Guohua Chen

List of Publications by Year
in descending order

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355 papers	27,145 citations	3919 88 h-index	7718 150 g-index
367 all docs	367 docs citations	367 times ranked	27139 citing authors

#	Article	IF	Citations
1	Electrochemical technologies in wastewater treatment. Separation and Purification Technology, 2004, 38, 11-41.	3.9	2,585
2	Removal and recovery of Cr(VI) from wastewater by maghemite nanoparticles. Water Research, 2005, 39, 4528-4536.	5.3	925
3	Photoelectrocatalytic materials for environmental applications. Journal of Materials Chemistry, 2009, 19, 5089.	6.7	880
4	Separation of pollutants from restaurant wastewater by electrocoagulation. Separation and Purification Technology, 2000, 19, 65-76.	3.9	675
5	Potent Antibacterial Activities of Ag/TiO₂Nanocomposite Powders Synthesized by a One-Pot Solâ"Gel Method. Environmental Science & Technology, 2009, 43, 2905-2910.	4.6	404
6	Electrochemical removal of fluoride ions from industrial wastewater. Chemical Engineering Science, 2003, 58, 987-993.	1.9	369
7	As(V) adsorption on maghemite nanoparticles. Journal of Hazardous Materials, 2009, 166, 1415-1420.	6.5	368
8	Building ultraconformal protective layers on both secondary and primary particles of layered lithium transition metal oxide cathodes. Nature Energy, 2019, 4, 484-494.	19.8	345
9	Selective Removal of Heavy Metals from Industrial Wastewater Using Maghemite Nanoparticle: Performance and Mechanisms. Journal of Environmental Engineering, ASCE, 2006, 132, 709-715.	0.7	320
10	Electrochemical Method for Synthesis of a ZnFe₂O₄/TiO₂ Composite Nanotube Array Modified Electrode with Enhanced Photoelectrochemical Activity. Advanced Functional Materials, 2010, 20, 2165-2174.	7.8	317
11	Fast Removal and Recovery of Cr(VI) Using Surface-Modified Jacobsite (MnFe2O4) Nanoparticles. Langmuir, 2005, 21, 11173-11179.	1.6	309
12	Fabrication of Boron-Doped TiO₂ Nanotube Array Electrode and Investigation of Its Photoelectrochemical Capability. Journal of Physical Chemistry C, 2007, 111, 11836-11842.	1.5	271
13	Comparative study of various magnetic nanoparticles for Cr(VI) removal. Separation and Purification Technology, 2007, 56, 249-256.	3.9	247
14	Hierarchically porous nitrogen-doped carbon derived from the activation of agriculture waste by potassium hydroxide and urea for high-performance supercapacitors. Journal of Power Sources, 2018, 378, 579-588.	4.0	246
15	A fast estimation algorithm for lithium-ion battery state of health. Journal of Power Sources, 2018, 396, 453-458.	4.0	240
16	Photoeletrocatalytic Activity of a Cu₂O-Loaded Self-Organized Highly Oriented TiO₂ Nanotube Array Electrode for 4-Chlorophenol Degradation. Environmental Science & Technology, 2009, 43, 858-863.	4.6	236
17	Role of Hydroxyl Radicals and Mechanism of Escherichia coli Inactivation on Ag/AgBr/TiO₂ Nanotube Array Electrode under Visible Light Irradiation. Environmental Science & Technology, 2012, 46, 4042-4050.	4.6	235
18	SLUDGE DEWATERING AND DRYING. Drying Technology, 2002, 20, 883-916.	1.7	227

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19	Removal of chromium(VI) from wastewater by combined electrocoagulation?electroflotation without a filter. Separation and Purification Technology, 2005, 43, 117-123.	3.9	220
20	The developments of SnO2/graphene nanocomposites as anode materials for high performance lithium ion batteries: A review. Journal of Power Sources, 2016, 304, 81-101.	4.0	216
