Suqing Wang

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#	Paper	IF	Citations
340	Large reversible capacity of high quality graphene sheets as an anode material for lithium-ion batteries. <i>Electrochimica Acta</i> , 2010 , 55, 3909-3914	6.7	894
339	MXene molecular sieving membranes for highly efficient gas separation. <i>Nature Communications</i> , 2018 , 9, 155	17.4	530
338	A Two-Dimensional Lamellar Membrane: MXene Nanosheet Stacks. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 1825-1829	16.4	518
337	Nitrogen Fixation by Ru Single-Atom Electrocatalytic Reduction. <i>CheM</i> , 2019 , 5, 204-214	16.2	501
336	Molybdenum Carbide Nanodots Enable Efficient Electrocatalytic Nitrogen Fixation under Ambient Conditions. <i>Advanced Materials</i> , 2018 , 30, e1803694	24	436
335	Efficient Electrocatalytic N2 Fixation with MXene under Ambient Conditions. <i>Joule</i> , 2019 , 3, 279-289	27.8	415
334	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	16.4	397
333	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	21.8	390
332	Enhanced cycling performance of Fe3O4graphene nanocomposite as an anode material for lithium-ion batteries. <i>Electrochimica Acta</i> , 2010 , 56, 834-840	6.7	367
331	High reversible capacity of SnO2/graphene nanocomposite as an anode material for lithium-ion batteries. <i>Electrochimica Acta</i> , 2011 , 56, 4532-4539	6.7	344
330	Influence of CO2 on the oxygen permeation performance and the microstructure of perovskite-type (Ba0.5Sr0.5)(Co0.8Fe0.2)O3Imembranes. <i>Journal of Membrane Science</i> , 2007 , 293, 44-52	9.6	310
329	Ammonia Synthesis Under Ambient Conditions: Selective Electroreduction of Dinitrogen to Ammonia on Black Phosphorus Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 2612-	2 6 9: 8	294
328	A 3D Hybrid of Chemically Coupled Nickel Sulfide and Hollow Carbon Spheres for High Performance LithiumBulfur Batteries. <i>Advanced Functional Materials</i> , 2017 , 27, 1702524	15.6	265
327	Advances in Electrocatalytic N2 Reduction Strategies to Tackle the Selectivity Challenge. <i>Small Methods</i> , 2019 , 3, 1800337	12.8	265
326	Flexible SnO2/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, 853-9	11	264
325	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	35.4	260
324	Freestanding, Hydrophilic Nitrogen-Doped Carbon Foams for Highly Compressible All Solid-State Supercapacitors. <i>Advanced Materials</i> , 2016 , 28, 5997-6002	24	233

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323	2D MoN-VN Heterostructure To Regulate Polysulfides for Highly Efficient Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 16703-16707	16.4	224
322	A Cobalt-Free Oxygen-Permeable Membrane Based on the Perovskite-Type Oxide Ba0.5Sr0.5Zn0.2Fe0.8O3[[Advanced Materials, 2005, 17, 1785-1788]	24	221
321	Electrochemical reduction of nitrate to ammonia via direct eight-electron transfer using a copper folecular solid catalyst. <i>Nature Energy</i> , 2020 , 5, 605-613	62.3	220
320	Effective ion sieving with Ti3C2Tx MXene membranes for production of drinking water from seawater. <i>Nature Sustainability</i> , 2020 , 3, 296-302	22.1	204
319	Niobium doped lithium titanate as a high rate anode material for Li-ion batteries. <i>Electrochimica Acta</i> , 2010 , 55, 5453-5458	6.7	196
318	Hollow fibre perovskite membranes for oxygen separation. <i>Journal of Membrane Science</i> , 2005 , 258, 1-4	9.6	189
317	CO2-stable and cobalt-free dual-phase membrane for oxygen separation. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 759-63	16.4	178
316	Water Transport with Ultralow Friction through Partially Exfoliated g-C N Nanosheet Membranes with Self-Supporting Spacers. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 8974-8980	16.4	177
