

Weishen Yang

List of Publications by Year in Descending Order

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

365
papers

18,364
citations

68
h-index

123
g-index

378
ext. papers

20,360
ext. citations

7.4
avg, IF

6.99
L-index

#	Paper	IF	Citations
365	Boosting the oxygen evolution reaction through migrating active sites from the bulk to surface of perovskite oxides. <i>Journal of Energy Chemistry</i> , 2022 ,	12	2
364	Flexible Soft-Solid Metal-Organic Framework Composite Membranes for H ₂ /CO ₂ Separation.. <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	6
363	Effect of inner strain on the performance of dual-phase oxygen permeable membranes. <i>Journal of Membrane Science</i> , 2022 , 644, 120142	9.6	0
362	Effect of molten carbonate composition on CO ₂ permeation mechanism. <i>Journal of Membrane Science</i> , 2022 , 645, 120210	9.6	
361	Synthesis optimization of phase-singularized UZM-5 zeolite under hydrothermal conditions: The critical control points of its crystalline phase and crystallinity. <i>Microporous and Mesoporous Materials</i> , 2022 , 334, 111776	5.3	1
360	Enhancing activity and stability of Co-MOF-74 for oxygen evolution reaction by wrapping polydopamine. <i>Electrochimica Acta</i> , 2022 , 416, 140293	6.7	0
359	Assembly of ionic liquid molecule layers on metal-organic framework-808 for CO ₂ capture. <i>Chemical Engineering Journal</i> , 2022 , 439, 135650	14.7	2
358	Effect of Phase Ratio on Hydrogen Separation of Dual-phase Membrane Reactors. <i>Chemie-Ingenieur-Technik</i> , 2022 , 94, 145-151	0.8	
357	Oxygen activation on Ba-containing perovskite materials.. <i>Science Advances</i> , 2022 , 8, eabn4072	14.3	7
356	Repeatable preparation of defect-free electrolyte membranes for proton-conducting fuel cells. <i>Journal of Membrane Science</i> , 2022 , 656, 120642	9.6	0
355	Synergistic effects of phases in the selective oxidation of isobutane over supported (NH ₄) ₃ HPMo ₁₁ VO ₄₀ catalysts. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2021 , 133, 293-308	1.6	3
354	Single-Phase Covalent Organic Framework Staggered Stacking Nanosheet Membrane for CO-Selective Separation. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 19047-19052	16.4	23
353	Selective Removal of CO in Hydrocarbons-Rich Industrial Off-gases over CuO _x exZr _{1-x} O ₂ Catalysts. <i>Catalysis Surveys From Asia</i> , 2021 , 25, 68-75	2.8	
352	Tuning of Delicate Host-Guest Interactions in Hydrated MIL-53 and Functional Variants for Furfural Capture from Aqueous Solution. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 1629-1634	16.4	6
351	Tuning of Delicate Host-Guest Interactions in Hydrated MIL-53 and Functional Variants for Furfural Capture from Aqueous Solution. <i>Angewandte Chemie</i> , 2021 , 133, 1653-1658	3.6	3
350	Improved hydrogen separation performance of asymmetric oxygen transport membranes by grooving in the porous support layer. <i>Green Chemical Engineering</i> , 2021 , 2, 96-103	3	2
349	Modification strategies for metal-organic frameworks targeting at membrane-based gas separations. <i>Green Chemical Engineering</i> , 2021 , 2, 17-26	3	7

