Huanting Wang

List of Publications by Citations

446 papers	22,778 citations	77 h-index	128 g-index
462 ext. papers	27,119 ext. citations	9.5 avg, IF	7.47 L-index

#	Paper	IF	Citations
446	Synthesis, morphology control, and properties of porous metal-organic coordination polymers. *Microporous and Mesoporous Materials*, **2003**, 58, 105-114	5.3	532
445	Zeolitic imidazolate framework composite membranes and thin films: synthesis and applications. *Chemical Society Reviews*, **2014**, 43, 4470-93	58.5	463
444	Recent developments in reverse osmosis desalination membranes. *Journal of Materials Chemistry*, **2010**, 20, 4551		395
443	Strategies for developing transition metal phosphides as heterogeneous electrocatalysts for water splitting. *Nano Today*, **2017**, 15, 26-55	17.9	367
442	A two-dimensional zeolitic imidazolate framework with a cushion-shaped cavity for CO2 adsorption. *Chemical Communications*, **2013**, 49, 9500-2	5.8	356
441	Facile fabrication of freestanding ultrathin reduced graphene oxide membranes for water purification. *Advanced Materials*, **2015**, 27, 249-54	24	342
440	TiO2 based photocatalytic membranes: A review. *Journal of Membrane Science*, **2014**, 472, 167-184	9.6	328
439	Nitrogen-Doped Nanoporous Carbon/Graphene Nano-Sandwiches: Synthesis and Application for Efficient Oxygen Reduction. *Advanced Functional Materials*, **2015**, 25, 5768-5777	15.6	328
438	High-performance ionic diode membrane for salinity gradient power generation. *Journal of the American Chemical Society*, **2014**, 136, 12265-72	16.4	322
437	Contra-diffusion synthesis of ZIF-8 films on a polymer substrate. *Chemical Communications*, **2011**, 47, 2559-61	5.8	261
436	Recent advances in polymer and polymer composite membranes for reverse and forward osmosis processes. *Progress in Polymer Science*, **2016**, 61, 104-155	29.6	250
435	Facile synthesis of zeolitic imidazolate framework-8 from a concentrated aqueous solution. *Microporous and Mesoporous Materials*, **2014**, 184, 55-60	5.3	247
434	Modified metal-organic frameworks as photocatalysts. *Applied Catalysis B: Environmental*, **2018**, 231, 317-342	21.8	243
433	Pure-Silica Zeolite Low-k Dielectric Thin Films. *Advanced Materials*, **2001**, 13, 746-749	24	237
432	Zeolitic Imidazolate Framework/Graphene Oxide Hybrid Nanosheets as Seeds for the Growth of Ultrathin Molecular Sieving Membranes. *Angewandte Chemie - International Edition*, **2016**, 55, 2048-52	16.4	230
431	Stimuli-responsive polymer hydrogels as a new class of draw agent for forward osmosis desalination. *Chemical Communications*, **2011**, 47, 1710-2	5.8	227
430	Rapid Construction of ZnO@ZIF-8 Heterostructures with Size-Selective Photocatalysis Properties. *ACS Applied Materials & Interfaces*, **2016**, 8, 9080-7	9.5	217

429	Ultrafast selective transport of alkali metal ions in metal organic frameworks with subnanometer pores. *Science Advances*, **2018**, 4, eaaq0066	14.3	214
428	Advances in reforming and partial oxidation of hydrocarbons for hydrogen production and fuel cell applications. *Renewable and Sustainable Energy Reviews*, **2018**, 82, 761-780	16.2	212
427	ZIF-8/Zn2GeO4 nanorods with an enhanced CO2 adsorption property in an aqueous medium for photocatalytic synthesis of liquid fuel. *Journal of Materials Chemistry A*, **2013**, 1, 11563	13	208
426	Fabrication of polyethersulfone-mesoporous silica nanocomposite ultrafiltration membranes with antifouling properties. *Journal of Membrane Science*, **2012**, 423-424, 362-370	9.6	203
425	Solar evaporation enhancement using floating light-absorbing magnetic particles. *Energy and Environmental Science*, **2011**, 4, 4074	35.4	200
424	Spatially isolating salt crystallisation from water evaporation for continuous solar steam generation and salt harvesting. *Energy and Environmental Science*, **2019**, 12, 1840-1847	35.4	198
423	Facile Synthesis of Hierarchically Porous Carbons from Dual Colloidal Crystal/Block Copolymer Template Approach. *Chemistry of Materials*, **2007**, 19, 3271-3277	9.6	193
