

Suqing Wang

List of Publications by Year in descending order

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332
papers

30,874
citations

3149

92
h-index

6113

159
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358
all docs

358
docs citations

358
times ranked

23550
citing authors

#	ARTICLE	IF	CITATIONS
1	Large reversible capacity of high quality graphene sheets as an anode material for lithium-ion batteries. <i>Electrochimica Acta</i> , 2010, 55, 3909-3914.	2.6	983
2	A Two-Dimensional Lamellar Membrane: MXene Nanosheet Stacks. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1825-1829.	7.2	831
3	MXene molecular sieving membranes for highly efficient gas separation. <i>Nature Communications</i> , 2018, 9, 155.	5.8	825
4	Nitrogen Fixation by Ru Single-Atom Electrocatalytic Reduction. <i>CheM</i> , 2019, 5, 204-214.	5.8	739
5	Electrochemical reduction of nitrate to ammonia via direct eight-electron transfer using a copper molecular solid catalyst. <i>Nature Energy</i> , 2020, 5, 605-613.	19.8	722
6	Efficient Electrocatalytic N ₂ Fixation with MXene under Ambient Conditions. <i>Joule</i> , 2019, 3, 279-289.	11.7	577
7	Molybdenum Carbide Nanodots Enable Efficient Electrocatalytic Nitrogen Fixation under Ambient Conditions. <i>Advanced Materials</i> , 2018, 30, e1803694.	11.1	572
8	Ammonia Electrosynthesis with High Selectivity under Ambient Conditions via a Li ⁺ Incorporation Strategy. <i>Journal of the American Chemical Society</i> , 2017, 139, 9771-9774.	6.6	547
9	Effective ion sieving with Ti ₃ C ₂ T _x MXene membranes for production of drinking water from seawater. <i>Nature Sustainability</i> , 2020, 3, 296-302.	11.5	468
10	Free-Standing Nitrogen-Doped Carbon Nanofiber Films: Integrated Electrodes for Sodium-Ion Batteries with Ultralong Cycle Life and Superior Rate Capability. <i>Advanced Energy Materials</i> , 2016, 6, 1502217.	10.2	440
11	Ammonia Synthesis Under Ambient Conditions: Selective Electroreduction of Dinitrogen to Ammonia on Black Phosphorus Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2612-2616.	7.2	420
12	Enhanced cycling performance of Fe ₃ O ₄ /graphene nanocomposite as an anode material for lithium-ion batteries. <i>Electrochimica Acta</i> , 2010, 56, 834-840.	2.6	389
13	Advances in Electrocatalytic N ₂ Reduction Strategies to Tackle the Selectivity Challenge. <i>Small Methods</i> , 2019, 3, 1800337.	4.6	387
14	Enhancing interfacial contact in all solid state batteries with a cathode-supported solid electrolyte membrane framework. <i>Energy and Environmental Science</i> , 2019, 12, 938-944.	15.6	386
15	High reversible capacity of SnO ₂ /graphene nanocomposite as an anode material for lithium-ion batteries. <i>Electrochimica Acta</i> , 2011, 56, 4532-4539.	2.6	376
16	Influence of CO ₂ on the oxygen permeation performance and the microstructure of perovskite-type (Ba _{0.5} Sr _{0.5})(Co _{0.8} Fe _{0.2})O _{3-δ} membranes. <i>Journal of Membrane Science</i> , 2007, 293, 44-52.	4.1	344
17	A 3D Hybrid of Chemically Coupled Nickel Sulfide and Hollow Carbon Spheres for High Performance Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2017, 27, 1702524.	7.8	340
18	2D MoN Heterostructure To Regulate Polysulfides for Highly Efficient Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16703-16707.	7.2	313