348	The current status of high temperature electrochemistry-based CO ₂ transport membranes and reactors for direct CO ₂ capture and conversion. <i>Progress in Energy and Combustion Science</i> , 2021 , 82, 100888	33.6	17
347	Cathode activation process and CO ₂ electroreduction mechanism on LnFeO ₃ -□(Ln=La, Pr and Gd) perovskite cathodes. <i>Journal of Power Sources</i> , 2021 , 485, 229343	8.9	6
346	Single-Phase Covalent Organic Framework Staggered Stacking Nanosheet Membrane for CO ₂ -Selective Separation. <i>Angewandte Chemie</i> , 2021 , 133, 19195-19200	3.6	1
345	Single- and dual-phase capillary membranes prepared through plastic extrusion method for oxygen permeation. <i>Ceramics International</i> , 2021 , 47, 18510-18516	5.1	0
344	Dispersed Nano-Au on Zr-Suboxides as Active Cathode for Direct CO Electroreduction in Solid Oxide Electrolysis Cells. <i>Nano Letters</i> , 2021 , 21, 6952-6959	11.5	0
343	A Highly Selective Supramolecule Array Membrane Made of Zero-Dimensional Molecules for Gas Separation. <i>Angewandte Chemie</i> , 2021 , 133, 21145-21151	3.6	1
342	A Highly Selective Supramolecule Array Membrane Made of Zero-Dimensional Molecules for Gas Separation. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 20977-20983	16.4	3
341	ZIF-L membrane with a membrane-interlocked-support composite architecture for H ₂ /CO ₂ separation. <i>Science Bulletin</i> , 2021 , 66, 1869-1876	10.6	2
340	Effects of catalysts on water decomposition and hydrogen oxidation reactions in oxygen transport membrane reactors. <i>Journal of Membrane Science</i> , 2021 , 634, 119394	9.6	0
339	Porous carbon layers wrapped CoFe alloy for ultrastable Zn-Air batteries exceeding 20,000 charging-discharging cycles. <i>Journal of Energy Chemistry</i> , 2021 , 61, 327-335	12	6
338	Layered MOF membranes modified with ionic liquid/AgBF ₄ composite for olefin/paraffin separation. <i>Journal of Membrane Science</i> , 2021 , 639, 119771	9.6	2
337	Recent Progress on Mixed Conducting Oxygen Transport Membrane Reactors for Water Splitting Reaction. <i>Acta Chimica Sinica</i> , 2021 , 79, 588	3.3	
336	Rational design and fabrication of a novel acid-resistant UZM-5 zeolite membrane for pervaporation dehydration processes. <i>Chemical Communications</i> , 2021 , 57, 9574-9577	5.8	2
335	A permeation model study of oxygen transport kinetics of Ba _x Sr _{1-x} Co _{0.8} Fe _{0.2} O ₃ -□ <i>AIChE Journal</i> , 2020 , 66, e16291	3.6	3
334	A high-efficiency novel IGCC-OTM carbon capture power plant design. <i>Journal of Advanced Manufacturing and Processing</i> , 2020 , 2,	2.7	6
333	In-situ interfacial assembly of ultra-H ₂ -permeable metal-organic framework membranes for H ₂ /CO ₂ separation. <i>Journal of Membrane Science</i> , 2020 , 611, 118419	9.6	18
332	CO ₂ electroreduction enhanced by transitional layer at cathode/electrolyte interface. <i>Journal of Power Sources</i> , 2020 , 451, 227743	8.9	5
331	Oxygen transport kinetics affected by grain size □ A permeation model study. <i>Journal of Membrane Science</i> , 2020 , 603, 118038	9.6	8