422	Polyaniline nanowires by electropolymerization from liquid crystalline phases. *Journal of Materials Chemistry*, **2002**, 12, 388-391		189
421	A Versatile Iron-Tannin-Framework Ink Coating Strategy to Fabricate Biomass-Derived Iron Carbide/Fe-N-Carbon Catalysts for Efficient Oxygen Reduction. *Angewandte Chemie - International Edition*, **2016**, 55, 1355-9	16.4	181
420	Pure Silica Zeolite Films as Low-k Dielectrics by Spin-On of Nanoparticle Suspensions. *Advanced Materials*, **2001**, 13, 1463-1466	24	169
419	One-step hydrothermal synthesis of ordered mesostructured carbonaceous monoliths with hierarchical porosities. *Chemical Communications*, **2008**, 2641-3	5.8	167
418	Water-based synthesis of zeolitic imidazolate framework-8 with high morphology level at room temperature. *RSC Advances*, **2015**, 5, 48433-48441	3.7	162
417	Controlling size and yield of zeolite Y nanocrystals using tetramethylammonium bromide. *Microporous and Mesoporous Materials*, **2003**, 59, 13-28	5.3	158
416	Synthesis of template-free zeolite nanocrystals by using in situ thermoreversible polymer hydrogels. *Journal of the American Chemical Society*, **2003**, 125, 9928-9	16.4	157
415	Robust Thermoresponsive Polymer Composite Membrane with Switchable Superhydrophilicity and Superhydrophobicity for Efficient Oil-Water Separation. *Environmental Science & Technology*, **2016**, 50, 906-14	10.3	156
414	Metal oxide-based materials as an emerging family of hydrogen evolution electrocatalysts. *Energy and Environmental Science*, **2020**, 13, 3361-3392	35.4	151
413	Growth of g-C 3 N 4 on mesoporous TiO 2 spheres with high photocatalytic activity under visible light irradiation. *Applied Catalysis B: Environmental*, **2016**, 188, 342-350	21.8	147
412	Graphene oxide modified graphitic carbon nitride as a modifier for thin film composite forward osmosis membrane. *Journal of Membrane Science*, **2015**, 475, 281-289	9.6	145

411	Hydrothermal Synthesis of Metal-Polyphenol Coordination Crystals and Their Derived Metal/N-doped Carbon Composites for Oxygen Electrocatalysis. *Angewandte Chemie - International Edition*, **2016**, 55, 12470-4	16.4	140
410	Hydrophobic porous alumina hollow fiber for water desalination via membrane distillation process. *Journal of Membrane Science*, **2012**, 403-404, 41-46	9.6	136
409	A graphene-directed assembly route to hierarchically porous CoNx/C catalysts for high-performance oxygen reduction. *Journal of Materials Chemistry A*, **2015**, 3, 16867-16873	13	135
408	Decorating nanoporous ZIF-67-derived NiCo2O4 shells on a Co3O4 nanowire array core for battery-type electrodes with enhanced energy storage performance. *Journal of Materials Chemistry A*, **2016**, 4, 10878-10884	13	129
407	Preparation of polyethersulfone/carbon nanotube substrate for high-performance forward osmosis membrane. *Desalination*, **2013**, 330, 70-78	10.3	129
406	Graphene oxide/core–shell structured metal–organic framework nano-sandwiches and their derived cobalt/N-doped carbon nanosheets for oxygen reduction reactions. *Journal of Materials Chemistry A*, **2017**, 5, 10182-10189	13	128
405	Porous platinum nanowire arrays for direct ethanol fuel cell applications. *Chemical Communications*, **2009**, 195-7	5.8	127
404	Nanowire Arrays Electrodeposited from Liquid Crystalline Phases. *Advanced Materials*, **2002**, 14, 61-64	24	127
403	ZIF-8 derived nitrogen-doped porous carbon/carbon nanotube composite for high-performance supercapacitor. *Carbon*, **2017**, 121, 330-336	10.4	124
402	Nafion-bifunctional silica composite proton conductive membranes. *Journal of Materials Chemistry*, **2002**, 12, 834-837		123
401	Preparation of ZIF-8 membranes supported on ceramic hollow fibers from a concentrated synthesis gel. *Journal of Membrane Science*, **2011**, 385-386, 187-193	9.6	122