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19	Flexible SnO ₂ /N-Doped Carbon Nanofiber Films as Integrated Electrodes for Lithium-Ion Batteries with Superior Rate Capacity and Long Cycle Life. <i>Small</i> , 2016, 12, 853-859.	5.2	292
20	Freestanding, Hydrophilic Nitrogen-Doped Carbon Foams for Highly Compressible All Solid-State Supercapacitors. <i>Advanced Materials</i> , 2016, 28, 5997-6002.	11.1	285
21	Self-Crosslinked MXene (Ti ₃ C ₂ T _x) Membranes with Good Antiswelling Property for Monovalent Metal Ion Exclusion. <i>ACS Nano</i> , 2019, 13, 10535-10544.	7.3	284
22	Water Transport with Ultralow Friction through Partially Exfoliated g-C ₃ N ₄ Nanosheet Membranes with Self-Supporting Spacers. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8974-8980.	7.2	266
23	A Cobalt-Free Oxygen-Permeable Membrane Based on the Perovskite-Type Oxide Ba _{0.5} Sr _{0.5} Zn _{0.2} Fe _{0.8} O _{3-δ} . <i>Advanced Materials</i> , 2005, 17, 1785-1788.	11.1	244
24	Paralyzed membrane: Current-driven synthesis of a metal-organic framework with sharpened propene/propane separation. <i>Science Advances</i> , 2018, 4, eaau1393.	4.7	234
25	Comprehensive Understanding of the Thriving Ambient Electrochemical Nitrogen Reduction Reaction. <i>Advanced Materials</i> , 2021, 33, e2007650.	11.1	229
26	Niobium doped lithium titanate as a high rate anode material for Li-ion batteries. <i>Electrochimica Acta</i> , 2010, 55, 5453-5458.	2.6	216
27	Ultra-Tuning of the Aperture Size in Stiffened ZIF ₈ -Cm Frameworks with Mixed-Linker Strategy for Enhanced CO ₂ /CH ₄ Separation. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 327-331.	7.2	215
28	Hollow fibre perovskite membranes for oxygen separation. <i>Journal of Membrane Science</i> , 2005, 258, 1-4.	4.1	213
29	Simultaneous Production of Hydrogen and Synthesis Gas by Combining Water Splitting with Partial Oxidation of Methane in a Hollow-Fiber Membrane Reactor. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 9341-9344.	7.2	204
30	Honeycomb-like NiMoO ₄ ultrathin nanosheet arrays for high-performance electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6128-6135.	5.2	203
31	A novel MOF/graphene oxide composite GrO@MIL-101 with high adsorption capacity for acetone. <i>Journal of Materials Chemistry A</i> , 2014, 2, 4722-4730.	5.2	202
32	Oppositely Charged Ti ₃ C ₂ T _x MXene Membranes with 2D Nanofluidic Channels for Osmotic Energy Harvesting. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8720-8726.	7.2	196
33	Porous monodisperse V ₂ O ₅ microspheres as cathode materials for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2011, 21, 6365.	6.7	192
34	An inorganic membrane as a separator for lithium-ion battery. <i>Journal of Power Sources</i> , 2011, 196, 8651-8655.	4.0	191
35	CO ₂ -Stable and Cobalt-Free Dual-Phase Membrane for Oxygen Separation. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 759-763.	7.2	190
36	Mechanochemical synthesis of Cu-BTC@GO with enhanced water stability and toluene adsorption capacity. <i>Chemical Engineering Journal</i> , 2016, 298, 191-197.	6.6	182

