

Suqing Wang

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/3792612/suqing-wang-publications-by-year.pdf>

Version: 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

340
papers

22,916
citations

83
h-index

137
g-index

358
ext. papers

26,834
ext. citations

9.3
avg, IF

7.47
L-index

#	Paper	IF	Citations
340	MXene Membranes for Salinity Gradient Energy Conversion 2022 , 157-173		
339	Types of 2D Material-Based Membranes 2022 , 9-24		
338	MXene Membranes for Ion Separation 2022 , 105-128		
337	MXene Membranes for Nanofiltration 2022 , 43-59		
336	MXene Membranes for the Isolation of Antibiotics 2022 , 61-88		
335	MXene Nanosheets and Membranes 2022 , 25-42		
334	Scale-Up of MXene Membranes 2022 , 175-195		
333	MXene -Based Membranes for Gas Separation 2022 , 89-104		
332	MXene Membrane for Oil/Water Emulsion Separation 2022 , 129-155		
331	Fast fabrication of freestanding MXene-ZIF-8 dual-layered membranes for H ₂ /CO ₂ separation. <i>Journal of Membrane Science</i> , 2022 , 642, 119982	9.6	7
330	MXene assisted preparation of well-intergrown ZIF-67 membrane for helium separation. <i>Journal of Membrane Science</i> , 2022 , 652, 120432	9.6	0
329	N-doped porous carbon nanofibers inlaid with hollow Co ₃ O ₄ nanoparticles as an efficient bifunctional catalyst for rechargeable Li-O ₂ batteries. <i>Chinese Journal of Catalysis</i> , 2022 , 43, 1511-1519	11.3	2
328	Simultaneous electrochemical exfoliation and covalent functionalization of MoS membrane for ion sieving. <i>Advanced Materials</i> , 2022 , e2201416	24	3
327	Porous Stainless Steel Hollow Fiber-Supported ZIF-8 Membranes via FCDS for Hydrogen/Carbon Dioxide Separation. <i>Separation and Purification Technology</i> , 2022 , 121365	8.3	1
326	Catalytic Oxidation of KS via Atomic Co and Pyridinic N Synergy in Potassium-Sulfur Batteries. <i>Journal of the American Chemical Society</i> , 2021 , 143, 16902-16907	16.4	11
325	High safety separators for rechargeable lithium batteries. <i>Science China Chemistry</i> , 2021 , 64, 1131-1156	7.9	4
324	Co Se Quantum Dots as an Ultrastable Host Material for Potassium-Ion Intercalation. <i>Advanced Materials</i> , 2021 , 33, e2102164	24	11

323	Improving diffusion kinetics and phase stability of LiCoO ₂ via surface modification at elevated voltage. <i>Electrochimica Acta</i> , 2021 , 380, 138227	6.7	4
322	MXene-Based Membranes for Separation Applications. <i>Small Science</i> , 2021 , 1, 2100013		9
321	Reducing anisotropic effects on oxygen separation performance of K ₂ NiF ₄ -type membranes by adjusting grain size. <i>Journal of Membrane Science</i> , 2021 , 618, 118628	9.6	7
320	Fast electrophoretic preparation of large-area two-dimensional titanium carbide membranes for ion sieving. <i>Chemical Engineering Journal</i> , 2021 , 408, 127806	14.7	20
319	Nanocomposite with fast Li ⁺ conducting percolation network: Solid polymer electrolyte with Li ⁺ non-conducting filler. <i>Nano Energy</i> , 2021 , 79, 105475	17.1	17
318	Graphene-quantum-dot-composited platinum nanotube arrays as a dual efficient electrocatalyst for the oxygen reduction reaction and methanol electro-oxidation. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 9609-9615	13	11
317	Recent progress of two-dimensional nanosheet membranes and composite membranes for separation applications. <i>Frontiers of Chemical Science and Engineering</i> , 2021 , 15, 793-819	4.5	11
316	Proton conducting membranes for hydrogen and ammonia production. <i>Reaction Chemistry and Engineering</i> , 2021 , 6, 1739-1770	4.9	1
315	Catalytic ceramic oxygen ionic conducting membrane reactors for ethylene production. <i>Reaction Chemistry and Engineering</i> , 2021 , 6, 1327-1341	4.9	2
314	Competing hydrogen evolution reaction: a challenge in electrocatalytic nitrogen fixation. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 5954-5969	7.8	7
313	Comprehensive Understanding of the Thriving Ambient Electrochemical Nitrogen Reduction Reaction. <i>Advanced Materials</i> , 2021 , 33, e2007650	24	47
312	Supported MXene/GO Composite Membranes with Suppressed Swelling for Metal Ion Sieving. <i>Membranes</i> , 2021 , 11,	3.8	2
311	Covalent Organic Framework Membranes for Efficient Chemicals Separation. <i>Small Structures</i> , 2021 , 2, 2100061	8.7	8
310	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	16.4	18
309	Graphene oxide-modified g-C ₃ N ₄ nanosheet membranes for efficient hydrogen purification. <i>Chemical Engineering Journal</i> , 2021 , 420, 129574	14.7	25
308	A Lamellar MXene (Ti ₃ C ₂ T _x)/PSS Composite Membrane for Fast and Selective Lithium-Ion Separation. <i>Angewandte Chemie</i> , 2021 , 133, 22439-22443	3.6	4
307	A MoN electrocatalyst for efficient NaS electrodeposition in room-temperature sodium-sulfur batteries. <i>Nature Communications</i> , 2021 , 12, 7195	17.4	9
306	Antibiotics Separation with MXene Membranes Based on Regularly Stacked High-Aspect-Ratio Nanosheets. <i>Angewandte Chemie</i> , 2020 , 132, 9838-9843	3.6	7