315	Porous monodisperse V2O5 microspheres as cathode materials for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2011 , 21, 6365		176
314	Honeycomb-like NiMoO4 ultrathin nanosheet arrays for high-performance electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 6128-6135	13	175
313	An inorganic membrane as a separator for lithium-ion battery. <i>Journal of Power Sources</i> , 2011 , 196, 865	188655	5 172
312	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, 9341-4	16.4	172
311	A novel MOF/graphene oxide composite GrO@MIL-101 with high adsorption capacity for acetone. Journal of Materials Chemistry A, 2014 , 2, 4722-4730	13	165
310	Fe3O4 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	8.9	156
309	Oxygen permeation study in a tubular Ba0.5Sr0.5Co0.8Fe0.2O3-lbxygen permeable membrane. Journal of Membrane Science, 2002 , 210, 259-271	9.6	155
308	Dense ceramic oxygen permeable membranes and catalytic membrane reactors. <i>Chemical Engineering Journal</i> , 2013 , 220, 185-203	14.7	147
307	Enhancement of CO2 adsorption on high surface area activated carbon modified by N2, H2 and ammonia. <i>Chemical Engineering Journal</i> , 2010 , 160, 571-577	14.7	145
306	Investigation on the partial oxidation of methane to syngas in a tubular Ba0.5Sr0.5Co0.8Fe0.2O3D membrane reactor. <i>Catalysis Today</i> , 2003 , 82, 157-166	5.3	145

305	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	13	145
304	Development and Application of Oxygen Permeable Membrane in Selective Oxidation of Light Alkanes. <i>Topics in Catalysis</i> , 2005 , 35, 155-167	2.3	141
303	Three-dimensional porous V2O5 cathode with ultra high rate capability. <i>Energy and Environmental Science</i> , 2011 , 4, 2854	35.4	140
302	Enhancement of CO2 Adsorption and CO2/N2 Selectivity on ZIF-8 via Postsynthetic Modification. <i>AICHE Journal</i> , 2013 , 59, 2195-2206	3.6	137
301	Perovskite Membranes with Vertically Aligned Microchannels for All-Solid-State Lithium Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1801433	21.8	136
300	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	3.7	136
299	Improvement of CO2 adsorption on ZIF-8 crystals modified by enhancing basicity of surface. <i>Chemical Engineering Science</i> , 2011 , 66, 4878-4888	4.4	135
298	Perovskite hollow-fiber membranes for the production of oxygen-enriched air. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 6906-9	16.4	135
297	Structural stability and oxygen permeability of cerium lightly doped BaFeO3leeramic membranes. <i>Solid State Ionics</i> , 2006 , 177, 2917-2921	3.3	132
296	Mechanochemical synthesis of Cu-BTC@GO with enhanced water stability and toluene adsorption capacity. <i>Chemical Engineering Journal</i> , 2016 , 298, 191-197	14.7	132
295	Paralyzed membrane: Current-driven synthesis of a metal-organic framework with sharpened propene/propane separation. <i>Science Advances</i> , 2018 , 4, eaau1393	14.3	132
294	Porous nitrogen doped carbon sphere as high performance anode of sodium-ion battery. <i>Carbon</i> , 2015 , 94, 888-894	10.4	130
293	Investigation of phase structure, sintering, and permeability of perovskite-type Ba0.5Sr0.5Co0.8Fe0.2O3Imembranes. <i>Journal of Membrane Science</i> , 2005 , 262, 20-26	9.6	130
292	Ultra-Tuning of the Aperture Size in Stiffened ZIF-8_Cm Frameworks with Mixed-Linker Strategy for Enhanced CO /CH Separation. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 327-331	16.4	127
291	Self-Crosslinked MXene (TiCT) Membranes with Good Antiswelling Property for Monovalent Metal Ion Exclusion. <i>ACS Nano</i> , 2019 , 13, 10535-10544	16.7	126
290	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	3.3	123
289	Porous SnO2@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	6.7	122
288	Ammonia Synthesis Under Ambient Conditions: Selective Electroreduction of Dinitrogen to Ammonia on Black Phosphorus Nanosheets. <i>Angewandte Chemie</i> , 2019 , 131, 2638-2642	3.6	121