330	High-performance oxygen transport membrane reactors integrated with IGCC for carbon capture. <i>AIChE Journal</i> , 2020 , 66, e16427	3.6	13
329	Metal-Organic Framework Membranes and Membrane Reactors: Versatile Separations and Intensified Processes. <i>Research</i> , 2020 , 2020, 1583451	7.8	6
328	Selective removal of CO from hydrocarbon-rich industrial off-gases over CeO ₂ -supported metal oxides. <i>Journal of Materials Science</i> , 2020 , 55, 2321-2332	4.3	8
327	Metal-organic framework-based CO ₂ capture: From precise material design to high-efficiency membranes. <i>Frontiers of Chemical Science and Engineering</i> , 2020 , 14, 188-215	4.5	18
326	Universally applicable kinetic model for mixed ionic-electronic conducting membranes. <i>Chemical Engineering Science</i> , 2020 , 215, 115455	4.4	3
325	Micro-nanostructural designs of bifunctional electrocatalysts for metal-air batteries. <i>Chinese Journal of Catalysis</i> , 2020 , 41, 390-403	11.3	18
324	Effect of Ru and Ni nanocatalysts on water splitting and hydrogen oxidation reactions in oxygen-permeable membrane reactors. <i>Journal of Membrane Science</i> , 2020 , 599, 117702	9.6	11
323	2D Metal-Organic Framework Materials for Membrane-Based Separation. <i>Advanced Materials Interfaces</i> , 2020 , 7, 1901514	4.6	38
322	Molecular sieving mixed matrix membranes embodying nano-fillers with extremely narrow pore-openings. <i>Journal of Membrane Science</i> , 2020 , 601, 117880	9.6	6
321	Iron stabilized 1/3 A-site deficient La _{0.67} Fe _{0.33} perovskite cathodes for efficient CO ₂ electroreduction. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 21053-21061	13	5
320	Non-noble metal catalysts coated on oxygen-permeable membrane reactors for hydrogen separation. <i>Journal of Membrane Science</i> , 2020 , 594, 117463	9.6	12
319	The roles of oxygen vacancies in electrocatalytic oxygen evolution reaction. <i>Nano Energy</i> , 2020 , 73, 104761	11.1	146
318	Metal-organic framework nanosheets: a class of glamorous low-dimensional materials with distinct structural and chemical natures. <i>Science China Chemistry</i> , 2019 , 62, 1561-1575	7.9	23
317	Microwave-Assisted Hydrothermal Synthesis of [Al(OH)(1,4-NDC)] Membranes with Superior Separation Performances. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 2072-2076	4.5	9
316	Nano-CeO ₂ -Modified Cathodes for Direct Electrochemical CO ₂ Reduction in Solid Oxide Electrolysis Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 9629-9636	8.3	20
315	A poly(amidoamine) nanoparticle cross-linked two-dimensional metal-organic framework nanosheet membrane for water purification. <i>Chemical Communications</i> , 2019 , 55, 3935-3938	5.8	17
314	Effect of Bi doping on the performance of dual-phase oxygen-permeable membranes. <i>Journal of Membrane Science</i> , 2019 , 579, 342-350	9.6	9
313	In-situ-Methoden zur Charakterisierung elektrochemischer NiFe-Sauerstoffentwicklungskatalysatoren. <i>Angewandte Chemie</i> , 2019 , 131, 1264-1277	3.6	12