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37	Dense ceramic oxygen permeable membranes and catalytic membrane reactors. <i>Chemical Engineering Journal</i> , 2013, 220, 185-203.	6.6	177
38	Perovskite Membranes with Vertically Aligned Microchannels for All-Solid-State Lithium Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1801433.	10.2	176
39	Improvement of CO ₂ adsorption on ZIF-8 crystals modified by enhancing basicity of surface. <i>Chemical Engineering Science</i> , 2011, 66, 4878-4888.	1.9	175
40	Oxygen permeation study in a tubular Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3-δ} oxygen permeable membrane. <i>Journal of Membrane Science</i> , 2002, 210, 259-271.	4.1	174
41	Tape-Casting Li _{0.34} La _{0.56} TiO ₃ Ceramic Electrolyte Films Permit High Energy Density of Lithium-Metal Batteries. <i>Advanced Materials</i> , 2020, 32, e1906221.	11.1	173
42	Enhancement of CO ₂ Adsorption and Selectivity on ZIF-8 via Postsynthetic Modification. <i>AIChE Journal</i> , 2013, 59, 2195-2206.	1.8	171
43	Graphene-based nitrogen-doped carbon sandwich nanosheets: a new capacitive process controlled anode material for high-performance sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8630-8635.	5.2	170
44	Enhancement of CO ₂ adsorption on high surface area activated carbon modified by N ₂ , H ₂ and ammonia. <i>Chemical Engineering Journal</i> , 2010, 160, 571-577.	6.6	164
45	High Efficiency Electrochemical Nitrogen Fixation Achieved with a Lower Pressure Reaction System by Changing the Chemical Equilibrium. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15541-15547.	7.2	164
46	Fe ₃ O ₄ submicron spheroids as anode materials for lithium-ion batteries with stable and high electrochemical performance. <i>Journal of Power Sources</i> , 2010, 195, 5379-5381.	4.0	162
47	Ammonia Synthesis Under Ambient Conditions: Selective Electroreduction of Dinitrogen to Ammonia on Black Phosphorus Nanosheets. <i>Angewandte Chemie</i> , 2019, 131, 2638-2642.	1.6	162
48	Fe-N-doped carbon nanofiber and graphene modified separator for lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2018, 333, 564-571.	6.6	161
49	A nano-silica modified polyimide nanofiber separator with enhanced thermal and wetting properties for high safety lithium-ion batteries. <i>Journal of Membrane Science</i> , 2017, 537, 248-254.	4.1	160
50	Investigation on the partial oxidation of methane to syngas in a tubular Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3-δ} membrane reactor. <i>Catalysis Today</i> , 2003, 82, 157-166.	2.2	157
51	Perovskite Hollow-Fiber Membranes for the Production of Oxygen-Enriched Air. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 6906-6909.	7.2	157
52	Three-dimensional porous V ₂ O ₅ cathode with ultra high rate capability. <i>Energy and Environmental Science</i> , 2011, 4, 2854.	15.6	157
53	Graphene sheets as anode materials for Li-ion batteries: preparation, structure, electrochemical properties and mechanism for lithium storage. <i>RSC Advances</i> , 2012, 2, 6792.	1.7	154
54	Investigation of phase structure, sintering, and permeability of perovskite-type Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3-δ} membranes. <i>Journal of Membrane Science</i> , 2005, 262, 20-26.	4.1	150

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55	Structural stability and oxygen permeability of cerium lightly doped BaFeO ₃ ceramic membranes. <i>Solid State Ionics</i> , 2006, 177, 2917-2921.	1.3	150
56	Electron State Confinement of Polysulfides for Highly Stable Sodium Sulfur Batteries. <i>Advanced Materials</i> , 2020, 32, e1907557.	11.1	150
57	Development and Application of Oxygen Permeable Membrane in Selective Oxidation of Light Alkanes. <i>Topics in Catalysis</i> , 2005, 35, 155-167.	1.3	148
58	Porous nitrogen doped carbon sphere as high performance anode of sodium-ion battery. <i>Carbon</i> , 2015, 94, 888-894.	5.4	144
59	Superior cycle performance of Sn@C/graphene nanocomposite as an anode material for lithium-ion batteries. <i>Journal of Solid State Chemistry</i> , 2011, 184, 1400-1404.	1.4	138
60	Antibiotics Separation with MXene Membranes Based on Regularly Stacked High Aspect Ratio Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9751-9756.	7.2	134
61	Ultra-thin titanium carbide (MXene) sheet membranes for high-efficient oil/water emulsions separation. <i>Journal of Membrane Science</i> , 2019, 592, 117361.	4.1	132
62	Direct Decomposition of Nitrous Oxide to Nitrogen by In Situ Oxygen Removal with a Perovskite Membrane. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 2983-2986.	7.2	130
63	Porous SnO ₂ @C/graphene nanocomposite with 3D carbon conductive network as a superior anode material for lithium-ion batteries. <i>Electrochimica Acta</i> , 2014, 116, 103-110.	2.6	130
64	Hierarchical Mesoporous/Macroporous Perovskite La _{0.5} Sr _{0.5} CoO ₃ Nanotubes: A Bifunctional Catalyst with Enhanced Activity and Cycle Stability for Rechargeable Lithium Oxygen Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 22478-22486.	4.0	130
65	A supported Cu(I)@MIL-100(Fe) adsorbent with high CO adsorption capacity and CO/N ₂ selectivity. <i>Chemical Engineering Journal</i> , 2015, 270, 282-289.	6.6	128
66	Tailoring of the trap distribution and crystal field in Cr ³⁺ -doped non-gallate phosphors with near-infrared long-persistence phosphorescence. <i>NPG Asia Materials</i> , 2015, 7, e180-e180.	3.8	127
67	Flexible Polypropylene-Supported ZIF-8 Membranes for Highly Efficient Propene/Propane Separation. <i>Journal of the American Chemical Society</i> , 2020, 142, 20915-20919.	6.6	125
68	Preparation and Adsorption Performance of GrO@Cu-BTC for Separation of CO ₂ /CH ₄ . <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 11176-11184.	1.8	124
69	Nitrogen-doped porous carbon derived from residuary shaddock peel: a promising and sustainable anode for high energy density asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 372-378.	5.2	123
70	A Combined Experimental/Computational Study on the Adsorption of Organosulfur Compounds over Metal-Organic Frameworks from Fuels. <i>Langmuir</i> , 2014, 30, 1080-1088.	1.6	121
71	Porous Na ₃ V ₂ (PO ₄) ₃ @C nanoparticles enwrapped in three-dimensional graphene for high performance sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1180-1185.	5.2	119
72	Ultrafast room temperature synthesis of GrO@HKUST-1 composites with high CO ₂ adsorption capacity and CO ₂ /N ₂ adsorption selectivity. <i>Chemical Engineering Journal</i> , 2016, 303, 231-237.	6.6	117