21	One-pot synthesis of ZnFe2O4/C hollow spheres as superior anode materials for lithium ion batteries. Chemical Communications, 2011, 47, 6828.	2.2	214
22	Electrochemical degradation of aqueous solution of Amaranth azo dye on ACF under potentiostatic model. Dyes and Pigments, 2008, 76, 440-446.	2.0	213
23	Electrochemical degradation of bisphenol A on different anodes. Water Research, 2009, 43, 1968-1976.	5.3	212
24	Electrocoagulation and Electroflotation of Restaurant Wastewater. Journal of Environmental Engineering, ASCE, 2000, 126, 858-863.	0.7	209
25	Effect of inorganic matter on reactivity and kinetics of coal pyrolysis. Fuel, 2004, 83, 713-718.	3.4	190
26	Hexagonal microspindle of NH₂-MIL-101(Fe) metalâ€“organic frameworks with visible-light-induced photocatalytic activity for the degradation of toluene. RSC Advances, 2016, 6, 4289-4295.	1.7	190
27	Stable Ti/IrOxâˆ’Sb2O5âˆ’SnO2Anode for O2Evolution with Low Ir Content. Journal of Physical Chemistry B, 2001, 105, 4623-4628.	1.2	185
28	Electrochemically Assisted Photocatalytic Degradation of 4-Chlorophenol by ZnFe₂O₄âˆ’Modified TiO₂ Nanotube Array Electrode under Visible Light Irradiation. Environmental Science & Technology, 2010, 44, 5098-5103.	4.6	176
29	Deep Eutectic Solvents for Boosting Electrochemical Energy Storage and Conversion: A Review and Perspective. Advanced Functional Materials, 2021, 31, 2011102.	7.8	172
30	Novel Electrode System for Electroflotation of Wastewater. Environmental Science & Technology, 2002, 36, 778-783.	4.6	171
31	Investigation on the electrolysis voltage of electrocoagulation. Chemical Engineering Science, 2002, 57, 2449-2455.	1.9	171
32	Graphene-wrapped chromium-MOF(MIL-101)/sulfur composite for performance improvement of high-rate rechargeable Liâ€“S batteries. Journal of Materials Chemistry A, 2014, 2, 13509-13512.	5.2	171
33	Performance and mechanism of chromate (VI) adsorption by Î´-FeOOH-coated maghemite (Î³-Fe2O3) nanoparticles. Separation and Purification Technology, 2007, 58, 76-82.	3.9	170
34	Anodic oxidation of dyes at novel Ti/B-diamond electrodes. Chemical Engineering Science, 2003, 58, 995-1001.	1.9	160
35	Ionic liquid-facilitated synthesis and catalytic activity of highly dispersed Ag nanoclusters supported on TiO2. Journal of Materials Chemistry, 2009, 19, 8223.	6.7	160
36	ZnFe2O4 multi-porous microbricks/graphene hybrid photocatalyst: Facile synthesis, improved activity and photocatalytic mechanism. Applied Catalysis B: Environmental, 2013, 142-143, 80-88.	10.8	159

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37	Fabrication of Ag/Ag3PO4/TiO2 heterostructure photoelectrodes for efficient decomposition of 2-chlorophenol under visible light irradiation. Journal of Materials Chemistry A, 2013, 1, 9060.	5.2	158
38	High-Performance Ti/BDD Electrodes for Pollutant Oxidation. Environmental Science & Technology, 2003, 37, 5021-5026.	4.6	156
39	Ultrasmall graphitic carbon nitride quantum dots decorated self-organized TiO2 nanotube arrays with highly efficient photoelectrochemical activity. Applied Catalysis B: Environmental, 2016, 186, 127-135.	10.8	153
40	Comparison of Ti/BDD and Ti/SnO2?Sb2O5 electrodes for pollutant oxidation. Journal of Applied Electrochemistry, 2005, 35, 185-191.	1.5	152
41	Electrosprayed silicon-embedded porous carbon microspheres as lithium-ion battery anodes with exceptional rate capacities. Carbon, 2018, 127, 424-431.	5.4	150