305	Antibiotics Separation with MXene Membranes Based on Regularly Stacked High-Aspect-Ratio Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 9751-9756	16.4	67
304	Bimetallic ions regulate pore size and chemistry of zeolites for selective adsorption of ethylene from ethane. <i>Chemical Engineering Science</i> , 2020 , 220, 115636	4.4	13
303	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	22.1	204
302	Enhanced air filtration performance under high-humidity condition through electrospun membranes with optimized structure. <i>Chinese Journal of Chemical Engineering</i> , 2020 , 28, 1788-1795	3.2	8
301	Electron-State Confinement of Polysulfides for Highly Stable Sodium-Sulfur Batteries. <i>Advanced Materials</i> , 2020 , 32, e1907557	24	87
300	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
299	Oppositely Charged Ti ₃ C ₂ T _x MXene Membranes with 2D Nanofluidic Channels for Osmotic Energy Harvesting. <i>Angewandte Chemie</i> , 2020 , 132, 8798-8804	3.6	34
298	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	9.5	34
297	Heterostructured CoS ₂ /NiS ₂ nanoparticles encapsulated in bamboo-like carbon nanotubes as a high performance anode for sodium ion batteries. <i>New Journal of Chemistry</i> , 2020 , 44, 10404-10409	3.6	7
296	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
295	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
294	In situ coupling of CoP with MoO ₂ for enhanced hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 16018-16023	13	10
293	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	62.3	220
292	Balancing the Grain Boundary Structure and the Framework Flexibility through Bimetallic Metal-Organic Framework (MOF) Membranes for Gas Separation. <i>Journal of the American Chemical Society</i> , 2020 , 142, 9582-9586	16.4	37
291	Lithium-Metal Batteries: Tape-Casting Li _{0.34} La _{0.56} TiO ₃ Ceramic Electrolyte Films Permit High Energy Density of Lithium-Metal Batteries (Adv. Mater. 6/2020). <i>Advanced Materials</i> , 2020 , 32, 2070045	24	2
290	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
289	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
288	Innentitelbild: Ammonia Synthesis Under Ambient Conditions: Selective Electroreduction of Dinitrogen to Ammonia on Black Phosphorus Nanosheets (Angew. Chem. 9/2019). <i>Angewandte Chemie</i> , 2019 , 131, 2550-2550	3.6	

287	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	9.6	63
286	Surface coating with Li-Ti-O to improve the electrochemical performance of Ni-rich cathode material. <i>Applied Surface Science</i> , 2019 , 489, 913-921	6.7	22
285	Enhanced antipressure ability through graphene oxide membrane by intercalating g-C ₃ N ₄ nanosheets for water purification. <i>AIChE Journal</i> , 2019 , 65, e16699	3.6	26
284	Advanced Non-metallic Catalysts for Electrochemical Nitrogen Reduction under Ambient Conditions. <i>Chemistry - A European Journal</i> , 2019 , 25, 12464-12485	4.8	40
283	Reducing the Interfacial Resistance in All-Solid-State Lithium Batteries Based on Oxide Ceramic Electrolytes. <i>ChemElectroChem</i> , 2019 , 6, 2970-2983	4.3	21
282	Innentitelbild: Fein-Tuning der PorengröÙ in versteiften ZIF-8_Cm-GeräÙten durch eine Mixed-Linker-Strategie fñverbesserte permeative CO ₂ /CH ₄ -Trennung (Angew. Chem. 1/2019). <i>Angewandte Chemie</i> , 2019 , 131, 2-2	3.6	61
281	Hydrogen permeability through Nd _{5.5} W _{0.35} Mo _{0.5} Nb _{0.15} O _{11.25} -mixed protonic-electronic conducting membrane. <i>Journal of Membrane Science</i> , 2019 , 579, 33-39	9.6	12
280	Metalloid phosphorus cation doping: An effective strategy to improve permeability and stability through the hydrogen permeable membranes. <i>Separation and Purification Technology</i> , 2019 , 210, 320-326	8.3	6
279	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
278	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	16.4	112
277	High Efficiency Electrochemical Nitrogen Fixation Achieved with a Lower Pressure Reaction System by Changing the Chemical Equilibrium. <i>Angewandte Chemie</i> , 2019 , 131, 15687-15693	3.6	19
276	Frontispiece: Advanced Non-metallic Catalysts for Electrochemical Nitrogen Reduction under Ambient Conditions. <i>Chemistry - A European Journal</i> , 2019 , 25,	4.8	1
275	Evaluation of hydrogen separation performance of Ni-BaCe _{0.85} Fe _{0.15} O ₃ -Permet membranes. <i>Ceramics International</i> , 2019 , 45, 10120-10125	5.1	15
274	Double-layer carbon protected CoS nanoparticles as an advanced anode for sodium-ion batteries.. <i>RSC Advances</i> , 2019 , 9, 40956-40960	3.7	5
273	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
272	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	16.4	294
271	Various influence of surface modification on permeability and phase stability through an oxygen permeable membrane. <i>Journal of Membrane Science</i> , 2019 , 573, 588-594	9.6	12
270	Fein-Tuning der PorengröÙ in versteiften ZIF-8_Cm-GeräÙten durch eine Mixed-Linker-Strategie fñverbesserte permeative CO ₂ /CH ₄ -Trennung. <i>Angewandte Chemie</i> , 2019 , 131, 333-337	3.6	14

- 269 Nitrogen Fixation by Ru Single-Atom Electrocatalytic Reduction. *Chem*, **2019**, 5, 204-214 16.2 501
- 268 Advances in Electrocatalytic N₂ Reduction Strategies to Tackle the Selectivity Challenge. *Small Methods*, **2019**, 3, 1800337 12.8 265
- 267 Efficient Electrocatalytic N₂ Fixation with MXene under Ambient Conditions. *Joule*, **2019**, 3, 279-289 27.8 415
- 266 Ultra-Tuning of the Aperture Size in Stiffened ZIF-8_{Cm} Frameworks with Mixed-Linker Strategy for Enhanced CO₂/CH₄ Separation. *Angewandte Chemie - International Edition*, **2019**, 58, 327-331 16.4 127
- 265 Ration design of porous Mn-doped Na₃V₂(PO₄)₃ cathode for high rate and super stable sodium-ion batteries. *Electrochimica Acta*, **2019**, 295, 262-269 6.7 40
- 264 Solvent-free route for metal-organic framework membranes growth aiming for efficient gas separation. *AIChE Journal*, **2019**, 65, 712-722 3.6 15
- 263 Tailoring hydrogen separation performance through the ceramic lanthanum tungstate membranes by chlorine doping. *Journal of Membrane Science*, **2019**, 573, 117-125 9.6 9
- 262 Flexible free-standing SnS₂/carbon nanofibers anode for high performance sodium-ion batteries. *Materials Letters*, **2019**, 234, 121-124 3.3 22
- 261 A paper-supported inorganic composite separator for high-safety lithium-ion batteries. *Journal of Membrane Science*, **2018**, 553, 10-16 9.6 51
- 260 A high energy and power sodium-ion hybrid capacitor based on nitrogen-doped hollow carbon nanowires anode. *Journal of Power Sources*, **2018**, 382, 116-121 8.9 30
- 259 Highly efficient H₂/CO₂ separation via an ultrathin metal-organic framework membrane. *Chemical Engineering Science*, **2018**, 182, 180-188 4.4 33
- 258 Effect of Pt layer on the hydrogen permeation property of La_{5.5}W_{0.45}Nb_{0.15}Mo_{0.4}O_{11.25} membrane. *Journal of Membrane Science*, **2018**, 552, 61-67 9.6 11
- 257 PdO/Pd-CeO₂ hollow spheres with fresh Pd surface for enhancing formic acid oxidation. *Chemical Engineering Journal*, **2018**, 347, 193-201 14.7 26
- 256 Anion doping CO₂-stable oxygen permeable membranes for syngas production. *Chemical Engineering Journal*, **2018**, 347, 84-90 14.7 24
- 255 High oxygen permeation through A-site deficient K₂NiF₄-type oxide hollow-fiber membrane. *Ceramics International*, **2018**, 44, 10852-10857 5.1 15
- 254 MXene molecular sieving membranes for highly efficient gas separation. *Nature Communications*, **2018**, 9, 155 17.4 530
- 253 Enhanced water flux through graphitic carbon nitride nanosheets membrane by incorporating polyacrylic acid. *AIChE Journal*, **2018**, 64, 2181-2188 3.6 43
- 252 Heteroatom doping and activation of carbon nanofibers enabling ultrafast and stable sodium storage. *Electrochimica Acta*, **2018**, 276, 304-310 6.7 27