312	Application of In Situ Techniques for the Characterization of NiFe-Based Oxygen Evolution Reaction (OER) Electrocatalysts. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 1252-1265	16.4	239
311	Microstructural and Interfacial Designs of Oxygen-Permeable Membranes for Oxygen Separation and Reaction-Separation Coupling. <i>Advanced Materials</i> , 2019 , 31, e1902547	24	30
310	Carbon molecular sieving membranes for butane isomer separation. <i>AIChE Journal</i> , 2019 , 65, e16749	3.6	6
309	Detrimental phase evolution triggered by Ni in perovskite-type cathodes for CO ₂ electroreduction. <i>Journal of Energy Chemistry</i> , 2019 , 36, 87-94	12	14
308	Alkaline-earth elements (Ca, Sr and Ba) doped LaFeO ₃ -based cathodes for CO ₂ electroreduction. <i>Journal of Power Sources</i> , 2019 , 443, 227268	8.9	32
307	Charge Transfer Reactions in CO ₂ Electroreduction on Manganese Doped Ceria. <i>ChemElectroChem</i> , 2019 , 6, 1668-1672	4.3	5
306	Effects of membrane thickness and structural type on the hydrogen separation performance of oxygen-permeable membrane reactors. <i>Journal of Membrane Science</i> , 2019 , 573, 370-376	9.6	12
305	Asymmetric dual-phase MIEC membrane reactor for energy-efficient coproduction of two kinds of synthesis gases. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 4218-4227	6.7	13
304	Dual-phase membrane reactor for hydrogen separation with high tolerance to CO ₂ and H ₂ S impurities. <i>AIChE Journal</i> , 2019 , 65, 1088-1096	3.6	25
303	One-step ionothermal synthesis of oriented molecular sieve corrosion-resistant coatings. <i>Microporous and Mesoporous Materials</i> , 2018 , 265, 70-76	5.3	6
302	Effect of V-containing precursors on the structure and catalytic performance of Cs-substituted phosphomolybdates for isobutane oxidation. <i>Applied Catalysis A: General</i> , 2018 , 556, 104-112	5.1	10
301	Highly Efficient Removal of CO in Effluent Streams from Real-Life Propane Oxidation Process over CuO/Fe ₂ O ₃ -Based Catalysts. <i>ChemCatChem</i> , 2018 , 10, 4292-4299	5.2	4
300	Adsorption of Biomass-Derived Polyols onto Metal-Organic Frameworks from Aqueous Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 11963-11969	3.9	14
299	Unique role of Mössbauer spectroscopy in assessing structural features of heterogeneous catalysts. <i>Applied Catalysis B: Environmental</i> , 2018 , 224, 518-532	21.8	58
298	Polyoxometalate catalysts with co-substituted VO ₂ ⁺ and transition metals and their catalytic performance for the oxidation of isobutane. <i>Catalysis Science and Technology</i> , 2018 , 8, 5774-5781	5.5	4
297	Structure and electrochemical properties of cobalt-free perovskite cathode materials for intermediate-temperature solid oxide fuel cells. <i>Electrochimica Acta</i> , 2018 , 279, 224-230	6.7	17
296	Metal-organic framework-based mixed matrix membranes: Synergetic effect of adsorption and diffusion for CO ₂ /CH ₄ separation. <i>Journal of Membrane Science</i> , 2018 , 562, 76-84	9.6	57
295	Insights into the interplay between electric fields and microstructures of AEL films under ionothermal conditions. <i>Chemical Communications</i> , 2017 , 53, 1836-1839	5.8	1

294	Electrochemical reduction of CO ₂ in solid oxide electrolysis cells. <i>Journal of Energy Chemistry</i> , 2017 , 26, 593-601	12	75
293	Oxygen evolution reaction over Fe site of BaZr _x Fe _{1-x} O _{3-δ} perovskite oxides. <i>Electrochimica Acta</i> , 2017 , 241, 433-439	6.7	43
292	Layered Fe-Substituted LiNiO ₂ Electrocatalysts for High-Efficiency Oxygen Evolution Reaction. <i>ACS Energy Letters</i> , 2017 , 2, 1654-1660	20.1	31
291	Microstructural Engineering and Architectural Design of Metal-Organic Framework Membranes. <i>Advanced Materials</i> , 2017 , 29, 1606949	24	106
290	Two-Dimensional Metal-Organic Framework Nanosheets for Membrane-Based Gas Separation. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 9757-9761	16.4	270
289	Two-Dimensional Metal-Organic Framework Nanosheets for Membrane-Based Gas Separation. <i>Angewandte Chemie</i> , 2017 , 129, 9889-9893	3.6	49
288	Selection of oxygen permeation models for different mixed ionic-electronic conducting membranes. <i>AIChE Journal</i> , 2017 , 63, 4043-4053	3.6	25
287	Atomic-scale topochemical preparation of crystalline Fe ³⁺ -doped Ni(OH) ₂ for an ultrahigh-rate oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 7753-7758	13	57
286	Gas separation performance of supported carbon molecular sieve membranes based on soluble polybenzimidazole. <i>Journal of Membrane Science</i> , 2017 , 533, 1-10	9.6	30
285	Perovskites decorated with oxygen vacancies and Fe/Ni alloy nanoparticles as high-efficiency electrocatalysts for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 19836-19843	13	87
284	Oxidative dehydrogenation of n-butane to butenes on Mo-doped VMgO catalysts. <i>RSC Advances</i> , 2017 , 7, 34131-34137	3.7	6
283	Mixed Conducting Ceramic Membranes. <i>Green Chemistry and Sustainable Technology</i> , 2017 ,	1.1	32
282	Perovskite-Type MIEC Membranes. <i>Green Chemistry and Sustainable Technology</i> , 2017 , 179-226	1.1	
281	H ₂ S-tolerant oxygen-permeable ceramic membranes for hydrogen separation with a performance comparable to those of palladium-based membranes. <i>Energy and Environmental Science</i> , 2017 , 10, 101-106	25.4	42
280	High-rate hydrogen separation using an MIEC oxygen permeable membrane reactor. <i>AIChE Journal</i> , 2017 , 63, 1278-1286	3.6	21
279	Defects and Diffusion. <i>Green Chemistry and Sustainable Technology</i> , 2017 , 11-48	1.1	1
278	Fabrication and Characterization of MIEC Membranes. <i>Green Chemistry and Sustainable Technology</i> , 2017 , 95-143	1.1	1
277	Dual-Phase MIEC Membranes. <i>Green Chemistry and Sustainable Technology</i> , 2017 , 227-269	1.1	2