42	Sulfur-rich polymeric materials with semi-interpenetrating network structure as a novel lithiumâ€“sulfur cathode. Journal of Materials Chemistry A, 2014, 2, 9280.	5.2	149
43	Electrochemical Behavior of Novel Ti/IrOxâ^'Sb2O5â^'SnO2Anodes. Journal of Physical Chemistry B, 2002, 106, 4364-4369.	1.2	148
44	Effect of Set Potential on Hexavalent Chromium Reduction and Electricity Generation from Biocathode Microbial Fuel Cells. Environmental Science & Technology, 2011, 45, 5025-5031.	4.6	146
45	Removal of cadmium ions from wastewater using innovative electronic waste-derived material. Journal of Hazardous Materials, 2014, 273, 118-123.	6.5	146
46	Theoretical study on concentration polarization in gas separation membrane processes. Journal of Membrane Science, 1999, 153, 243-258.	4.1	143
47	Recent advances in Mn-based oxides as anode materials for lithium ion batteries. RSC Advances, 2014, 4, 23914-23935.	1.7	143
48	Catalytic dechlorination of chlorophenols in water by palladium/iron. Water Research, 2001, 35, 1887-1890.	5.3	142
49	Porous Mn2O3 microsphere as a superior anode material for lithium ion batteries. RSC Advances, 2012, 2, 4645.	1.7	142
50	Shape-controlled fabrication of the porous Co3O4 nanoflower clusters for efficient catalytic oxidation of gaseous toluene. Journal of Hazardous Materials, 2012, 209-210, 385-391.	6.5	142
51	An interwoven MoO₃@CNT scaffold interlayer for high-performance lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2018, 6, 8612-8619.	5.2	141
52	Novel Hierarchically Porous Carbon Materials Obtained from Natural Biopolymer as Host Matrixes for Lithiumâ€“Sulfur Battery Applications. ACS Applied Materials & Interfaces, 2014, 6, 13174-13182.	4.0	133
53	Conductive metalâ€“organic framework with redox metal center as cathode for high rate performance lithium ion battery. Journal of Power Sources, 2019, 429, 22-29.	4.0	133
54	Evaluation of bias potential enhanced photocatalytic degradation of 4-chlorophenol with TiO2 nanotube fabricated by anodic oxidation method. Chemical Engineering Journal, 2009, 146, 30-35.	6.6	131

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55	Controllable synthesis of spinel nano-ZnMn2O4via a single source precursor route and its high capacity retention as anode material for lithium ion batteries. Journal of Materials Chemistry, 2011, 21, 11987.	6.7	130
56	Improving the electrochemical performance of the LiNi_{0.5}Mn_{1.5}O₄spinel by polypyrrole coating as a cathode material for the lithium-ion battery. Journal of Materials Chemistry A, 2015, 3, 404-411.	5.2	130
57	Glass recycling in cement productionâ€"an innovative approach. Waste Management, 2002, 22, 747-753.	3.7	129
58	Highly Oriented 1-D ZnO Nanorod Arrays on Zinc Foil:â€‰ Direct Growth from Substrate, Optical Properties and Photocatalytic Activities. Journal of Physical Chemistry C, 2008, 112, 7332-7336.	1.5	125
59	Salinity Effect on Mechanical Dewatering of Sludge with and without Chemical Conditioning. Environmental Science & Technology, 2001, 35, 4691-4696.	4.6	121
60	Evaluation of carbon-based materials in tubular biocathode microbial fuel cells in terms of hexavalent chromium reduction and electricity generation. Chemical Engineering Journal, 2011, 166, 652-661.	6.6	121
61	Bioelectrochemical systems for efficient recalcitrant wastes treatment. Journal of Chemical Technology and Biotechnology, 2011, 86, 481-491.	1.6	121