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287	Fe-N-doped carbon nanofiber and graphene modified separator for lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2018 , 333, 564-571	14.7	117
286	Hierarchical Mesoporous/Macroporous Perovskite La0.5Sr0.5CoO3-x Nanotubes: A Bifunctional Catalyst with Enhanced Activity and Cycle Stability for Rechargeable Lithium Oxygen Batteries. <i>ACS Applied Materials & Discourse (Materials & Discourse)</i> 1, 22478-86	9.5	114
285	Direct decomposition of nitrous oxide to nitrogen by in situ oxygen removal with a perovskite membrane. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 2983-6	16.4	114
284	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	9.6	113
283	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, 15541-1554	1 6.4	112
282	Novel Cobalt-Free, Noble Metal-Free Oxygen-Permeable 40Pr0.6Sr0.4FeO3- B 0Ce0.9Pr0.1O2II Dual-Phase Membrane. <i>Chemistry of Materials</i> , 2012 , 24, 2148-2154	9.6	104
281	Novel cobalt-free oxygen permeable membrane. Chemical Communications, 2004, 1130-1	5.8	103
280	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	13	102
279	Preparation and Adsorption Performance of [email[protected] for Separation of CO2/CH4. <i>Industrial & Discourse Engineering Chemistry Research</i> , 2014 , 53, 11176-11184	3.9	101
278	Tape-Casting Li La TiO Ceramic Electrolyte Films Permit High Energy Density of Lithium-Metal Batteries. <i>Advanced Materials</i> , 2020 , 32, e1906221	24	100
277	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	8.9	99
276	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	9.6	98
275	Tailoring of the trap distribution and crystal field in Cr3+-doped non-gallate phosphors with near-infrared long-persistence phosphorescence. <i>NPG Asia Materials</i> , 2015 , 7, e180-e180	10.3	97
274	Porous Na3V2(PO4)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	13	95
273	A combined experimental/computational study on the adsorption of organosulfur compounds over metal-organic frameworks from fuels. <i>Langmuir</i> , 2014 , 30, 1080-8	4	95
272	A supported Cu(I)@MIL-100(Fe) adsorbent with high CO adsorption capacity and CO/N2 selectivity. <i>Chemical Engineering Journal</i> , 2015 , 270, 282-289	14.7	95
271	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	6.7	95
270	High selectivity of oxidative dehydrogenation of ethane to ethylene in an oxygen permeable membrane reactor. <i>Chemical Communications</i> , 2002 , 1468-9	5.8	94

269	Nitrogen-doped bamboo-like carbon nanotubes: promising anode materials for sodium-ion batteries. <i>Chemical Communications</i> , 2015 , 51, 16045-8	5.8	92
268	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	13	90
267	Oxidative coupling of methane in Ba0.5Sr0.5Co0.8Fe0.2O3IL ubular membrane reactors. <i>Catalysis Today</i> , 2005 , 104, 160-167	5.3	89
266	Enhanced separation performance of a novel composite material GrO@MIL-101 for CO2/CH4 binary mixture. <i>Chemical Engineering Journal</i> , 2015 , 266, 339-344	14.7	88
265	Oppositely Charged Ti C T MXene Membranes with 2D Nanofluidic Channels for Osmotic Energy Harvesting. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8720-8726	16.4	88
264	Experimental and modeling studies on Ba0.5Sr0.5Co0.8Fe0.2O3[[BSCF] tubular membranes for air separation. <i>Journal of Membrane Science</i> , 2004 , 243, 405-415	9.6	88
263	Electron-State Confinement of Polysulfides for Highly Stable Sodium-Sulfur Batteries. <i>Advanced Materials</i> , 2020 , 32, e1907557	24	87
262	Porous Li3V2(PO4)3/C cathode with extremely high-rate capacity prepared by a solgel-combustion method for fast charging and discharging. <i>Journal of Power Sources</i> , 2012 , 203, 121-	125	87
