ€”An empirical kinetic model approach. International Journal of Energy Research, 2022, 46, 7988-7995.	4.5	3
198	Template-free synthesis of Mn2+ doped hierarchical CuS yolk-shell microspheres for photocatalytic reduction of Cr(VI). CrystEngComm, 0, , .	2.6	3

#	Article	IF	Citations
199	Selective Oxidation of Cyclohexane Using a Co-M/Al 2 O 3 Catalyst without Additives. Petroleum Science and Technology, 2006, 24, 1331-1338.	1.5	2
200	Simultaneous phase control and carbon intercalation of MoS₂ for electrochemical hydrogen evolution catalysis. Materials Advances, 2021, 2, 7482-7489.	5.4	2
201	In-Situ Reaction Influenced Polyamide 11 Crystallization in Polymer Blends. Polymer-Plastics Technology and Engineering, 2007, 46, 893-899.	1.9	1
202	One-pot synthesis of mesostructured Ag/silica composite films. Journal Wuhan University of Technology, Materials Science Edition, 2007, 22, 657-660.	1.0	1
203	A strategy to incorporate monodispersed PbS nanoparticles into ordered mesoporous silica monolith. Journal of Sol-Gel Science and Technology, 2008, 46, 57-62.	2.4	1
204	Hydrogen ion supercapacitor cell construction and rational design of cell structure. International Journal of Energy Research, 2019, 43, 8439.	4.5	1
205	Clean Synthesis of Adipic Acid by Direct Oxidation of Cyclohexene with H2O2 Catalyzed by Na2WO4Ã—2H2O and Acidic Ionic Liquids.. ChemInform, 2005, 36, no.	0.0	0
206	A novel route for synthesis of NiCoP/SiO₂ hydrodesulfurization catalysts with active S species. Applied Organometallic Chemistry, 2018, 32, e4306.	3.5	0
207	Selfâ€Assembled Metal Zinc Threeâ€Dimensional Microstructures at Room Temperature. Crystal Research and Technology, 2018, 53, 1700148.	1.3	0