276	Introduction to Mixed IonicElectronic Conducting Membranes. <i>Green Chemistry and Sustainable Technology</i> , 2017 , 1-10	1.1	
275	Progress on the Commercialization of MIEC Membrane Technology. <i>Green Chemistry and Sustainable Technology</i> , 2017 , 351-367	1.1	
274	Ionic Conductors and Aspects Related to High Temperature. <i>Green Chemistry and Sustainable Technology</i> , 2017 , 49-93	1.1	
273	Oxygen Permeation at IntermediateLow Temperatures. <i>Green Chemistry and Sustainable Technology</i> , 2017 , 271-305	1.1	
272	Catalytic Reactions in MIEC Membrane Reactors. <i>Green Chemistry and Sustainable Technology</i> , 2017 , 307-350	1.1	
271	Permeation Principle and Models. <i>Green Chemistry and Sustainable Technology</i> , 2017 , 145-178	1.1	
270	Enhancement of oxygen evolution performance through synergetic action between NiFe metal core and NiFeO shell. <i>Chemical Communications</i> , 2016 , 52, 11803-11806	5.8	34
269	High performance carbon molecular sieving membranes derived from pyrolysis of metal-organic framework ZIF-108 doped polyimide matrices. <i>Chemical Communications</i> , 2016 , 52, 13779-13782	5.8	17
268	Conversion of xylose into furfural in a MOF-based mixed matrix membrane reactor. <i>Chemical Engineering Journal</i> , 2016 , 305, 12-18	14.7	32
267	Stability of sulfate doped SrCoO ₃ MIEC membrane. <i>Journal of Membrane Science</i> , 2016 , 501, 53-59	9.6	15
266	A "copolymer-co-morphology" conception for shape-controlled synthesis of Prussian blue analogues and as-derived spinel oxides. <i>Nanoscale</i> , 2016 , 8, 2333-42	7.7	47
265	Dual-ligand zeolitic imidazolate framework crystals and oriented films derived from metastable mono-ligand ZIF-108. <i>Microporous and Mesoporous Materials</i> , 2016 , 219, 190-198	5.3	15
264	Integration of Nine Steps into One Membrane Reactor To Produce Synthesis Gases for Ammonia and Liquid Fuel. <i>Angewandte Chemie</i> , 2016 , 128, 8708-8712	3.6	7
263	Integration of Nine Steps into One Membrane Reactor To Produce Synthesis Gases for Ammonia and Liquid Fuel. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8566-70	16.4	26
262	Oxygen transport kinetics of MIEC membranes coated with different catalysts. <i>AIChE Journal</i> , 2016 , 62, 2803-2812	3.6	14
261	Gel-type shell contributing to the high proton conductivity of pyrophosphates. <i>Ceramics International</i> , 2016 , 42, 9913-9920	5.1	2
260	A novel CAU-10-H MOF membrane for hydrogen separation under hydrothermal conditions. <i>Journal of Membrane Science</i> , 2016 , 513, 40-46	9.6	32
259	Improving oxygen permeation of MIEC membrane reactor by enhancing the electronic conductivity under intermediate-low oxygen partial pressures. <i>Journal of Membrane Science</i> , 2016 , 520, 607-615	9.6	39