251	High performance hybrid Mg-Li ion batteries with conversion cathodes for low cost energy storage. <i>Electrochimica Acta</i> , 2018 , 265, 175-183	6.7	20
250	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
249	Confined heat treatment of a Prussian blue analogue for enhanced electrocatalytic oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 15942-15946	13	29
248	Self-Assembled Close-Packed MnO Nanoparticles Anchored on a Polyethylene Separator for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 26274-26282	9.5	64
247	Perovskite Membranes with Vertically Aligned Microchannels for All-Solid-State Lithium Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1801433	21.8	136
246	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	13.1	74
245	A multifunctional separator modified with cobalt and nitrogen co-doped porous carbon nanofibers for LiS batteries. <i>Journal of Membrane Science</i> , 2018 , 548, 247-253	9.6	60
244	Nitrogen Reduction Reaction: Molybdenum Carbide Nanodots Enable Efficient Electrocatalytic Nitrogen Fixation under Ambient Conditions (Adv. Mater. 46/2018). <i>Advanced Materials</i> , 2018 , 30, 1870350	24	11
243	Titelbild: 2D MoN-VN Heterostructure To Regulate Polysulfides for Highly Efficient Lithium-Sulfur Batteries (Angew. Chem. 51/2018). <i>Angewandte Chemie</i> , 2018 , 130, 16809-16809	3.6	0
242	Molybdenum Carbide Nanodots Enable Efficient Electrocatalytic Nitrogen Fixation under Ambient Conditions. <i>Advanced Materials</i> , 2018 , 30, e1803694	24	436
241	Two-dimensional molybdenum nitride nanosheets modified Celgard separator with multifunction for Li S batteries. <i>Journal of Power Sources</i> , 2018 , 408, 58-64	8.9	40
240	2D MoN-VN Heterostructure To Regulate Polysulfides for Highly Efficient Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , 2018 , 130, 16945-16949	3.6	10
239	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
238	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
237	Graphene-assisted synthesis of PdFe-embedded porous carbon nanofibers for efficient ethanol electrooxidation. <i>Electrochimica Acta</i> , 2018 , 289, 311-318	6.7	17
236	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
235	Heat and mass transfer in a polymeric electrolyte membrane-based electrochemical air dehumidification system: Model development and performance analysis. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 126, 888-898	4.9	12
234	Asymmetric membrane structure: An efficient approach to enhance hydrogen separation performance. <i>Separation and Purification Technology</i> , 2018 , 207, 363-369	8.3	16

233	A Two-Dimensional Lamellar Membrane: MXene Nanosheet Stacks. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 1825-1829	16.4	518
232	A Two-Dimensional Lamellar Membrane: MXene Nanosheet Stacks. <i>Angewandte Chemie</i> , 2017 , 129, 1851-1855	5.6	75
231	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	4.4	68
230	Self-Supported PtAuP Alloy Nanotube Arrays with Enhanced Activity and Stability for Methanol Electro-Oxidation. <i>Small</i> , 2017 , 13, 1604000	11	42
229	Selective Adsorption of Light Alkanes on a Highly Robust Indium Based Metal-Organic Framework. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 4488-4495	3.9	36
228	Modeling of U-shaped Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O ₃ hollow-fiber membrane for oxygen permeation. <i>Chinese Journal of Chemical Engineering</i> , 2017 , 25, 892-897	3.2	6
227	Highly Compressible Nitrogen-Doped Carbon Foam Electrode with Excellent Rate Capability via a Smart Etching and Catalytic Process. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 15477-15483	9.5	24
226	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
225	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	8.9	75
224	Hierarchical NiCo ₂ O ₄ nanosheets on carbon nanofiber films for high energy density and long-life Li ₂ S batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 14530-14536	13	39
223	Water Transport with Ultralow Friction through Partially Exfoliated g-C ₃ N ₄ Nanosheet Membranes with Self-Supporting Spacers. <i>Angewandte Chemie</i> , 2017 , 129, 9102-9108	3.6	24
222	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	16.4	177
221	A novel DOBDC-functionalized MIL-100(Fe) and its enhanced CO ₂ capacity and selectivity. <i>Chemical Engineering Journal</i> , 2017 , 321, 600-607	14.7	25
220	Quenched breathing effect, enhanced CO ₂ uptake and improved CO ₂ /CH ₄ selectivity of MIL-53(Cr)/graphene oxide composites. <i>Chemical Engineering Science</i> , 2017 , 167, 98-104	4.4	28
219	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	13	79
218	Introduction of metal precursors by electrodeposition for the in situ growth of metal-organic framework membranes on porous metal substrates. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 1948-1951	13	49
217	Phase-inversion synthesis of asymmetric-structured La _{0.5} W _{0.6} Mo _{0.4} O _{11.25} membranes with enhanced hydrogen permeation flux. <i>Journal of Alloys and Compounds</i> , 2017 , 729, 890-896	5.7	9
216	Self-Sacrificial Template Strategy Coupled with Smart in Situ Seeding for Highly Oriented Metal-Organic Framework Layers: From Films to Membranes. <i>Chemistry of Materials</i> , 2017 , 29, 7103-7107	9.6	41