62	Fe₃O₄-Decorated Porous Graphene Interlayer for High-Performance Lithiumâ€"Sulfur Batteries. ACS Applied Materials & Interfaces, 2018, 10, 26264-26273.	4.0	117
63	Stable Ti/RuO2â€"Sb2O5â€"SnO2 electrodes for O2 evolution. Electrochimica Acta, 2005, 50, 4155-4159.	2.6	114
64	Ultrasound assisted supercritical fluid extraction of oil and coixenolide from adlay seed. Ultrasonics Sonochemistry, 2007, 14, 219-224.	3.8	114
65	Combined electrocoagulation and electroflotation for removal of fluoride from drinking water. Journal of Hazardous Materials, 2008, 159, 452-457.	6.5	114
66	Reductive dechlorination and mineralization of pentachlorophenol in biocathode microbial fuel cells. Bioresource Technology, 2012, 111, 167-174.	4.8	112
67	Ultrafine Titanium Nitride Sheath Decorated Carbon Nanofiber Network Enabling Stable Lithium Metal Anodes. Advanced Functional Materials, 2019, 29, 1903229.	7.8	112
68	Hollow Fe3O4/C spheres as superior lithium storage materials. Journal of Power Sources, 2012, 197, 305-309.	4.0	111
69	The effects of persulfate treatment on the electrochemical properties of Li[Li0.2Mn0.54Ni0.13Co0.13]O2 cathode material. Journal of Power Sources, 2013, 221, 108-113.	4.0	110
70	Nonisothermal Catalytic Liquefaction of Corn Stalk in Subcritical and Supercritical Water. Energy & Fuels, 2004, 18, 90-96.	2.5	109
71	Preparation of UF and NF poly (phthalazine ether sulfone ketone) membranes for high temperature application. Journal of Membrane Science, 1999, 161, 185-191.	4.1	108
72	Highly-Ordered MagnÃ©li Ti4O7 Nanotube Arrays as Effective Anodic Material for Electro-oxidation. Electrochimica Acta, 2015, 153, 316-324.	2.6	108

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73	Treatment of textile desizing wastewater by pilot scale nanofiltration membrane separation. Journal of Membrane Science, 1997, 127, 93-99.	4.1	107
74	Improved electrochemical performance of Li_{1.2}Mn_{0.54}Ni_{0.13}Co_{0.13}O₂ by Mg doping for lithium ion battery cathode material. Journal of Materials Chemistry A, 2014, 2, 15015-15021.	5.2	107
75	Anodic oxidation of Orange II on Ti/BDD electrode: Variable effects. Separation and Purification Technology, 2006, 48, 45-49.	3.9	105
76	Synthesis and Photoinduced Charge-Transfer Properties of a ZnFe₂O₄-Sensitized TiO₂ Nanotube Array Electrode. Langmuir, 2011, 27, 3113-3120.	1.6	104
77	Graphene-encapsulated sulfur (GES) composites with a coreâ€“shell structure as superior cathode materials for lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2013, 1, 15142.	5.2	102
78	Oxygen and nitrogen co-doped porous carbon granules enabling dendrite-free lithium metal anode. Energy Storage Materials, 2019, 18, 320-327.	9.5	102
79	Mechanism of arsenic removal using chitosan and nanochitosan. Journal of Colloid and Interface Science, 2014, 416, 1-10.	5.0	100
80	Kinetics and equilibrium studies for the removal of cadmium ions by ion exchange resin. Journal of Environmental Chemical Engineering, 2014, 2, 698-707.	3.3	100
81	Self-assembly graphitic carbon nitride quantum dots anchored on TiO2 nanotube arrays: An efficient heterojunction for pollutants degradation under solar light. Journal of Hazardous Materials, 2016, 316, 159-168.	6.5	100
82	Product distribution and sulfur behavior in coal pyrolysis. Fuel Processing Technology, 2004, 85, 849-861.	3.7	98
83	Novel phosphorus doped carbon nitride modified TiO₂ nanotube arrays with improved photoelectrochemical performance. Nanoscale, 2015, 7, 16282-16289.	2.8	96