258	Mixed matrix membranes incorporated with amine-functionalized titanium-based metal-organic framework for CO ₂ /CH ₄ separation. <i>Journal of Membrane Science</i> , 2015 , 478, 130-139	9.6	104
257	Degradation and stabilization of perovskite membranes containing silicon impurity at low temperature. <i>Journal of Membrane Science</i> , 2015 , 492, 173-180	9.6	12
256	Molecular sieve membranes: From 3D zeolites to 2D MOFs. <i>Chinese Journal of Catalysis</i> , 2015 , 36, 692-697	7.3	18
255	Nanoparticles at Grain Boundaries Inhibit the Phase Transformation of Perovskite Membrane. <i>Nano Letters</i> , 2015 , 15, 7678-83	11.5	37
254	Catalytic oxidative dehydrogenation of n-butane over V ₂ O ₅ /MO-Al ₂ O ₃ (M = Mg, Ca, Sr, Ba) catalysts. <i>Chinese Journal of Catalysis</i> , 2015 , 36, 1060-1067	11.3	11
253	Enhanced performance of solid oxide fuel cells by introducing a transition layer between nanostructured cathode and electrolyte. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 501-508	6.7	7
252	Mixed ionic-electronic conducting (MIEC) membranes for hydrogen production from water splitting. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 3452-3461	6.7	35
251	Recovery of HMF from aqueous solution by zeolitic imidazolate frameworks. <i>Chemical Engineering Science</i> , 2015 , 124, 170-178	4.4	48
250	One-pot synthesis of NiAl ₂ CO ₃ LDH anti-corrosion coatings from CO ₂ -saturated precursors. <i>RSC Advances</i> , 2015 , 5, 29552-29557	3.7	24
249	Degradation mechanism analysis of Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3-δ} membranes at intermediate-low temperatures. <i>AIChE Journal</i> , 2015 , 61, 3879-3888	3.6	30
248	In Situ Electrochemical Synthesis of Oriented and Defect-Free AEL Molecular-Sieve Films Using Ionic Liquids. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 13032-5	16.4	13
247	Confinement of Ionic Liquids in Nanocages: Tailoring the Molecular Sieving Properties of ZIF-8 for Membrane-Based CO ₂ Capture. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 15483-7	16.4	213
246	Significantly Enhanced Separation using ZIF-8 Membranes by Partial Conversion of Calcined Layered Double Hydroxide Precursors. <i>ChemSusChem</i> , 2015 , 8, 3582-6	8.3	30
245	Confinement of Ionic Liquids in Nanocages: Tailoring the Molecular Sieving Properties of ZIF-8 for Membrane-Based CO ₂ Capture. <i>Angewandte Chemie</i> , 2015 , 127, 15703-15707	3.6	47
244	In Situ Electrochemical Synthesis of Oriented and Defect-Free AEL Molecular-Sieve Films Using Ionic Liquids. <i>Angewandte Chemie</i> , 2015 , 127, 13224-13227	3.6	2
243	Asymmetric dual-phase membranes prepared via tape-casting and co-lamination for oxygen permeation. <i>Materials Letters</i> , 2015 , 147, 88-91	3.3	32
242	Pd and PdNi alloy composite membranes fabricated by electroless plating method on capillary Al ₂ O ₃ substrates. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 3548-3556	6.7	21
241	Mixed-matrix membranes containing functionalized porous metal-organic polyhedrons for the effective separation of CO ₂ -CH ₄ mixture. <i>Chemical Communications</i> , 2015 , 51, 4249-51	5.8	60