400	Homogeneous polymer–zeolite nanocomposite membranes by incorporating dispersible template-removed zeolite nanocrystals. *Journal of Materials Chemistry*, **2002**, 12, 3640-3643		122
399	Boosting Oxygen Evolution Reaction by Creating Both Metal Ion and Lattice-Oxygen Active Sites in a Complex Oxide. *Advanced Materials*, **2020**, 32, e1905025	24	122
398	2D Laminar Membranes for Selective Water and Ion Transport. *Advanced Functional Materials*, **2019**, 29, 1902014	15.6	121
397	Forward osmosis desalination using polymer hydrogels as a draw agent: influence of draw agent, feed solution and membrane on process performance. *Water Research*, **2013**, 47, 209-15	12.5	121
396	Efficient metal ion sieving in rectifying subnanochannels enabled by metal-organic frameworks. *Nature Materials*, **2020**, 19, 767-774	27	120
395	Crystal Transformation in Zeolitic-Imidazolate Framework. *Crystal Growth and Design*, **2014**, 14, 6589-6598	3.8	120
394	Composite polymer hydrogels as draw agents in forward osmosis and solar dewatering. *Soft Matter*, **2011**, 7, 10048	3.6	120

393	Synthesis of hierarchical porous zeolite NaY particles with controllable particle sizes. *Microporous and Mesoporous Materials*, **2010**, 127, 167-175	5.3	119
392	Oriented two-dimensional zeolitic imidazolate framework-L membranes and their gas permeation properties. *Journal of Materials Chemistry A*, **2015**, 3, 15715-15722	13	118
391	Unusual synergistic effect in layered Ruddlesden-Popper oxide enables ultrafast hydrogen evolution. *Nature Communications*, **2019**, 10, 149	17.4	116
390	High-yield synthesis of zeolitic imidazolate frameworks from stoichiometric metal and ligand precursor aqueous solutions at room temperature. *CrystEngComm*, **2013**, 15, 3601	3.3	116
389	Commercial PTFE membranes for membrane distillation application: Effect of microstructure and support material. *Desalination*, **2012**, 284, 297-308	10.3	115
388	2D Nanosheets and Their Composite Membranes for Water, Gas, and Ion Separation. *Angewandte Chemie - International Edition*, **2019**, 58, 17512-17527	16.4	111
387	Metal-polydopamine frameworks and their transformation to hollow metal/N-doped carbon particles. *Nanoscale*, **2017**, 9, 5323-5328	7.7	104
386	Use of Poly(furfuryl alcohol) in the Fabrication of Nanostructured Carbons and Nanocomposites. *Industrial & Engineering Chemistry Research*, **2006**, 45, 6393-6404	3.9	102
385	High silica zeolite Y nanocrystals by dealumination and direct synthesis. *Microporous and Mesoporous Materials*, **2004**, 74, 189-198	5.3	99
384	Cuprite Nanowires by Electrodeposition from Lyotropic Reverse Hexagonal Liquid Crystalline Phase. *Chemistry of Materials*, **2002**, 14, 876-880	9.6	99
383	Effect of particle size on the performance of forward osmosis desalination by stimuli-responsive polymer hydrogels as a draw agent. *Chemical Engineering Journal*, **2013**, 215-216, 913-920	14.7	98
382	Controllable synthesis of mesoporous carbon nanospheres and Fe-N/carbon nanospheres as efficient oxygen reduction electrocatalysts. *Nanoscale*, **2015**, 7, 6247-54	7.7	93
381	Preparation of supported carbon membranes from furfuryl alcohol by vapor deposition polymerization. *Journal of Membrane Science*, **2000**, 177, 25-31	9.6	91
380	Rapid synthesis of ultrathin, defect-free ZIF-8 membranes via chemical vapour modification of a polymeric support. *Chemical Communications*, **2015**, 51, 11474-7	5.8	90
379	Nafion□arbon Nanocomposite Membranes Prepared Using Hydrothermal Carbonization for Proton-Exchange-Membrane Fuel Cells. *Advanced Functional Materials*, **2010**, 20, 4394-4399	15.6	90
378	Fast and selective fluoride ion conduction in sub-1-nanometer metal-organic framework channels. *Nature Communications*, **2019**, 10, 2490	17.4	89
377	Significantly enhanced water flux in forward osmosis desalination with polymer-graphene composite hydrogels as a draw agent. *RSC Advances*, **2013**, 3, 887-894	3.7	85
376	Toluene-assisted synthesis of RHO-type zeolitic imidazolate frameworks: synthesis and formation mechanism of ZIF-11 and ZIF-12. *Dalton Transactions*, **2013**, 42, 16608-13	4.3	84