215	Effect of the La/W ratio in lanthanum tungstate on the structure, stability and hydrogen permeation properties. <i>Journal of Membrane Science</i> , 2017 , 542, 300-306	9.6	10
214	Tuning the separation performance of hydrogen permeable membranes using an anion doping strategy. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 20482-20490	13	23
213	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	15.6	265
212	CO ₂ -tolerant Ni-La _{5.5} WO _{11.25} dual-phase membranes with enhanced H ₂ permeability. <i>Ceramics International</i> , 2017 , 43, 14608-14615	5.1	12
211	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
210	CO ₂ -stable Ce _{0.9} Gd _{0.1} O ₂ perovskite dual phase oxygen separation membranes and the application in partial oxidation of methane to syngas. <i>Chemical Engineering Journal</i> , 2017 , 327, 202-209	14.7	41
209	Fe ₃ O ₄ /SnO ₂ /rGO ternary composite as a high-performance anode material for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2017 , 693, 1174-1179	5.7	26
208	Ultrafast room temperature synthesis of novel composites Imi@Cu-BTC with improved stability against moisture. <i>Chemical Engineering Journal</i> , 2017 , 307, 537-543	14.7	38
207	CO ₂ -tolerant U-shaped hollow fiber membranes for hydrogen separation. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 4208-4215	6.7	15
206	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
205	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
204	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	14.7	83
203	TiN-coated micron-sized tantalum-doped Li ₄ Ti ₅ O ₁₂ with enhanced anodic performance for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2016 , 687, 746-753	5.7	32
202	Green fabrication of cellulose/graphene composite in ionic liquid and its electrochemical and photothermal properties. <i>Chemical Engineering Journal</i> , 2016 , 299, 45-55	14.7	40
201	Iron based dual-metal oxides on graphene for lithium-ion batteries anode: Effects of composition and morphology. <i>Journal of Alloys and Compounds</i> , 2016 , 684, 47-54	5.7	15
200	Sodium Ion Batteries: Free-Standing Nitrogen-Doped Carbon Nanofiber Films: Integrated Electrodes for Sodium-Ion Batteries with Ultralong Cycle Life and Superior Rate Capability (Adv. Energy Mater. 7/2016). <i>Advanced Energy Materials</i> , 2016 , 6,	21.8	1
199	Enhancement on the wettability of lithium battery separator toward nonaqueous electrolytes. <i>Journal of Membrane Science</i> , 2016 , 503, 25-30	9.6	71
198	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	13	95

197	Catalytic adsorptive desulfurization of model diesel fuel using TiO ₂ /SBA-15 under mild conditions. <i>Fuel</i> , 2016 , 174, 118-125	7.1	56
196	Interconnected γ -Fe ₂ O ₃ nanosheet arrays as high-performance anode materials for lithium-ion batteries. <i>Electrochimica Acta</i> , 2016 , 192, 407-413	6.7	45
195	Silicon/Wolfram Carbide@Graphene composite: enhancing conductivity and structure stability in amorphous-silicon for high lithium storage performance. <i>Electrochimica Acta</i> , 2016 , 191, 462-472	6.7	29
194	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
193	A thin inorganic composite separator for lithium-ion batteries. <i>Journal of Membrane Science</i> , 2016 , 509, 19-26	9.6	68
192	Niobium and molybdenum co-doped La _{0.5} WO _{1.25} membrane with improved hydrogen permeability. <i>Journal of Membrane Science</i> , 2016 , 510, 155-163	9.6	28
191	Novel cobalt-free tantalum-doped perovskite BaFe _{1-x} Ta _x O ₃ with high oxygen permeation. <i>Chinese Journal of Chemical Engineering</i> , 2016 , 24, 339-344	3.2	5
190	Chemically drilling carbon nanotubes for electrocatalytic oxygen reduction reaction. <i>Electrochimica Acta</i> , 2016 , 190, 49-56	6.7	25
189	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
188	The phase stability of the Ruddlesden-Popper type oxide (Pr _{0.9} La _{0.1}) ₂ ONi _{0.74} Cu _{0.21} Ga _{0.05} O ₄ + δ in an oxidizing environment. <i>Journal of Membrane Science</i> , 2016 , 497, 357-364	9.6	18
187	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, 853-9	11	264
186	A novel carbonized polydopamine (C-PDA) adsorbent with high CO ₂ adsorption capacity and water vapor resistance. <i>AIChE Journal</i> , 2016 , 62, 3730-3738	3.6	31
185	Freestanding, Hydrophilic Nitrogen-Doped Carbon Foams for Highly Compressible All Solid-State Supercapacitors. <i>Advanced Materials</i> , 2016 , 28, 5997-6002	24	233
184	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
183	Eine zweiphasige Keramikmembran mit extrem hohem Wasserstoff-Fluss durch Entmischung einer keramischen Vorstufe. <i>Angewandte Chemie</i> , 2016 , 128, 11055-11058	3.6	4
182	Thermoresponsive Acidic Microgels as Functional Draw Agents for Forward Osmosis Desalination. <i>Environmental Science & Technology</i> , 2016 , 50, 4221-8	10.3	31
181	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
180	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

179	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
178	Highly ordered ZnMnO ₃ nanotube arrays from a self-sacrificial ZnO template as high-performance electrodes for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 16318-16323	13	23
177	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, 10895-8	16.4	55
176	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	14.7	88
175	Three-dimensional MnO ₂ ultrathin nanosheet aerogels for high-performance LiD ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 2559-2563	13	79
174	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	14.7	77
173	A CO ₂ -stable hollow-fiber membrane with high hydrogen permeation flux. <i>AIChE Journal</i> , 2015 , 61, 1997-2007	5.007	36
172	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	10.3	97
171	Selective adsorption of thiophenic compounds from fuel over TiO ₂ /SiO ₂ under UV-irradiation. <i>Journal of Hazardous Materials</i> , 2015 , 300, 426-432	12.8	38
170	Porous nitrogen doped carbon sphere as high performance anode of sodium-ion battery. <i>Carbon</i> , 2015 , 94, 888-894	10.4	130
169	Enhanced stability of Zr-doped Ba(CeTb)O _{3-δ} -Ni cermet membrane for hydrogen separation. <i>Chemical Communications</i> , 2015 , 51, 11619-21	5.8	28
168	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	14.7	72
167	Tantalum-doped lithium titanate with enhanced performance for lithium-ion batteries. <i>Journal of Power Sources</i> , 2015 , 283, 372-380	8.9	70
166	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	8.9	68
165	Hydrogen permeability and stability of BaCe _{0.85} Tb _{0.05} Zr _{0.1} O _{3-δ} asymmetric membranes. <i>Journal of Membrane Science</i> , 2015 , 488, 173-181	9.6	30
164	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
163	Synthesis of novel nitrogen-doped lithium titanate with ultra-high rate capability using melamine as a solid nitrogen source. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 10753-10759	13	37
162	Hierarchical Mesoporous/Macroporous Perovskite La _{0.5} Sr _{0.5} CoO _{3-x} Nanotubes: A Bifunctional Catalyst with Enhanced Activity and Cycle Stability for Rechargeable Lithium Oxygen Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 22478-86	9.5	114