84	High-performance In2O3@PANI core@shell architectures with ultralong charge carriers lifetime for photocatalytic degradation of gaseous 1,2-dichlorobenzene. Applied Catalysis B: Environmental, 2020, 263, 118278.	10.8	96
85	Separation of water and oil from water-in-oil emulsion by freeze/thaw method. Separation and Purification Technology, 2003, 31, 83-89.	3.9	95
86	Development and characterization of composite nanofiltration membranes and their application in concentration of antibiotics. Separation and Purification Technology, 2003, 30, 27-35.	3.9	94
87	Capability of novel ZnFe2O4 nanotube arrays for visible-light induced degradation of 4-chlorophenol. Chemosphere, 2011, 82, 581-586.	4.2	94
88	Wastewater quality monitoring system using sensor fusion and machine learning techniques. Water Research, 2012, 46, 1133-1144.	5.3	94
89	TiO2 nanotube/Agâ€“AgBr three-component nanojunction for efficient photoconversion. Journal of Materials Chemistry, 2011, 21, 18067.	6.7	89
90	MagnÃ©li Ti 4 O 7 modified ceramic membrane for electrically-assisted filtration with antifouling property. Journal of Membrane Science, 2016, 498, 302-314.	4.1	89

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91	Recent Advances of Mnâ€Rich LiFe<sub>1â€<sub>_yMn_yPO₄ (0.5 â‰¥ y < 1.0) Cathode Materials for High Energy Density Lithium Ion Batteries. Advanced Energy Materials, 2017, 7, 1601958.	10.2	89
92	Hydrogen bonding interactions between ethylene glycol and water: density, excess molar volume, and spectral study. Science in China Series B: Chemistry, 2008, 51, 420-426.	0.8	88
93	Waterâ€Based Isotropically Conductive Adhesives: Towards Green and Lowâ€Cost Flexible Electronics. Advanced Functional Materials, 2011, 21, 4582-4588.	7.8	88
94	Preparation, characterization and photoelectrocatalytic properties of nanocrystalline Fe2O3/TiO2, ZnO/TiO2, and Fe2O3/ZnO/TiO2 composite film electrodes towards pentachlorophenol degradation. Physical Chemistry Chemical Physics, 2004, 6, 659.	1.3	86
95	Customizing coaxial stacking VS₂ nanosheets for dual-band microwave absorption with superior performance in the C- and K_u-bands. Journal of Materials Chemistry C, 2020, 8, 5923-5933.	2.7	86
96	Structural and photovoltaic properties of highly ordered ZnFe2O4 nanotube arrays fabricated by a facile solâ€“gel template method. Acta Materialia, 2009, 57, 2684-2690.	3.8	84
97	Self-templated formation of ZnFe₂O₄ double-shelled hollow microspheres for photocatalytic degradation of gaseous o-dichlorobenzene. Journal of Materials Chemistry A, 2017, 5, 8909-8915.	5.2	84
98	Active Sites in Single-Atom Feâ€“N_xâ€“C Nanosheets for Selective Electrochemical Dechlorination of 1,2-Dichloroethane to Ethylene. ACS Nano, 2020, 14, 9929-9937.	7.3	83
99	Osmotic Dehydration Pretreatment in Drying of Fruits and Vegetables. Drying Technology, 2003, 21, 1101-1114.	1.7	82
100	Role of Freeze Drying in Nanotechnology. Drying Technology, 2007, 25, 29-35.	1.7	82
101	Dependency of simultaneous Cr(VI), Cu(II) and Cd(II) reduction on the cathodes of microbial electrolysis cells self-driven by microbial fuel cells. Journal of Power Sources, 2015, 273, 1103-1113.	4.0	82
102	Boron and Nitrogen Codoped Nanodiamond as an Efficient Metal-Free Catalyst for Oxygen Reduction Reaction. Journal of Physical Chemistry C, 2013, 117, 14992-14998.	1.5	80
103	Nitrogen-rich porous carbon in ultra-high yield derived from activation of biomass waste by a novel eutectic salt for high performance Li-ion capacitors. Carbon, 2020, 161, 25-35.	5.4	80