375	Bifunctional polymer hydrogel layers as forward osmosis draw agents for continuous production of fresh water using solar energy. *Environmental Science & Technology*, **2013**, 47, 13160-6	10.3	84
374	Thermo-sensitive polyelectrolytes as draw solutions in forward osmosis process. *Desalination*, **2013**, 318, 48-55	10.3	84
373	The effect of reduction degree of GO nanosheets on microstructure and performance of PVDF/GO hybrid membranes. *Journal of Membrane Science*, **2016**, 501, 169-178	9.6	81
372	Homochiral MOF-Polymer Mixed Matrix Membranes for Efficient Separation of Chiral Molecules. *Angewandte Chemie - International Edition*, **2019**, 58, 16928-16935	16.4	77
371	Graphene oxide incorporated thin film nanocomposite membrane at low concentration monomers. *Journal of Membrane Science*, **2018**, 565, 380-389	9.6	77
370	Preparation of colloidal microporous carbon spheres from furfuryl alcohol. *Carbon*, **2005**, 43, 1709-1715	10.4	77
369	GO-guided direct growth of highly oriented metal-organic framework nanosheet membranes for H/CO separation. *Chemical Science*, **2018**, 9, 4132-4141	9.4	76
368	Hollow carbon beads for significant water evaporation enhancement. *Chemical Engineering Science*, **2014**, 116, 704-709	4.4	76
367	Ni(OH)2 decorated rutile TiO2 for efficient removal of tetracycline from wastewater. *Applied Catalysis B: Environmental*, **2016**, 198, 224-233	21.8	74
366	Effect of addition of two-dimensional ZIF-L nanoflakes on the properties of polyethersulfone ultrafiltration membrane. *Journal of Membrane Science*, **2014**, 460, 9-17	9.6	74
365	Cubes of zeolite A with an amorphous core. *Angewandte Chemie - International Edition*, **2008**, 47, 8397-9	16.4	74
364	Direct electrodeposition of porous gold nanowire arrays for biosensing applications. *ChemPhysChem*, **2009**, 10, 436-41	3.2	73
363	Ultrathin water-stable metal-organic framework membranes for ion separation. *Science Advances*, **2020**, 6, eaay3998	14.3	72
362	Fast deswelling of nanocomposite polymer hydrogels via magnetic field-induced heating for emerging FO desalination. *Environmental Science & Technology*, **2013**, 47, 6297-305	10.3	72
361	Nafion/polyfurfuryl alcohol nanocomposite membranes for direct methanol fuel cells. *Journal of Membrane Science*, **2005**, 246, 95-101	9.6	71
360	Seeded growth of ZIF-8 on the surface of carbon nanotubes towards self-supporting gas separation membranes. *Journal of Materials Chemistry A*, **2013**, 1, 9208	13	70
359	Facile fabrication of porous ZnO by thermal treatment of zeolitic imidazolate framework-8 and its photocatalytic activity. *Journal of Alloys and Compounds*, **2013**, 551, 125-130	5.7	70
358	Synthesis and Corrosion Resistance of High-Silica Zeolite MTW, BEA, and MFI Coatings on Steel and Aluminum. *Journal of the Electrochemical Society*, **2002**, 149, B472	3.9	70

357	Polycrystalline Advanced Microporous Framework Membranes for Efficient Separation of Small Molecules and Ions. *Advanced Materials*, **2020**, 32, e1902009	24	70
356	Bioinspired Smart Gate-Location-Controllable Single Nanochannels: Experiment and Theoretical Simulation. *ACS Nano*, **2015**, 9, 12264-73	16.7	69
355	Sol-Gel Synthesis of Metal-Phenolic Coordination Spheres and Their Derived Carbon Composites. *Angewandte Chemie - International Edition*, **2018**, 57, 9838-9843	16.4	69
354	Thin-Film Nanocomposite Forward-Osmosis Membranes on Hydrophilic Microfiltration Support with an Intermediate Layer of Graphene Oxide and Multiwall Carbon Nanotube. *ACS Applied Materials & Interfaces*, **2018**, 10, 34464-34474	9.5	69
353	Direct synthesis of zeolitic imidazolate framework-8/chitosan composites in chitosan hydrogels. *Microporous and Mesoporous Materials*, **2013**, 165, 200-204	5.3	68
352	Highly crosslinked, chlorine tolerant polymer network entwined graphene oxide membrane for water desalination. *Journal of Materials Chemistry A*, **2017**, 5, 1533-1540	13	67