161	Cobalt-free gadolinium-doped perovskite $Gd_xBa_{1-x}FeO_{3-\delta}$ as high-performance materials for oxygen separation. <i>Chinese Journal of Chemical Engineering</i> , 2015 , 23, 1763-1767	3.2	5
160	Binder-free Co_3O_4 nanowire arrays for lithium ion batteries with excellent rate capability and ultra-long cycle life. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 19711-19717	13	34
159	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	3.7	73
158	Visible light photoelectrochemical properties of a hydrogenated TiO_2 nanorod film and its application in the detection of chemical oxygen demand. <i>RSC Advances</i> , 2015 , 5, 76315-76320	3.7	17
157	A new CO_2 -resistant Ruddlesden-Popper oxide with superior oxygen transport: A-site deficient $(Pr_{0.9}La_{0.1})_{1.9}(Ni_{0.74}Cu_{0.21}Ga_{0.05})O_{4+\delta}$. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 19107-19114	13	36
156	Nitrogen-doped bamboo-like carbon nanotubes: promising anode materials for sodium-ion batteries. <i>Chemical Communications</i> , 2015 , 51, 16045-8	5.8	92
155	Enhanced activity and durability of platinum anode catalyst by the modification of cobalt phosphide for direct methanol fuel cells. <i>Electrochimica Acta</i> , 2015 , 185, 178-183	6.7	24
154	Electrospun porous vanadium pentoxide nanotubes as a high-performance cathode material for lithium-ion batteries. <i>Electrochimica Acta</i> , 2015 , 173, 131-138	6.7	36
153	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	14.7	95
152	Honeycomb-like $NiMoO_4$ ultrathin nanosheet arrays for high-performance electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 6128-6135	13	175
151	Oxygen permeability and structure stability of a novel cobalt-free perovskite $Gd_{0.33}Ba_{0.67}FeO_{3-\delta}$. <i>Journal of Membrane Science</i> , 2014 , 457, 82-87	9.6	11
150	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
149	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	5.1	69
148	Towards easy reversible dehydrogenation of $LiBH_4$ by catalyzing hierarchic nanostructured CoB . <i>Nano Energy</i> , 2014 , 10, 235-244	17.1	40
147	A CO_2 -stable reduction-tolerant Nd-containing dual phase membrane for oxyfuel CO_2 capture. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7780-7787	13	55
146	SnO_2 decorated graphene nanocomposite anode materials prepared via an up-scalable wet-mechanochemical process for sodium ion batteries. <i>RSC Advances</i> , 2014 , 4, 50148-50152	3.7	42
145	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
144	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

143	Partial oxidation of methane in hollow-fiber membrane reactors based on alkaline-earth metal-free CO ₂ -tolerant oxide. <i>AIChE Journal</i> , 2014 , 60, 3587-3595	3.6	22
142	Adsorptive Denitrogenation of Fuel over Metal Organic Frameworks: Effect of N-Types and Adsorption Mechanisms. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 22533-22543	3.8	27
141	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
140	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
139	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
138	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
137	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	13	165
136	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	6.7	74
135	Preparation and Adsorption Performance of for Separation of CO ₂ /CH ₄ . <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 11176-11184	3.9	101
134	Design and synthesis of porous nano-sized Sn@C/graphene electrode material with 3D carbon network for high-performance lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2014 , 604, 188-195	5.7	37
133	Novel bifunctional tantalum and bismuth co-doped perovskite BaBi _{0.05} Co _{0.8} Ta _{0.15} O ₃ with high oxygen permeation. <i>Journal of Membrane Science</i> , 2014 , 468, 184-191	9.6	17
132	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	6.7	122
131	Superior cycle stability of graphene nanosheets prepared by freeze-drying process as anodes for lithium-ion batteries. <i>Journal of Power Sources</i> , 2014 , 254, 198-203	8.9	37
130	Performance of U-shaped BaCo _{0.7} Fe _{0.2} Ta _{0.1} O ₃ hollow-fiber membranes reactor with high oxygen permeation for methane conversion. <i>Chemical Engineering Journal</i> , 2014 , 237, 146-152	14.7	16
129	Porous SiO ₂ as a separator to improve the electrochemical performance of spinel LiMn ₂ O ₄ cathode. <i>Journal of Membrane Science</i> , 2014 , 449, 169-175	9.6	46
128	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
127	Influence of SO ₂ on the phase structure, oxygen permeation and microstructure of K ₂ NiF ₄ -type hollow fiber membranes. <i>Chemical Engineering Journal</i> , 2013 , 217, 34-40	14.7	8
126	Walnut-like vanadium oxide film with high rate performance as a cathode material for rechargeable lithium batteries. <i>Journal of Power Sources</i> , 2013 , 228, 7-13	8.9	9