104	Catalytic wet air oxidation of wastewater containing ammonia and phenol over activated carbon supported Pt catalysts. Catalysis Today, 2003, 88, 37-47.	2.2	77
105	Preparation of supported carbon molecular sieve membrane from novolac phenolâ€“formaldehyde resin. Journal of Membrane Science, 2007, 303, 80-85.	4.1	77
106	Extraction of Huadian oil shale with water in sub- and supercritical states. Fuel, 1999, 78, 645-651.	3.4	76
107	In Situ Assembly of Zeolite Nanocrystals into Mesoporous Aggregate with Single-Crystal-Like Morphology without Secondary Template. Chemistry of Materials, 2008, 20, 1670-1672.	3.2	76
108	The enhanced rate performance of LiFe_{0.5}Mn_{0.5}PO₄/C cathode material via synergistic strategies of surfactant-assisted solid state method and carbon coating. Journal of Materials Chemistry A, 2015, 3, 996-1004.	5.2	75

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109	In-Plane Highly Dispersed Cu₂O Nanoparticles for Seeded Lithium Deposition. Nano Letters, 2019, 19, 4601-4607.	4.5	75
110	CoS-interposed and Ketjen black-embedded carbon nanofiber framework as a separator modulation for high performance Li-S batteries. Chemical Engineering Journal, 2019, 369, 77-86.	6.6	75
111	Insight to the synergistic effect of N-doping level and pore structure on improving the electrochemical performance of sulfur/N-doped porous carbon cathode for Li-S batteries. Carbon, 2019, 144, 745-755.	5.4	75
112	Synthesis of ZnO/TiO2 nanotube composite film by a two-step route. Materials Letters, 2008, 62, 3691-3693.	1.3	73
113	Synergetic interactions improve cobalt leaching from lithium cobalt oxide in microbial fuel cells. Bioresource Technology, 2013, 128, 539-546.	4.8	72
114	Graphene Oxide-Immobilized NH₂-Terminated Silicon Nanoparticles by Cross-Linked Interactions for Highly Stable Silicon Negative Electrodes. ACS Applied Materials & Interfaces, 2014, 6, 11277-11285.	4.0	72
115	Synthesis and photo-catalytic degradation property of nanostructured-ZnO with different morphology. Materials Letters, 2008, 62, 2359-2362.	1.3	70
116	Correlations of WO3 species and structure with the catalytic performance of the selective oxidation of cyclopentene to glutaraldehyde on WO3/TiO2 catalysts. Chemical Engineering Journal, 2010, 159, 242-246.	6.6	70
117	Improving the Electrochemical Performance of Si Nanoparticle Anode Material by Synergistic Strategies of Polydopamine and Graphene Oxide Coatings. Journal of Physical Chemistry C, 2015, 119, 1720-1728.	1.5	68
118	Heat and mass transfer in batch fluidized-bed drying of porous particles. Chemical Engineering Science, 2000, 55, 1857-1869.	1.9	67
119	Theoretical study of microwave heating patterns on batch fluidized bed drying of porous material. Chemical Engineering Science, 2001, 56, 6823-6835.	1.9	66
120	Pilot scale membrane separation of electroplating waste water by reverse osmosis. Journal of Membrane Science, 1997, 123, 235-242.	4.1	65
121	Oxidative degradation of azo dye by hydrogen peroxide electrogenerated in situ on anthraquinonemonosulphonate/polypyrrole composite cathode with heterogeneous CuO/Î³-Al2O3 catalyst. Applied Catalysis B: Environmental, 2011, 106, 370-378.	10.8	65
122	Porous LiMn2O4 microspheres as durable high power cathode materials for lithium ion batteries. Journal of Materials Chemistry A, 2013, 1, 8170.	5.2	65
123	Toward High Performance Allâ€Solidâ€State Lithium Batteries with Highâ€Voltage Cathode Materials: Design Strategies for Solid Electrolytes, Cathode Interfaces, and Composite Electrodes. Advanced Energy Materials, 2021, 11, 2003154.	10.2	65