351	Effect of carbonization temperature on adsorption property of ZIF-8 derived nanoporous carbon for water treatment. *Microporous and Mesoporous Materials*, **2016**, 236, 28-37	5.3	67
350	Aqueous Phase Synthesis of ZIF-8 Membrane with Controllable Location on an Asymmetrically Porous Polymer Substrate. *ACS Applied Materials & Interfaces*, **2016**, 8, 6236-44	9.5	67
349	Incorporation of Homochirality into a Zeolitic Imidazolate Framework Membrane for Efficient Chiral Separation. *Angewandte Chemie - International Edition*, **2018**, 57, 17130-17134	16.4	67
348	Directly growing hierarchical nickel-copper hydroxide nanowires on carbon fibre cloth for efficient electrooxidation of ammonia. *Applied Catalysis B: Environmental*, **2017**, 218, 470-479	21.8	65
347	Noble-metal single-atoms in thermocatalysis, electrocatalysis, and photocatalysis. *Energy and Environmental Science*, **2021**, 14, 2954-3009	35.4	64
346	Modification of PES membrane with Ag□SiO2: Reduction of biofouling and improvement of filtration performance. *Desalination*, **2014**, 336, 8-17	10.3	63
345	Oscillatory Reaction Induced Periodic C-Quadruplex DNA Gating of Artificial Ion Channels. *ACS Nano*, **2017**, 11, 3022-3029	16.7	62
344	Graphene-Directed Supramolecular Assembly of Multifunctional Polymer Hydrogel Membranes. *Advanced Functional Materials*, **2015**, 25, 126-133	15.6	62
343	Scalable TiCT MXene Interlayered Forward Osmosis Membranes for Enhanced Water Purification and Organic Solvent Recovery. *ACS Nano*, **2020**, 14, 9125-9135	16.7	62
342	Smart draw agents for emerging forward osmosis application. *Journal of Materials Chemistry A*, **2013**, 1, 14049	13	62
341	A novel method to enhance rate performance of an Al-doped Li4Ti5O12 electrode by post-synthesis treatment in liquid formaldehyde at room temperature. *Journal of Materials Chemistry*, **2012**, 22, 8013		62
340	The influence of tetraethylorthosilicate and polyethyleneimine on the performance of polyethersulfone membranes. *Desalination*, **2012**, 287, 61-70	10.3	61

339	Self-assembled one-dimensional MnO2@zeolitic imidazolate framework-8 nanostructures for highly efficient arsenite removal. *Environmental Science: Nano*, **2016**, 3, 1186-1194	7.1	60
338	The enhanced hydrogen separation performance of mixed matrix membranes by incorporation of two-dimensional ZIF-L into polyimide containing hydroxyl group. *Journal of Membrane Science*, **2018**, 549, 260-266	9.6	60
337	Oriented MOF-polymer composite nanofiber membranes for high proton conductivity at high temperature and anhydrous condition. *Scientific Reports*, **2014**, 4, 4334	4.9	59
336	Aqueous solution synthesis of ZIF-8 films on a porous nylon substrate by contra-diffusion method. *Microporous and Mesoporous Materials*, **2013**, 179, 10-16	5.3	59
335	Surface patterned porous films by convection-assisted dynamic self-assembly of zeolite nanoparticles. *Langmuir*, **2001**, 17, 2572-4	4	59
334	An ordered ZIF-8-derived layered double hydroxide hollow nanoparticles-nanoflake array for high efficiency energy storage. *Journal of Materials Chemistry A*, **2016**, 4, 16953-16960	13	59
333	Precisely tailoring ZIF-67 nanostructures from cobalt carbonate hydroxide nanowire arrays: toward high-performance battery-type electrodes. *Journal of Materials Chemistry A*, **2015**, 3, 16688-16694	13	58
332	Preparation of a hybrid Cu2O/CuMoO4 nanosheet electrode for high-performance asymmetric supercapacitors. *Journal of Materials Chemistry A*, **2016**, 4, 17749-17756	13	58
331	Simultaneous generation of oxygen vacancies on ultrathin BiOBr nanosheets during visible-light-driven CO2 photoreduction evoked superior activity and long-term stability. *Catalysis Today*, **2018**, 314, 20-27	5.3	57
330	Synthesis and Evaluation of Pure-Silica-Zeolite BEA as Low Dielectric Constant Material for Microprocessors *Industrial & Engineering Chemistry Research*, **2004**, 43, 2946-2949	3.9	57