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73	A Lamellar MXene (Ti ₃ C ₂ T _x)/PSS Composite Membrane for Fast and Selective Lithium-Ion Separation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22265-22269.	7.2	117
74	Low-Voltage Electrolytic Hydrogen Production Derived from Efficient Water and Ethanol Oxidation on Fluorine-Modified FeOOH Anode. <i>ACS Catalysis</i> , 2018, 8, 526-530.	5.5	116
75	Highly enhanced and weakened adsorption properties of two MOFs by water vapor for separation of CO ₂ /CH ₄ and CO ₂ /N ₂ binary mixtures. <i>Chemical Engineering Journal</i> , 2015, 270, 385-392.	6.6	115
76	Superhigh capacity and rate capability of high-level nitrogen-doped graphene sheets as anode materials for lithium-ion batteries. <i>Electrochimica Acta</i> , 2013, 90, 492-497.	2.6	114
77	Novel Cobalt-Free, Noble Metal-Free Oxygen-Permeable 40Pr _{0.6} Sr _{0.4} FeO _{3-δ} â€“60Ce _{0.9} Pr _{0.1} O _{2-δ} Dual-Phase Membrane. <i>Chemistry of Materials</i> , 2012, 24, 2148-2154.		113
78	Catalytic performance of plasma catalysis system with nickel oxide catalysts on different supports for toluene removal: Effect of water vapor. <i>Applied Catalysis B: Environmental</i> , 2014, 156-157, 265-272.	10.8	111
79	Novel cobalt-free oxygen permeable membrane. <i>Chemical Communications</i> , 2004, , 1130.	2.2	110
80	Embedding nano-silicon in graphene nanosheets by plasma assisted milling for high capacity anode materials in lithium ion batteries. <i>Journal of Power Sources</i> , 2014, 268, 610-618.	4.0	110
81	Titanium carbide Ti ₃ C ₂ T _x (MXene) enhanced PAN nanofiber membrane for air purification. <i>Journal of Membrane Science</i> , 2019, 586, 162-169.	4.1	110
82	Enhanced separation performance of a novel composite material GrO@MIL-101 for CO ₂ /CH ₄ binary mixture. <i>Chemical Engineering Journal</i> , 2015, 266, 339-344.	6.6	106
83	Performance of a ceramic membrane reactor with high oxygen flux Ta-containing perovskite for the partial oxidation of methane to syngas. <i>Journal of Membrane Science</i> , 2010, 350, 154-160.	4.1	105
84	Nitrogen-doped bamboo-like carbon nanotubes: promising anode materials for sodium-ion batteries. <i>Chemical Communications</i> , 2015, 51, 16045-16048.	2.2	104
85	Oxidative coupling of methane in Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3-δ} tubular membrane reactors. <i>Catalysis Today</i> , 2005, 104, 160-167.	2.2	100
86	Nano-silicon composites using poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) as elastic polymermatrix and carbon source for lithium-ion battery anode. <i>Journal of Materials Chemistry</i> , 2012, 22, 1094-1099.	6.7	100
87	Ultrathin and highly-ordered CoO nanosheet arrays for lithium-ion batteries with high cycle stability and rate capability. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5625-5630.	5.2	97
88	Aerobic oxidation of benzyl alcohol to benzaldehyde catalyzed by carbon nanotubes without any promoter. <i>Chemical Engineering Journal</i> , 2014, 240, 434-442.	6.6	96
89	Selective gas diffusion in two-dimensional MXene lamellar membranes: insights from molecular dynamics simulations. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11734-11742.	5.2	96
90	High selectivity of oxidative dehydrogenation of ethane to ethylene in an oxygen permeable membrane reactor Electronic supplementary information (ESI) available: experimental section. See http://www.rsc.org/suppdata/cc/b2/b203168jl . <i>Chemical Communications</i> , 2002, , 1468-1469.	2.2	95