124	Synthesis, characterization and adsorptive performance of MgFe2O4 nanospheres for SO2 removal. Journal of Hazardous Materials, 2010, 184, 704-709.	6.5	64
125	Novel Germanium/Polypyrrole Composite for High Power Lithium-ion Batteries. Scientific Reports, 2014, 4, 6095.	1.6	63
126	Wet Oxidation of High-Concentration Reactive Dyes. Industrial & Engineering Chemistry Research, 1999, 38, 1837-1843.	1.8	62

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127	Durable polydopamine-coated porous sulfur coreâ€“shell cathode for high performance lithiumâ€“sulfur batteries. Journal of Power Sources, 2015, 300, 386-394.	4.0	62
128	A new clean approach for production of cobalt dihydroxide from aqueous Co(II) using oxygen-reducing biocathode microbial fuel cells. Journal of Cleaner Production, 2015, 86, 441-446.	4.6	61
129	Ultrathin sheets of MoS2/g-C3N4 composite as a good hosting material of sulfur for lithiumâ€“sulfur batteries. Journal of Power Sources, 2019, 431, 93-104.	4.0	61
130	Surface engineering in improving activity of Pt nanocubes for ammonia electrooxidation reaction. Applied Catalysis B: Environmental, 2020, 269, 118821.	10.8	58
131	Wet Air Oxidation of Desizing Wastewater from the Textile Industry. Industrial & Engineering Chemistry Research, 2000, 39, 2896-2901.	1.8	57
132	Heat and mass transfer model of dielectric-material-assisted microwave freeze-drying of skim milk with hygroscopic effect. Chemical Engineering Science, 2005, 60, 6542-6550.	1.9	57
133	Numerical simulation of conjugate heat and mass transfer process within cylindrical porous media with cylindrical dielectric cores in microwave freeze-drying. International Journal of Heat and Mass Transfer, 2005, 48, 561-572.	2.5	57
134	Electrochemical degradation of Amaranth aqueous solution on ACF. Journal of Hazardous Materials, 2006, 137, 1182-1188.	6.5	57
135	Bioanodes/biocathodes formed at optimal potentials enhance subsequent pentachlorophenol degradation and power generation from microbial fuel cells. Bioelectrochemistry, 2013, 94, 13-22.	2.4	54
136	On the degradability of printing and dyeing wastewater by wet air oxidation. Water Research, 2001, 35, 2078-2080.	5.3	53
137	Physical Interpretation of Solids Drying: An Overview on Mathematical Modeling Research. Drying Technology, 2007, 25, 659-668.	1.7	53
138	Hydrogen Bonding and Interaction in the Absorption Processes of Sulfur Dioxide in Ethylene Glycol + Water Binary Desulfurization System. Industrial & Engineering Chemistry Research, 2009, 48, 1287-1291.	1.8	53
139	Porous â€œbrick-likeâ€•NiFe2O4 nanocrystals loaded with Ag species towards effective degradation of toluene. Chemical Engineering Journal, 2010, 165, 64-70.	6.6	53
140	Preparation of carbon adsorbents with high surface area and a model for calculating surface area. Carbon, 2002, 40, 277-284.	5.4	52
141	Synergetic degradation of 2,4-D by integrated photo- and electrochemical catalysis on a Pt doped TiO2/Ti electrode. Separation and Purification Technology, 2004, 34, 73-79.	3.9	52
142	Carbon-Encapsulated Sn@N-Doped Carbon Nanotubes as Anode Materials for Application in SIBs. ACS Applied Materials & Interfaces, 2017, 9, 37682-37693.	4.0	52
143	Carbon Aerogels for Environmental Cleanâ€Up. European Journal of Inorganic Chemistry, 2019, 2019, 3126-3141.	1.0	52