329	Single-strand spider silk templating for the formation of hierarchically ordered hollow mesoporous silica fibers. *Journal of Materials Chemistry*, **2003**, 13, 666-668		57
328	Synergistically enhanced hydrogen evolution electrocatalysis by in situ exsolution of metallic nanoparticles on perovskites. *Journal of Materials Chemistry A*, **2018**, 6, 13582-13587	13	56
327	Hollow zeolite structures formed by crystallization in crosslinked polyacrylamide hydrogels. *Journal of Materials Chemistry*, **2008**, 18, 3337		56
326	Strategies for controlling crystal structure and reducing usage of organic ligand and solvents in the synthesis of zeolitic imidazolate frameworks. *CrystEngComm*, **2015**, 17, 4970-4976	3.3	55
325	Supramolecular Self-Assembly Induced Adjustable Multiple Gating States of Nanofluidic Diodes. *Journal of the American Chemical Society*, **2016**, 138, 16372-16379	16.4	55
324	A Versatile Iron–Tannin-Framework Ink Coating Strategy to Fabricate Biomass-Derived Iron Carbide/Fe-N-Carbon Catalysts for Efficient Oxygen Reduction. *Angewandte Chemie*, **2016**, 128, 1377-1381	3.6	55
323	Bio-inspired smart single asymmetric hourglass nanochannels for continuous shape and ion transport control. *Small*, **2015**, 11, 786-91	11	54
322	Highly permeable thermally rearranged polymer composite membranes with a graphene oxide scaffold for gas separation. *Journal of Materials Chemistry A*, **2018**, 6, 7668-7674	13	54

321	Zeolitic Imidazolate Framework/Graphene Oxide Hybrid Nanosheets as Seeds for the Growth of Ultrathin Molecular Sieving Membranes. *Angewandte Chemie*, **2016**, 128, 2088-2092	3.6	53
320	Three-dimensional branched single-crystal Co(OH)2 nanowire array and its application for supercapacitor with excellent electrochemical property. *Nano Energy*, **2014**, 10, 153-162	17.1	53
319	Synthesis of uniform periodic mesoporous organosilica hollow spheres with large-pore size and efficient encapsulation capacity for toluene and the large biomolecule bovine serum albumin. *Microporous and Mesoporous Materials*, **2010**, 132, 543-551	5.3	53
318	Colloidal suspensions of template-removed zeolite nanocrystals. *Chemical Communications*, **2000**, 2333-2334	5.8	53
317	A sunlight-responsive metal–organic framework system for sustainable water desalination. *Nature Sustainability*, **2020**, 3, 1052-1058	22.1	53
316	Pt-coated InN nanorods for selective detection of hydrogen at room temperature. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **2005**, 23, 1891		52
315	Enhancement of desalination performance of thin-film nanocomposite membrane by cellulose nanofibers. *Journal of Membrane Science*, **2019**, 592, 117363	9.6	50
314	Characteristics of Ni/YSZ ceramic anode prepared using carbon microspheres as a pore former. *International Journal of Hydrogen Energy*, **2012**, 37, 15311-15319	6.7	50
313	In Situ Crystallization of Macroporous Monoliths with Hollow NaP Zeolite Structure. *Chemistry of Materials*, **2010**, 22, 5271-5278	9.6	50
312	Role of Pores in the Carbothermal Reduction of Carbon–Silica Nanocomposites into Silicon Carbide Nanostructures. *Journal of Physical Chemistry C*, **2007**, 111, 636-641	3.8	50
311	Nanostructured zeolite 4A molecular sieving air separation membranes. *Chemical Communications*, **2002**, 1708-9	5.8	50
310	Structure induced selective adsorption performance of ZIF-8 nanocrystals in water. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2017**, 520, 661-667	5.1	49
309	Enhancement of the Antifouling Properties and Filtration Performance of Poly(ethersulfone) Ultrafiltration Membranes by Incorporation of Nanoporous Titania Nanoparticles. *Industrial & Engineering Chemistry Research*, **2015**, 54, 11188-11198	3.9	49
308	Single-phase perovskite oxide with super-exchange induced atomic-scale synergistic active centers enables ultrafast hydrogen evolution. *Nature Communications*, **2020**, 11, 5657	17.4	49