240	Metal-substituted zeolitic imidazolate framework ZIF-108: gas-sorption and membrane-separation properties. <i>Chemistry - A European Journal</i> , 2014 , 20, 11402-9	4.8	62
239	Single Crystal (Mn,Co) ₃ O ₄ Octahedra for Highly Efficient Oxygen Reduction Reactions. <i>Electrochimica Acta</i> , 2014 , 144, 31-41	6.7	29
238	New Membrane Architecture with High Performance: ZIF-8 Membrane Supported on Vertically Aligned ZnO Nanorods for Gas Permeation and Separation. <i>Chemistry of Materials</i> , 2014 , 26, 1975-1981	9.6	157
237	Synthesis of zeolitic imidazolate framework nanocrystals. <i>Materials Letters</i> , 2014 , 136, 341-344	3.3	12
236	Comparative investigation of dual-phase membranes containing cobalt and iron-based mixed conducting perovskite for oxygen permeation. <i>Journal of Membrane Science</i> , 2014 , 462, 170-177	9.6	31
235	Membranes. Metal-organic framework nanosheets as building blocks for molecular sieving membranes. <i>Science</i> , 2014 , 346, 1356-9	33.3	1129
234	Comparative permeation studies on three supported membranes: Pure ZIF-8, pure polymethylphenylsiloxane, and mixed matrix membranes. <i>Microporous and Mesoporous Materials</i> , 2014 , 189, 210-215	5.3	42
233	Ce _{0.85} Sm _{0.15} O _{1.925} Bm _{0.6} Sr _{0.4} Al _{0.3} Fe _{0.7} O ₃ dual-phase membranes: One-pot synthesis and stability in a CO ₂ atmosphere. <i>Solid State Ionics</i> , 2013 , 253, 57-63	3.3	57
232	Improvement of hydrothermal stability of zeolitic imidazolate frameworks. <i>Chemical Communications</i> , 2013 , 49, 9140-2	5.8	184
231	Electrochemical performances of spinel oxides as cathodes for intermediate temperature solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 1052-1057	6.7	31
230	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
229	Solvothermal synthesis of mixed-ligand metal-organic framework ZIF-78 with controllable size and morphology. <i>Microporous and Mesoporous Materials</i> , 2013 , 173, 29-36	5.3	59
228	Oxygen permeation through Ca-contained dual-phase membranes for oxyfuel CO ₂ capture. <i>Separation and Purification Technology</i> , 2013 , 114, 31-37	8.3	31
227	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
226	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
225	Dense ceramic oxygen permeable membranes and catalytic membrane reactors. <i>Chemical Engineering Journal</i> , 2013 , 220, 185-203	14.7	147
224	Stabilization of low-temperature degradation in mixed ionic and electronic conducting perovskite oxygen permeation membranes. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 3232-6	16.4	54
223	Metal-organic framework ZIF-8 nanocomposite membrane for efficient recovery of furfural via pervaporation and vapor permeation. <i>Journal of Membrane Science</i> , 2013 , 428, 498-506	9.6	114

222	Preparation of Silicalite-1 Membranes with Seeding Method and its Separation Performance for Low Ethanol/Water Mixture. <i>Advanced Materials Research</i> , 2013 , 807-809, 591-595	0.5	1
221	Stabilization of Low-Temperature Degradation in Mixed Ionic and Electronic Conducting Perovskite Oxygen Permeation Membranes. <i>Angewandte Chemie</i> , 2013 , 125, 3314-3318	3.6	10
220	High-performance low-temperature solid oxide fuel cells using thin proton-conducting electrolyte with novel cathode. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 8635-8640	6.7	21
219	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
218	Design and experimental investigation of oxide ceramic dual-phase membranes. <i>Journal of Membrane Science</i> , 2012 , 394-395, 120-130	9.6	36
217	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
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38	Synthesis of NaA zeolite membrane by microwave heating. <i>Separation and Purification Technology</i> , 2001 , 25, 241-249	8.3	85
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19	Effects of operation modes on the oxidation of propane to acrolein in a membrane reactor. <i>Studies in Surface Science and Catalysis</i> , 2000 , 130, 2705-2710	1.8	3
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