125	Oxy-fuel combustion for CO ₂ capture using a CO ₂ -tolerant oxygen transporting membrane. <i>AICHE Journal</i> , 2013 , 59, 3856-3862	3.6	13
124	Hydrothermal synthesis of SnO ₂ and SnO ₂ @C nanorods and their application as anode materials in lithium-ion batteries. <i>RSC Advances</i> , 2013 , 3, 17281	3.7	22
123	Enhancement of CO ₂ Adsorption and CO ₂ /N ₂ Selectivity on ZIF-8 via Postsynthetic Modification. <i>AICHE Journal</i> , 2013 , 59, 2195-2206	3.6	137
122	Li ₃ V ₂ (PO ₄) 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
121	CO ₂ -tolerant alkaline-earth metal-free single phase membrane for oxygen separation. <i>Chemical Engineering Science</i> , 2013 , 101, 240-247	4.4	16
120	Effect of CO ₂ and SO ₂ on oxygen permeation and microstructure of (Pr _{0.9} La _{0.1}) ₂ (Ni _{0.74} Cu _{0.21} Ga _{0.05})O _{4+δ} membranes. <i>Journal of Membrane Science</i> , 2013 , 429, 147-154	9.6	34
119	Enhancement of oxygen permeation through U-shaped K ₂ NiF ₄ -type oxide hollow fiber membranes by surface modifications. <i>Separation and Purification Technology</i> , 2013 , 110, 74-80	8.3	16
118	A Novel Aminoalkylsilane Compound with Oligo(ethylene oxide) Units as Effective Additive for Improving Cyclability of Lithium-ion Batteries. <i>Journal of Materials Science and Technology</i> , 2013 , 29, 943-947	9.1	5
117	A CO ₂ -tolerance oxygen permeable 60Ce _{0.9} Gd _{0.1} O _{2-δ} /Ba _{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	9.6	78
116	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	5.7	77
115	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
114	Dense ceramic oxygen permeable membranes and catalytic membrane reactors. <i>Chemical Engineering Journal</i> , 2013 , 220, 185-203	14.7	147
113	A CO ₂ -Stable K ₂ NiF ₄ -Type Oxide (Nd _{0.9} La _{0.1}) ₂ (Ni _{0.74} Cu _{0.21} Al _{0.05})O _{4+δ} for Oxygen Separation. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 8571-8578	3.9	17
112	Free-standing and bendable carbon nanotubes/TiO ₂ nanofibres composite electrodes for flexible lithium ion batteries. <i>Electrochimica Acta</i> , 2013 , 104, 41-47	6.7	57
111	Preparation and electrochemical properties of (Fe _{2.5} Ti _{0.5}) _{1.04} O ₄ /graphene nanocomposite. <i>Electrochimica Acta</i> , 2013 , 104, 267-273	6.7	5
110	Pr _{1.8} La _{0.2} Ni _{0.74} Cu _{0.21} Ga _{0.05} O _{4+δ} as a potential cathode material with CO ₂ resistance for intermediate temperature solid oxide fuel cell. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 10552-10558	6.7	19
109	Synthesis of Microspherical LiFePO ₄ /Carbon Composites for Lithium-Ion Batteries. <i>Nanomaterials</i> , 2013 , 3, 443-452	5.4	19
108	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	6.7	68

107	Porous $\text{Li}_3\text{V}_2(\text{PO}_4)_3/\text{C}$ 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	8.9	87
106	Synthesis of LiFePO_4/C composite as a cathode material for lithium-ion battery by a novel two-step method. <i>Journal of Materials Science</i> , 2012 , 47, 3076-3081	4.3	28
105	Effect of Nb-doping on electrochemical stability of $\text{Li}_4\text{Ti}_5\text{O}_{12}$ discharged to 0 V. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 205-211	2.6	65
104	Efficient Energy Transfer and Enhanced Infrared Emission in Er-Doped ZnO-SiO_2 Composites. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 13458-13462	3.8	55
103	A novel U-shaped anode-supported hollow fiber solid oxide fuel cell with considerable thermal cycling performance and stability. <i>Journal of Membrane Science</i> , 2012 , 417-418, 80-86	9.6	6
102	Novel asymmetric anode-supported hollow fiber solid oxide fuel cell. <i>Journal of Alloys and Compounds</i> , 2012 , 523, 134-138	5.7	6
101	U-Shaped $\text{BaCo}_{0.7}\text{Fe}_{0.2}\text{Ta}_{0.1}\text{O}_3$ Hollow-Fiber Membranes with High Permeation for Oxygen Separation. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 15217-15223	3.9	13
100	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
99	Rapid glycine-nitrate combustion synthesis of the CO_2 -stable dual phase membrane $40\text{Mn}_{1.5}\text{Co}_{1.5}\text{O}_{4-x}\text{Ce}_{0.9}\text{Pr}_{0.1}\text{O}_2$ for CO_2 capture via an oxy-fuel process. <i>Journal of Membrane Science</i> , 2012 , 423-424, 450-458	9.6	26
98	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
97	Novel Cobalt-Free, Noble Metal-Free Oxygen-Permeable $40\text{Pr}_{0.6}\text{Sr}_{0.4}\text{FeO}_3-x\text{Ce}_{0.9}\text{Pr}_{0.1}\text{O}_2$ Dual-Phase Membrane. <i>Chemistry of Materials</i> , 2012 , 24, 2148-2154	9.6	104
96	Oxygen permeation through a CO_2 -tolerant mixed conducting oxide $(\text{Pr}_{0.9}\text{La}_{0.1})_2(\text{Ni}_{0.74}\text{Cu}_{0.21}\text{Ga}_{0.05})\text{O}_{4-x}$. <i>AIChE Journal</i> , 2012 , 58, 2473-2478	3.6	38
95	Oxygen separation through U-shaped hollow fiber membrane using pure CO_2 as sweep gas. <i>AIChE Journal</i> , 2012 , 58, 2856-2864	3.6	37
94	Dual Phase Composite Oxide of $\text{Ce}_{0.9}\text{Gd}_{0.1}\text{O}_2-x\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_3-x$ with Excellent Oxygen Permeation. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 4703-4709	3.9	33
93	Self-standing integrative cell with an inorganic separator for lithium-ion battery stacks. <i>Journal of Applied Electrochemistry</i> , 2012 , 42, 471-475	2.6	4
92	Activation in the initial stage of oxygen permeation in $\text{SrCo}_{0.9}\text{Ta}_{0.1}\text{O}_3$. <i>Chinese Chemical Letters</i> , 2012 , 23, 113-116	8.1	3
91	One end-dead perovskite hollow fiber membranes for high-purity oxygen production from ambient air. <i>Chemical Engineering Journal</i> , 2012 , 183, 473-482	14.7	11
90	CHLORINE-DOPED $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_3-x$ AS AN OXYGEN-PERMEABLE MEMBRANE AT INTERMEDIATE TEMPERATURE. <i>Functional Materials Letters</i> , 2011 , 04, 261-264	1.2	4