307	Synthesis of stable UiO-66 membranes for pervaporation separation of methanol/methyl tert-butyl ether mixtures by secondary growth. *Journal of Membrane Science*, **2017**, 544, 342-350	9.6	49
306	Solution combustion synthesis of high-rate performance carbon-coated lithium iron phosphate from inexpensive iron (III) raw material. *Journal of Materials Chemistry*, **2012**, 22, 2900-2907		49
305	Dual-Porosity Carbon Templated from Monosize Mesoporous Silica Nanoparticles. *Chemistry of Materials*, **2007**, 19, 2786-2795	9.6	49
304	Thin-Film Composite Membrane with Interlayer Decorated Metal–Organic Framework UiO-66 toward Enhanced Forward Osmosis Performance. *Industrial & Engineering Chemistry Research*, **2019**, 58, 195-206	3.9	49

303	Direct electrodeposition of Pt nanotube arrays and their enhanced electrocatalytic activities. *Electrochemistry Communications*, **2009**, 11, 190-193	5.1	48
302	Formation of Colloidal Hydroxy-Sodalite Nanocrystals by the Direct Transformation of Silicalite Nanocrystals. *Chemistry of Materials*, **2006**, 18, 1394-1396	9.6	48
301	Preparation of porous ceramics by gelcasting approach. *Materials Letters*, **2000**, 45, 224-227	3.3	48
300	Zeolitic imidazolate framework-8 film coated stainless steel meshes for highly efficient oil/water separation. *Chemical Communications*, **2018**, 54, 5530-5533	5.8	47
299	Direct conversion of two-dimensional ZIF-L film to porous ZnO nano-sheet film and its performance as photoanode in dye-sensitized solar cell. *Microporous and Mesoporous Materials*, **2014**, 194, 1-7	5.3	47
298	Direct electrodeposition of gold nanotube arrays for sensing applications. *Journal of Materials Chemistry*, **2008**, 18, 463-467		47
297	A low-pressure GO nanofiltration membrane crosslinked via ethylenediamine. *Journal of Membrane Science*, **2018**, 548, 363-371	9.6	47
296	Effect of the addition of polyvinylpyrrolidone as a pore-former on microstructure and mechanical strength of porous alumina ceramics. *Ceramics International*, **2013**, 39, 7551-7556	5.1	46
295	Infiltration of precursors into a porous alumina support for ZIF-8 membrane synthesis. *Microporous and Mesoporous Materials*, **2013**, 168, 15-18	5.3	46
294	Hierarchical zeolite structures with designed shape by gel-casting of colloidal nanocrystal suspensions. *Chemical Communications*, **2001**, 1364-1365	5.8	46
293	Tuning the morphology of bismuth ferrite nano- and microcrystals: from sheets to fibers. *Small*, **2007**, 3, 1523-8	11	45
292	A solvent-assisted ligand exchange approach enables metal-organic frameworks with diverse and complex architectures. *Nature Communications*, **2020**, 11, 927	17.4	44
291	Synthesis of Zeolitic Imidazolate Framework-7 in a Water/Ethanol Mixture and Its Ethanol-Induced Reversible Phase Transition. *ChemPlusChem*, **2013**, 78, 1222-1225	2.8	44
290	Simple fabrication of zeolitic imidazolate framework ZIF-8/polymer composite beads by phase inversion method for efficient oil sorption. *Journal of Colloid and Interface Science*, **2017**, 493, 150-161	9.3	43
289	Super-Exchange Interaction Induced Overall Optimization in Ferromagnetic Perovskite Oxides Enables Ultrafast Water Oxidation. *Small*, **2019**, 15, e1903120	11	43
288	Carbon composite membrane derived from a two-dimensional zeolitic imidazolate framework and its gas separation properties. *Carbon*, **2014**, 72, 242-249	10.4	43
287	High-flux ceramic membranes with a nanomesh of metal oxide nanofibers. *Journal of Physical Chemistry B*, **2008**, 112, 5000-6	3.4	43
286	Hollow carbon beads fabricated by phase inversion method for efficient oil sorption. *Carbon*, **2014**, 69, 25-31	10.4	42

285	Investigation of the effects of ion and water interaction on structure and chemistry of silicalite MFI type zeolite for its potential use as a seawater desalination membrane. *Journal of Materials Chemistry*, **2010**, 20, 4675		42
284	Ni1Cux alloy-based anodes for low-temperature solid oxide fuel cells with biomass-produced gas as fuel. *Journal of Power Sources*, **2006**, 161, 1056-1061	8.9	42