261	Solgel synthesis and electrochemical performance of Li4Ti5O12/graphene composite anode for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 7205-7209	5.7	87
260	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	21.8	86
259	Nano-silicon composites using poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) as elastic polymer matrix and carbon source for lithium-ion battery anode. <i>Journal of Materials Chemistry</i> , 2012 , 22, 1094-1099		85
258	Ultrafast room temperature synthesis of GrO@HKUST-1 composites with high CO2 adsorption capacity and CO2/N2 adsorption selectivity. <i>Chemical Engineering Journal</i> , 2016 , 303, 231-237	14.7	83
257	Aerobic oxidation of benzyl alcohol to benzaldehyde catalyzed by carbon nanotubes without any promoter. <i>Chemical Engineering Journal</i> , 2014 , 240, 434-442	14.7	80
256	A high strength, free-standing cathode constructed by regulating graphitization and the pore structure in nitrogen-doped carbon nanofibers for flexible lithium fulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 6832-6839	13	79
255	Three-dimensional MnO2 ultrathin nanosheet aerogels for high-performance LiD2 batteries. Journal of Materials Chemistry A, 2015 , 3, 2559-2563	13	79
254	A CO2-tolerance oxygen permeable 60Ce0.9Gd0.1O2월0Ba0.5Sr0.5Co0.8Fe0.2O3월ual phase membrane. <i>Journal of Membrane Science</i> , 2013 , 443, 124-130	9.6	78
253	Highly enhanced and weakened adsorption properties of two MOFs by water vapor for separation of CO2/CH4 and CO2/N2 binary mixtures. <i>Chemical Engineering Journal</i> , 2015 , 270, 385-392	14.7	77
252	High rate capability of TiO2/nitrogen-doped graphene nanocomposite as an anode material for lithium[bn batteries. <i>Journal of Alloys and Compounds</i> , 2013 , 561, 54-58	5.7	77

A Two-Dimensional Lamellar Membrane: MXene Nanosheet Stacks. Angewandte Chemie, 2017, 129, 1851; 685575 251 Free-standing sulfur host based on titanium-dioxide-modified porous-carbon nanofibers for 8.9 250 75 lithium-sulfur batteries. Journal of Power Sources, 2017, 356, 172-180 Grass-like Co3O4 nanowire arrays anode with high rate capability and excellent cycling stability for 6.7 249 74 lithium-ion batteries. Electrochimica Acta, 2014, 135, 35-41 Relationship between homogeneity and oxygen permeability of composite membranes. Journal of 248 9.6 74 Membrane Science, 2008, 309, 120-127 Low-Voltage Electrolytic Hydrogen Production Derived from Efficient Water and Ethanol Oxidation 247 13.1 74 on Fluorine-Modified FeOOH Anode. ACS Catalysis, 2018, 8, 526-530 Competitive adsorption of water vapor with VOCs dichloroethane, ethyl acetate and benzene on 246 3.7 73 MIL-101(Cr) in humid atmosphere. RSC Advances, 2015, 5, 1827-1834 Catalytic Membrane Reactors for Partial Oxidation Using Perovskite Hollow Fiber Membranes and for Partial Hydrogenation Using a Catalytic Membrane Contactor. Industrial & Engineering 245 3.9 73 Chemistry Research, 2007, 46, 2286-2294 Vapor-enhanced CO2 adsorption mechanism of composite PEI@ZIF-8 modified by 72 244 14.7 polyethyleneimine for CO2/N2 separation. Chemical Engineering Journal, 2015, 280, 363-369 Enhancement on the wettability of lithium battery separator toward nonaqueous electrolytes. 9.6 243 71 Journal of Membrane Science, 2016, 503, 25-30 Tantalum-doped lithium titanate with enhanced performance for lithium-ion batteries. Journal of 8.9 242 70 Power Sources, 2015, 283, 372-380 High performance hydrogenated TiO2 nanorod arrays as a photoelectrochemical sensor for organic 241 5.1 69 compounds under visible light. Electrochemistry Communications, 2014, 40, 24-27 The solgel synthesis of perovskites by an EDTA/citrate complexing method involves nanoscale 240 69 3.4 solid state reactions. Solid State Sciences, 2008, 10, 689-701 Asphalt-derived high surface area activated porous carbons for the