89	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	3.9	61
88	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	5.7	87
87	An inorganic membrane as a separator for lithium-ion battery. <i>Journal of Power Sources</i> , 2011 , 196, 8651-8655	172	
86	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	6.7	68
85	Syngas production in a novel perovskite membrane reactor with co-feed of CO ₂ . <i>Chinese Chemical Letters</i> , 2011 , 22, 1492-1496	8.1	9
84	Improvement of CO ₂ adsorption on ZIF-8 crystals modified by enhancing basicity of surface. <i>Chemical Engineering Science</i> , 2011 , 66, 4878-4888	4.4	135
83	Optimizing the compatibility between dimethyl methylphosphonate (DMMP)-based electrolytes and carbonaceous anodes. <i>Journal of Applied Electrochemistry</i> , 2011 , 41, 965-971	2.6	2
82	Hydrothermal synthesis of ultra-thin LiFePO ₄ platelets for Li-ion batteries. <i>Journal of Materials Science</i> , 2011 , 46, 4906-4912	4.3	21
81	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
80	Effect of vinyl ethylene carbonate on the compatibility between graphite and the flame-retarded electrolytes containing dimethyl methyl phosphonate. <i>Ionics</i> , 2011 , 17, 415-420	2.7	5
79	Preparation and oxygen permeation of U-shaped perovskite hollow-fiber membranes. <i>AIChE Journal</i> , 2011 , 57, 975-984	3.6	54
78	Influence of the preparation methods on the microstructure and oxygen permeability of a CO ₂ -stable dual phase membrane. <i>AIChE Journal</i> , 2011 , 57, 2738-2745	3.6	53
77	CO ₂ -stable und cobaltfreie Zweiphasenmembranen zur Sauerstoffabtrennung. <i>Angewandte Chemie</i> , 2011 , 123, 785-789	3.6	11
76	CO ₂ -stable and cobalt-free dual-phase membrane for oxygen separation. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 759-63	16.4	178
75	Three-dimensional porous V ₂ O ₅ cathode with ultra high rate capability. <i>Energy and Environmental Science</i> , 2011 , 4, 2854	35.4	140
74	Oxygen Permeation through U-Shaped K ₂ NiF ₄ -Type Oxide Hollow-Fiber Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 12727-12734	3.9	25
73	Porous monodisperse V ₂ O ₅ microspheres as cathode materials for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2011 , 21, 6365		176
72	High reversible capacity of SnO ₂ /graphene nanocomposite as an anode material for lithium-ion batteries. <i>Electrochimica Acta</i> , 2011 , 56, 4532-4539	6.7	344

71	Graphitic platelets prepared by electrochemical exfoliation of graphite and their application for Li energy storage. <i>Electrochimica Acta</i> , 2011 , 56, 5322-5327	6.7	15
70	Tantalum stabilized SrCoO ₃ perovskite membrane for oxygen separation. <i>Journal of Membrane Science</i> , 2011 , 368, 159-164	9.6	63
69	Oxidative Coupling of Methane with High C ₂ Yield by using Chlorinated Perovskite Ba _{0.5} Sr _{0.5} Fe _{0.2} Co _{0.8} O _{3-δ} as Catalyst and N ₂ O as Oxidant. <i>ChemCatChem</i> , 2010 , 2, 1539-1542	5.2	23
68	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	14.7	145
67	Hydrogen production by water dissociation in surface-modified BaCo(x)Fe(y)Zr(1-x-y)O(3-δ) hollow-fiber membrane reactor with improved oxygen permeation. <i>Chemistry - A European Journal</i> , 2010 , 16, 7898-903	4.8	39
66	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
65	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	8.9	156
64	Improved water dissociation and nitrous oxide decomposition by in situ oxygen removal in perovskite catalytic membrane reactor. <i>Catalysis Today</i> , 2010 , 156, 187-190	5.3	37
63	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
62	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
61	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	6.7	367
60	Oxygen selective ceramic hollow fiber membranes for partial oxidation of methane. <i>AIChE Journal</i> , 2009 , 55, 2657-2664	3.6	47
59	Oxygen permeability and structural stability of a novel tantalum-doped perovskite BaCo _{0.7} Fe _{0.2} Ta _{0.1} O _{3-δ} . <i>AIChE Journal</i> , 2009 , 56, NA-NA	3.6	3
58	Zersetzung von Lachgas in die Elemente mit In-situ-Entfernung des Sauerstoffs durch eine Perowskitmembran. <i>Angewandte Chemie</i> , 2009 , 121, 3027-3030	3.6	21
57	Titelbild: Zersetzung von Lachgas in die Elemente mit In-situ-Entfernung des Sauerstoffs durch eine Perowskitmembran (Angew. Chem. 16/2009). <i>Angewandte Chemie</i> , 2009 , 121, 2845-2845	3.6	
56	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
55	Cover Picture: Direct Decomposition of Nitrous Oxide to Nitrogen by In Situ Oxygen Removal with a Perovskite Membrane (Angew. Chem. Int. Ed. 16/2009). <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 2807-2807	16.4	1
54	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	9.6	67

53	Synthesis of LiFePO ₄ -C cathode materials using a green and low-cost method. <i>Ionics</i> , 2009 , 15, 689-692	2.7	8
52	Selective oxidation of CH ₄ and C ₂ H ₆ over a mixed oxygen ion and electron conducting perovskite λ TAP and membrane reactors study. <i>Journal of Molecular Catalysis A</i> , 2009 , 297, 142-149		23
51	Novel Ba _{0.5} Sr _{0.5} Fe _{0.8} Zn _{0.2} O ₃ λ membranes for POM. <i>Chinese Chemical Letters</i> , 2009 , 20, 250-252	8.1	5
50	A novel zincum-doped perovskite-type ceramic membrane for oxygen separation. <i>Journal of Alloys and Compounds</i> , 2009 , 484, 386-389	5.7	27
49	Preparation of LiMn ₂ O ₄ with an enhanced performance by mixed liquid and mechanical activations. <i>Journal of Alloys and Compounds</i> , 2009 , 486, 886-889	5.7	12
48	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
47	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	3.4	69
46	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
45	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</i> , 2008 , 120, 9481-9484	3.6	30
44	Grain boundaries as barrier for oxygen transport in perovskite-type membranes. <i>Journal of Membrane Science</i> , 2008 , 316, 137-144	9.6	34
43	Relationship between homogeneity and oxygen permeability of composite membranes. <i>Journal of Membrane Science</i> , 2008 , 309, 120-127	9.6	74
42	Oxygen production at low temperature using dense perovskite hollow fiber membranes. <i>Journal of Membrane Science</i> , 2008 , 322, 214-217	9.6	49
41	Preparation and hydrogen permeation properties of BaCe _{0.95} Nd _{0.05} O ₃ λ membranes. <i>Chinese Chemical Letters</i> , 2008 , 19, 1256-1259	8.1	8
40	Preparation and Application of Perovskite Hollow Fiber Oxygen Permeable Membrane. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2008 , 23, 1216-1220	1	1
39	Perowskit-Hohlfasermembranen ffdie katalytische Partialoxidation von Methan zu Synthesegas. <i>Chemie-Ingenieur-Technik</i> , 2007 , 79, 831-842	0.8	4
38	How (Ba _{0.5} Sr _{0.5})(Fe _{0.8} Zn _{0.2})O ₃ λ and (Ba _{0.5} Sr _{0.5})(Co _{0.8} Fe _{0.2})O ₃ λ Perovskites Form via an EDTA/Citric Acid Complexing Method. <i>Advanced Materials</i> , 2007 , 19, 2134-2140	24	58
37	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 λ membranes. <i>Journal of Membrane Science</i> , 2007 , 293, 44-52	9.6	310
36	In Situ Study of the Reaction Sequence in the Sol-Gel Synthesis of a (Ba _{0.5} Sr _{0.5})(Co _{0.8} Fe _{0.2})O ₃ λ Perovskite by X-Ray Diffraction and Transmission Electron Microscopy. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 3651-3655	3.8	21