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91	Enhancement on the wettability of lithium battery separator toward nonaqueous electrolytes. <i>Journal of Membrane Science</i> , 2016, 503, 25-30.	4.1	95
92	A Two-Dimensional Lamellar Membrane: MXene Nanosheet Stacks. <i>Angewandte Chemie</i> , 2017, 129, 1851-1855.	1.6	95
93	A CO ₂ -tolerance oxygen permeable 60Ce _{0.9} Gd _{0.1} O _{2-δ} 40Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3-δ} dual phase membrane. <i>Journal of Membrane Science</i> , 2013, 443, 124-130.	4.1	94
94	Vapor-enhanced CO ₂ adsorption mechanism of composite PEI@ZIF-8 modified by polyethyleneimine for CO ₂ /N ₂ separation. <i>Chemical Engineering Journal</i> , 2015, 280, 363-369.	6.6	94
95	A high strength, free-standing cathode constructed by regulating graphitization and the pore structure in nitrogen-doped carbon nanofibers for flexible lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6832-6839.	5.2	94
96	Experimental and modeling studies on Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3-δ} (BSCF) tubular membranes for air separation. <i>Journal of Membrane Science</i> , 2004, 243, 405-415.	4.1	92
97	Sol-gel synthesis and electrochemical performance of Li ₄ Ti ₅ O ₁₂ /graphene composite anode for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2011, 509, 7205-7209.	2.8	92
98	Competitive adsorption of water vapor with VOCs dichloroethane, ethyl acetate and benzene on MIL-101(Cr) in humid atmosphere. <i>RSC Advances</i> , 2015, 5, 1827-1834.	1.7	92
99	Asphalt-derived high surface area activated porous carbons for the effective adsorption separation of ethane and ethylene. <i>Chemical Engineering Science</i> , 2017, 162, 192-202.	1.9	92
100	Free-standing sulfur host based on titanium-dioxide-modified porous-carbon nanofibers for lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2017, 356, 172-180.	4.0	91
101	Porous Li ₃ V ₂ (PO ₄) ₃ /C cathode with extremely high-rate capacity prepared by a sol-gel-combustion method for fast charging and discharging. <i>Journal of Power Sources</i> , 2012, 203, 121-125.	4.0	90
102	A thin inorganic composite separator for lithium-ion batteries. <i>Journal of Membrane Science</i> , 2016, 509, 19-26.	4.1	88
103	Self-Assembled Close-Packed MnO ₂ Nanoparticles Anchored on a Polyethylene Separator for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 26274-26282.	4.0	88
104	Grass-like Co ₃ O ₄ nanowire arrays anode with high rate capability and excellent cycling stability for lithium-ion batteries. <i>Electrochimica Acta</i> , 2014, 135, 35-41.	2.6	85
105	Three-dimensional MnO ₂ ultrathin nanosheet aerogels for high-performance Li-O ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2559-2563.	5.2	85
106	Tantalum-doped lithium titanate with enhanced performance for lithium-ion batteries. <i>Journal of Power Sources</i> , 2015, 283, 372-380.	4.0	83
107	Catalytic Membrane Reactors for Partial Oxidation Using Perovskite Hollow Fiber Membranes and for Partial Hydrogenation Using a Catalytic Membrane Contactor. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 2286-2294.	1.8	80
108	A Mo ₅ N ₆ electrocatalyst for efficient Na ₂ S electrodeposition in room-temperature sodium-sulfur batteries. <i>Nature Communications</i> , 2021, 12, 7195.	5.8	80