effective adsorption separation 68 239 4.4 of ethane and ethylene. Chemical Engineering Science, 2017, 162, 192-202 A stable and high-capacity anode for lithium-ion battery: Fe 2 O 3 wrapped by few layered 238 8.9 68 graphene. Journal of Power Sources, 2015, 288, 314-319 A thin inorganic composite separator for lithium-ion batteries. Journal of Membrane Science, 2016, 68 9.6 237 509, 19-26 High specific capacity of TiO2-graphene nanocomposite as an anode material for lithium-ion 236 6.7 68 batteries in an enlarged potential window. Electrochimica Acta, 2012, 74, 65-72 A novel Fe3O4BnO2Braphene ternary nanocomposite as an anode material for lithium-ion 68 6.7 235 batteries. Electrochimica Acta, 2011, 58, 81-88 Antibiotics Separation with MXene Membranes Based on Regularly Stacked High-Aspect-Ratio 234 67 Nanosheets. Angewandte Chemie - International Edition, 2020, 59, 9751-9756

233	Preparation and hydrogen permeation of BaCe0.95Nd0.05O3Imembranes. <i>Journal of Membrane Science</i> , 2009 , 343, 90-96	9.6	67
232	Effect of Nb-doping on electrochemical stability of Li4Ti5O12 discharged to 0 V. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 205-211	2.6	65
231	Self-Assembled Close-Packed MnO Nanoparticles Anchored on a Polyethylene Separator for Lithium-Sulfur Batteries. <i>ACS Applied Materials & District Research</i> 10, 26274-26282	9.5	64
230	Titanium carbide Ti3C2Tx (MXene) enhanced PAN nanofiber membrane for air purification. <i>Journal of Membrane Science</i> , 2019 , 586, 162-169	9.6	63
229	Tantalum stabilized SrCoO3lperovskite membrane for oxygen separation. <i>Journal of Membrane Science</i> , 2011 , 368, 159-164	9.6	63
228	Partial oxidation of methane to syngas in a perovskite hollow fiber membrane reactor. <i>Catalysis Communications</i> , 2006 , 7, 907-912	3.2	63
227	Facile synthesis of ultrathin-shell graphene hollow spheres for high-performance lithium-ion batteries. <i>Electrochimica Acta</i> , 2014 , 139, 96-103	6.7	62
226	Innentitelbild: Fein-Tuning der PorengrB in versteiften ZIF-8_Cm-GerBten durch eine Mixed-Linker-Strategie filverbesserte permeative CO2/CH4-Trennung (Angew. Chem. 1/2019). <i>Angewandte Chemie</i> , 2019 , 131, 2-2	3.6	61
225	CO2-Tolerant Oxygen-Permeable Fe2O3-Ce0.9Gd0.1O2-Dual Phase Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 13508-13517	3.9	61
224	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	13	61
223	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	13.1	60
222	A multifunctional separator modified with cobalt and nitrogen co-doped porous carbon nanofibers for LiB batteries. <i>Journal of Membrane Science</i> , 2018 , 548, 247-253	9.6	60
221	Novel C-PDA adsorbents with high uptake and preferential adsorption of ethane over ethylene. <i>Chemical Engineering Science</i> , 2016 , 155, 338-347	4.4	58
220	How (Ba0.5Sr0.5)(Fe0.8Zn0.2)O3Iand (Ba0.5Sr0.5)(Co0.8Fe0.2)O3IPerovskites Form via an EDTA/Citric Acid Complexing Method. <i>Advanced Materials</i> , 2007 , 19, 2134-2140	24	58
219	Free-standing and bendable carbon nanotubes/TiO2 nanofibres composite electrodes for flexible lithium ion batteries. <i>Electrochimica Acta</i> , 2013 , 104, 41-47	6.7	57
218	Catalytic adsorptive desulfurization of model diesel fuel using TiO2/SBA-15 under mild conditions. <i>Fuel</i> , 2016 , 174, 118-125	7.1	56
217	A CO2-stable reduction-tolerant Nd-containing dual phase membrane for oxyfuel CO2 capture. Journal of Materials Chemistry A, 2014 , 2, 7780-7787	13	55
216	Efficient Energy Transfer and Enhanced Infrared Emission in Er-Doped ZnO-SiO2 Composites. Journal of Physical Chemistry C, 2012 , 116, 13458-13462	3.8	55

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215	A Dual-Phase Ceramic Membrane with Extremely High H2 Permeation Flux Prepared by Autoseparation of a Ceramic Precursor. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 10895-8	16.4	55	