35	Advanced Ba _{0.5} Sr _{0.5} Zn _{0.2} Fe _{0.8} O ₃ perovskite-type ceramics as oxygen selective membranes: Evaluation of the synthetic process. <i>Progress in Solid State Chemistry</i> , 2007 , 35, 339-353	8	36
34	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	3.9	73
33	Mixed oxygen ion and electron conducting hollow fiber membranes for oxygen separation. <i>Solid State Ionics</i> , 2006 , 177, 2255-2259	3.3	32
32	Structural stability and oxygen permeability of cerium lightly doped BaFeO ₃ ceramic membranes. <i>Solid State Ionics</i> , 2006 , 177, 2917-2921	3.3	132
31	Production of high-purity oxygen by perovskite hollow fiber membranes swept with steam. <i>Journal of Membrane Science</i> , 2006 , 284, 5-8	9.6	39
30	Partial oxidation of methane to syngas in a perovskite hollow fiber membrane reactor. <i>Catalysis Communications</i> , 2006 , 7, 907-912	3.2	63
29	Perovskite hollow fibre membranes in the partial oxidation of methane to synthesis gas in a membrane reactor. <i>Desalination</i> , 2006 , 199, 415-417	10.3	17
28	Can inorganic membranes compete with organic ones? Perovskite hollow fibres for O ₂ -separation and supported H ₂ -selective zeolite membranes. <i>Desalination</i> , 2006 , 199, 365-367	10.3	1
27	Dense perovskite hollow fibre membranes. <i>Desalination</i> , 2006 , 199, 355-356	10.3	4
26	Hollow fiber membrane reactors for the oxidative activation of ethane. <i>Catalysis Today</i> , 2006 , 118, 98-103	3.3	51
25	Evaluation of perovskites in hollow fibre and disk geometry in catalytic membrane reactors and in oxygen separators. <i>Catalysis Today</i> , 2006 , 118, 128-135	5.3	42
24	Experimental and modeling study of the O ₂ -enrichment by perovskite fibers. <i>AIChE Journal</i> , 2006 , 52, 3118-3125	3.6	26
23	Partial oxidation of methane to syngas in BaCe _{0.15} Fe _{0.85} O ₃ membrane reactors. <i>Catalysis Letters</i> , 2006 , 111, 179-185	2.8	46
22	Hollow fibre perovskite membranes for oxygen separation. <i>Journal of Membrane Science</i> , 2005 , 258, 1-4	9.6	189
21	Investigation of phase structure, sintering, and permeability of perovskite-type Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O ₃ membranes. <i>Journal of Membrane Science</i> , 2005 , 262, 20-26	9.6	130
20	Oxygen permeation study of perovskite hollow fiber membranes. <i>Catalysis Today</i> , 2005 , 104, 126-130	5.3	52
19	In situ high temperature X-ray diffraction studies of mixed ionic and electronic conducting perovskite-type membranes. <i>Materials Letters</i> , 2005 , 59, 3750-3755	3.3	41
18	Perovskite hollow-fiber membranes for the production of oxygen-enriched air. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 6906-9	16.4	135

17	Perovskite Hollow-Fiber Membranes for the Production of Oxygen-Enriched Air. <i>Angewandte Chemie</i> , 2005 , 117, 7066-7069	3.6	26
16	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 <i>Advanced Materials</i> , 2005 , 17, 1785-1788	24	221
15	Oxidative coupling of methane in Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O ₃ tubular membrane reactors. <i>Catalysis Today</i> , 2005 , 104, 160-167	5.3	89
14	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
13	Experimental and modeling studies on Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O ₃ (BSCF) tubular membranes for air separation. <i>Journal of Membrane Science</i> , 2004 , 243, 405-415	9.6	88
12	Novel cobalt-free oxygen permeable membrane. <i>Chemical Communications</i> , 2004 , 1130-1	5.8	103
11	Oxidative dehydrogenation of propane in a dense tubular membrane reactor. <i>Reaction Kinetics and Catalysis Letters</i> , 2003 , 79, 351-356		28
10	Structure and oxygen permeability of a dual-phase membrane. <i>Journal of Membrane Science</i> , 2003 , 224, 107-115	9.6	43
9	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 membrane reactor. <i>Catalysis Today</i> , 2003 , 82, 157-166	5.3	145
8	Partial oxidation of ethane to syngas in an oxygen-permeable membrane reactor. <i>Journal of Membrane Science</i> , 2002 , 209, 143-152	9.6	34
7	Oxygen permeation study in a tubular Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O ₃ oxygen permeable membrane. <i>Journal of Membrane Science</i> , 2002 , 210, 259-271	9.6	155
6	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
5	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
4	Partial oxidation of methane to syngas in tubular oxygenper-meable reactor. <i>Science Bulletin</i> , 2002 , 47, 534		5
3	Sn-Doped Black Phosphorene for Enhancing the Selectivity of Nitrogen Electroreduction to Ammonia. <i>Advanced Functional Materials</i> , 2111161	15.6	4
2	Mixed Oxygen Ionic and Electronic Conducting Membrane Reactors for Pure Chemicals Production . <i>Chemie-Ingenieur-Technik</i> ,	0.8	0
1	Roadmap on Sustainable Mixed Ionic-Electronic Conducting Membranes. <i>Advanced Functional Materials</i> , 2105702	15.6	7