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109	The sol-gel synthesis of perovskites by an EDTA/citrate complexing method involves nanoscale solid state reactions. <i>Solid State Sciences</i> , 2008, 10, 689-701.	1.5	79
110	High specific capacity of TiO ₂ -graphene nanocomposite as an anode material for lithium-ion batteries in an enlarged potential window. <i>Electrochimica Acta</i> , 2012, 74, 65-72.	2.6	79
111	High rate capability of TiO ₂ /nitrogen-doped graphene nanocomposite as an anode material for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2013, 561, 54-58.	2.8	79
112	A multifunctional separator modified with cobalt and nitrogen co-doped porous carbon nanofibers for Li-S batteries. <i>Journal of Membrane Science</i> , 2018, 548, 247-253.	4.1	78
113	Preparation and hydrogen permeation of BaCe _{0.95} Nd _{0.05} O _{3-δ} membranes. <i>Journal of Membrane Science</i> , 2009, 343, 90-96.	4.1	77
114	Relationship between homogeneity and oxygen permeability of composite membranes. <i>Journal of Membrane Science</i> , 2008, 309, 120-127.	4.1	76
115	A stable and high-capacity anode for lithium-ion battery: Fe ₂ O ₃ wrapped by few layered graphene. <i>Journal of Power Sources</i> , 2015, 288, 314-319.	4.0	76
116	A Dual-Phase Ceramic Membrane with Extremely High H ₂ Permeation Flux Prepared by Autoseparation of a Ceramic Precursor. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10895-10898.	7.2	76
117	Novel C-PDA adsorbents with high uptake and preferential adsorption of ethane over ethylene. <i>Chemical Engineering Science</i> , 2016, 155, 338-347.	1.9	75
118	High performance hydrogenated TiO ₂ nanorod arrays as a photoelectrochemical sensor for organic compounds under visible light. <i>Electrochemistry Communications</i> , 2014, 40, 24-27.	2.3	74
119	A paper-supported inorganic composite separator for high-safety lithium-ion batteries. <i>Journal of Membrane Science</i> , 2018, 553, 10-16.	4.1	74
120	Composite Polymer Electrolyte Incorporating Metal-Organic Framework Nanosheets with Improved Electrochemical Stability for All-Solid-State Li Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 20514-20521.	4.0	73
121	Effect of Nb-doping on electrochemical stability of Li ₄ Ti ₅ O ₁₂ discharged to 0V. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 205-211.	1.2	72
122	A novel Fe ₃ O ₄ -SnO ₂ -graphene ternary nanocomposite as an anode material for lithium-ion batteries. <i>Electrochimica Acta</i> , 2011, 58, 81-88.	2.6	71
123	Facile synthesis of ultrathin-shell graphene hollow spheres for high-performance lithium-ion batteries. <i>Electrochimica Acta</i> , 2014, 139, 96-103.	2.6	71
124	Gas to Liquids: Natural Gas Conversion to Aromatic Fuels and Chemicals in a Hydrogen-Permeable Ceramic Hollow Fiber Membrane Reactor. <i>ACS Catalysis</i> , 2016, 6, 2448-2451.	5.5	70
125	CO ₂ -Tolerant Oxygen-Permeable Fe ₂ O ₃ -Ce _{0.9} Gd _{0.1} O _{2-δ} Dual Phase Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 13508-13517.	1.8	69
126	Tantalum stabilized SrCoO _{3-δ} perovskite membrane for oxygen separation. <i>Journal of Membrane Science</i> , 2011, 368, 159-164.	4.1	69

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127	Partial oxidation of methane to syngas in a perovskite hollow fiber membrane reactor. <i>Catalysis Communications</i> , 2006, 7, 907-912.	1.6	67
128	How $(\text{Ba}_{0.5}\text{Sr}_{0.5})(\text{Fe}_{0.8}\text{Zn}_{0.2})\text{O}_{3-\delta}$ and $(\text{Ba}_{0.5}\text{Sr}_{0.5})(\text{Co}_{0.8}\text{Fe}_{0.2})\text{O}_{3-\delta}$ Perovskites Form via an EDTA/Citric Acid Complexing Method. <i>Advanced Materials</i> , 2007, 19, 2134-2140.	11.1	67
129	Catalytic adsorptive desulfurization of model diesel fuel using TiO ₂ /SBA-15 under mild conditions. <i>Fuel</i> , 2016, 174, 118-125.	3.4	67
130	Enhanced separator wettability by LiTFSI and its application for lithium metal batteries. <i>Journal of Membrane Science</i> , 2017, 524, 315-320.	4.1	67
131	Enhanced water flux through graphitic carbon nitride nanosheets membrane by incorporating polyacrylic acid. <i>AIChE Journal</i> , 2018, 64, 2181-2188.	1.8	66
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