214	Ultra-thin titanium carbide (MXene) sheet membranes for high-efficient oil/water emulsions separation. <i>Journal of Membrane Science</i> , 2019 , 592, 117361	9.6	54	
213	Preparation and oxygen permeation of U-shaped perovskite hollow-fiber membranes. <i>AICHE Journal</i> , 2011 , 57, 975-984	3.6	54	
212	Highly stable PtP alloy nanotube arrays as a catalyst for the oxygen reduction reaction in acidic medium. <i>Chemical Science</i> , 2015 , 6, 3211-3216	9.4	53	
211	Influence of the preparation methods on the microstructure and oxygen permeability of a CO2-stable dual phase membrane. <i>AICHE Journal</i> , 2011 , 57, 2738-2745	3.6	53	
210	Performance of through-hole anodic aluminum oxide membrane as a separator for lithium-ion battery. <i>Journal of Membrane Science</i> , 2014 , 461, 22-27	9.6	52	
209	Oxygen permeation study of perovskite hollow fiber membranes. <i>Catalysis Today</i> , 2005 , 104, 126-130	5.3	52	
208	A paper-supported inorganic composite separator for high-safety lithium-ion batteries. <i>Journal of Membrane Science</i> , 2018 , 553, 10-16	9.6	51	
207	Hollow fiber membrane reactors for the oxidative activation of ethane. <i>Catalysis Today</i> , 2006 , 118, 98-1	05 33	51	
206	Novel nitrogen-rich porous carbon spheres as a high-performance anode material for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 16617-16622	13	50	
205	Introduction of metal precursors by electrodeposition for the in situ growth of metal b rganic framework membranes on porous metal substrates. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 1948-195	51 ¹³	49	
204	Oxygen production at low temperature using dense perovskite hollow fiber membranes. <i>Journal of Membrane Science</i> , 2008 , 322, 214-217	9.6	49	
203	Li3V2(PO4)3@C/graphene composite with improved cycling performance as cathode material for lithium-ion batteries. <i>Electrochimica Acta</i> , 2013 , 91, 108-113	6.7	48	
202	Oxygen selective ceramic hollow fiber membranes for partial oxidation of methane. <i>AICHE Journal</i> , 2009 , 55, 2657-2664	3.6	47	
201	Comprehensive Understanding of the Thriving Ambient Electrochemical Nitrogen Reduction Reaction. <i>Advanced Materials</i> , 2021 , 33, e2007650	24	47	
200	Porous SiO2 as a separator to improve the electrochemical performance of spinel LiMn2O4 cathode. <i>Journal of Membrane Science</i> , 2014 , 449, 169-175	9.6	46	
199	Partial oxidation of methane to syngas in BaCe0.15Fe0.85O3Imembrane reactors. <i>Catalysis Letters</i> , 2006 , 111, 179-185	2.8	46	
198	Flexible Polypropylene-Supported ZIF-8 Membranes for Highly Efficient Propene/Propane Separation. <i>Journal of the American Chemical Society</i> , 2020 , 142, 20915-20919	16.4	46	

197	Interconnected Fe2O3 nanosheet arrays as high-performance anode materials for lithium-ion batteries. <i>Electrochimica Acta</i> , 2016 , 192, 407-413	6.7	45
196	Enhanced separator wettability by LiTFSI and its application for lithium metal batteries. <i>Journal of Membrane Science</i> , 2017 , 524, 315-320	9.6	45
195	Highly effective NO decomposition by in situ removal of inhibitor oxygen using an oxygen transporting membrane. <i>Chemical Communications</i> , 2009 , 6738-40	5.8	44
194	Continuous Oxygen Ion Transfer Medium as a Catalyst for High Selective Oxidative Dehydrogenation of Ethane. <i>Catalysis Letters</i> , 2002 , 84, 101-106	2.8	44
193	Coaxial Co 3 O 4 @polypyrrole core-shell nanowire arrays for high performance lithium ion batteries. <i>Electrochimica Acta</i> , 2016 , 209, 192-200	6.7	44
192	Enhanced water flux through graphitic carbon nitride nanosheets membrane by incorporating polyacrylic acid. <i>AICHE Journal</i> , 2018 , 64, 2181-2188	3.6	43
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