144	Effects of Surface Features on Sulfur Dioxide Adsorption on Calcined NiAl Hydrotalcite-like Compounds. Environmental Science & Technology, 2011, 45, 5373-5379.	4.6	51

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145	Degradation of pentachlorophenol with the presence of fermentable and non-fermentable co-substrates in a microbial fuel cell. Bioresource Technology, 2011, 102, 8762-8768.	4.8	51
146	An appropriate amount of new spinel phase induced by control synthesis for the improvement of electrochemical performance of Li-rich layered oxide cathode material. Electrochimica Acta, 2020, 330, 135240.	2.6	51
147	Combined effects of enrichment procedure and non-fermentable or fermentable co-substrate on performance and bacterial community for pentachlorophenol degradation in microbial fuel cells. Bioresource Technology, 2012, 120, 120-126.	4.8	50
148	Effect of Competing Anions on Arsenate Adsorption onto Maghemite Nanoparticles. Chinese Journal of Chemical Engineering, 2012, 20, 505-514.	1.7	50
149	Heat and mass transfer during low intensity convection drying. Chemical Engineering Science, 1999, 54, 3899-3908.	1.9	49
150	A scalable slurry process to fabricate a 3D lithiophilic and conductive framework for a high performance lithium metal anode. Journal of Materials Chemistry A, 2019, 7, 13225-13233.	5.2	49
151	N-doped carbon-coated hollow carbon nanofibers with interspersed TiO2 for integrated separator of Li-S batteries. Electrochimica Acta, 2019, 297, 641-649.	2.6	49
152	Numerical Investigation on Dielectric Material Assisted Microwave Freeze-Drying of Aqueous Mannitol Solution. Drying Technology, 2003, 21, 995-1017.	1.7	47
153	Mineralization of pentachlorophenol with enhanced degradation and power generation from air cathode microbial fuel cells. Biotechnology and Bioengineering, 2012, 109, 2211-2221.	1.7	47
154	One-dimensional structured IrO2 nanorods modified membrane for electrochemical anti-fouling in filtration of oily wastewater. Separation and Purification Technology, 2015, 156, 931-941.	3.9	47
155	Anomalous Enhancement of Liâ€Ō₂ Battery Performance with Li₂O₂ Films Assisted by NiFeO_x Nanofiber Catalysts: Insights into Morphology Control. Advanced Functional Materials, 2016, 26, 8290-8299.	7.8	47
156	Fe3C/Fe nanoparticles embedded in N-doped porous carbon nanosheets and graphene: A thin functional interlayer for PP separator to boost performance of Li-S batteries. Chemical Engineering Journal, 2021, 415, 129001.	6.6	47
157	Preparation of carbon molecular sieve membrane from phenolâ€“formaldehyde Novolac resin. Carbon, 2002, 40, 465-467.	5.4	46
158	Specially designed carbon black nanoparticle-sulfur composite cathode materials with a novel structure for lithiumâ€“sulfur battery application. Journal of Power Sources, 2015, 285, 478-484.	4.0	45
159	Preparation and characterization of quaterinized chitosan/poly(acrylonitrile) composite nanofiltration membrane from anhydride mixture cross-linking. Separation and Purification Technology, 2008, 58, 393-399.	3.9	44
160	Synthesis of Cu2O nano-whiskers by a novel wet-chemical route. Materials Letters, 2008, 62, 886-888.	1.3	44
161	Unique three dimensional architecture using a metal-free semiconductor cross-linked bismuth vanadate for efficient photoelectrochemical water oxidation. Nano Energy, 2016, 24, 148-157.	8.2	44
162	Effect of Dielectric Material on Microwave Freeze Drying of Skim Milk. Drying Technology, 2005, 23, 317-340.	1.7	43

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