283	Non-swelling graphene oxide-polymer nanocomposite membrane for reverse osmosis desalination. *Journal of Membrane Science*, **2018**, 562, 47-55	9.6	42
282	The synergetic effect of N-doped graphene and silver nanowires for high electrocatalytic performance in the oxygen reduction reaction. *RSC Advances*, **2013**, 3, 11552	3.7	41
281	Growth of SAPO-34 in polymer hydrogels through vapor-phase transport. *Microporous and Mesoporous Materials*, **2005**, 85, 267-272	5.3	41
280	Composite ultrafiltration membranes from polymer and its quaternary phosphonium-functionalized derivative with enhanced water flux. *Journal of Membrane Science*, **2015**, 482, 67-75	9.6	40
279	Electrospinning preparation of PAN/TiO2/PANI hybrid fiber membrane with highly selective adsorption and photocatalytic regeneration properties. *Chemical Engineering Journal*, **2020**, 399, 125749	14.7	40
278	In situ growth of Co3O4 nanoparticles on MnO2 nanotubes: a new hybrid for high-performance supercapacitors. *Journal of Materials Chemistry A*, **2014**, 2, 8465-8471	13	40
277	Mutation burden and other molecular markers of prognosis in colorectal cancer treated with curative intent: results from the QUASAR 2 clinical trial and an Australian community-based series. *The Lancet Gastroenterology and Hepatology*, **2018**, 3, 635-643	18.8	40
276	Bifunctional plasmonic-magnetic particles for an enhanced microfluidic SERS immunoassay. *Nanoscale*, **2017**, 9, 7822-7829	7.7	39
275	Porous diffusion dialysis membranes for rapid acid recovery. *Journal of Membrane Science*, **2016**, 502, 76-83	9.6	39
274	Temperature-induced oriented growth of large area, few-layer 2D metal-organic framework nanosheets. *Chemical Communications*, **2017**, 53, 13161-13164	5.8	39
273	Self-Template Synthesis of Mesoporous Metal Oxide Spheres with Metal-Mediated Inner Architectures and Superior Sensing Performance. *Advanced Functional Materials*, **2018**, 28, 1806144	15.6	39
272	Preparation of porous diffusion dialysis membranes by functionalization of polysulfone for acid recovery. *Journal of Membrane Science*, **2017**, 524, 557-564	9.6	38
271	Synthesis of NiMoS4for High-Performance Hybrid Supercapacitors. *Journal of the Electrochemical Society*, **2017**, 164, A2881-A2888	3.9	37
270	Fabrication of asymmetrical diffusion dialysis membranes for rapid acid recovery with high purity. *Journal of Materials Chemistry A*, **2015**, 3, 24000-24007	13	37
269	Formation and photocatalytic properties of bismuth ferrite submicrocrystals with tunable morphologies. *New Journal of Chemistry*, **2011**, 35, 937	3.6	37
268	Unique hybrid NiP/MoO@MoS nanomaterials as bifunctional non-noble-metal electro-catalysts for water splitting. *Nanoscale*, **2017**, 9, 17349-17356	7.7	36

267	Voltage-Gated Ion Transport in Two-Dimensional Sub-1 nm Nanofluidic Channels. *ACS Nano*, **2019**, 13, 11793-11799	16.7	36
266	A general route to the synthesis of layer-by-layer structured metal organic framework/graphene oxide hybrid films for high-performance supercapacitor electrodes. *Journal of Materials Chemistry A* , **2017**, 5, 16865-16872	13	36
265	Formation of ZIF-8 membranes and crystals in a diluted aqueous solution. *Materials Chemistry and Physics*, **2013**, 139, 1003-1008	4.4	36
264	Eggshell membrane-templated synthesis of highly crystalline perovskite ceramics for solid oxide fuel cells. *Journal of Materials Chemistry*, **2011**, 21, 1028-1032		36
263	Synthesis of Carbonaceous Poly(furfuryl alcohol) Membrane for Water Desalination. *Industrial & Engineering Chemistry Research*, **2010**, 49, 4175-4180	3.9	36
262	A metal-ion-assisted assembly approach to synthesize disulfide-bridged periodical mesoporous organosilicas with high sulfide contents and efficient adsorption. *Applied Surface Science*, **2010**, 256, 5334-5342	6.7	36
261	Preparation and gas permeation of nano-sized zeolite NaA-filled carbon membranes. *Separation and Purification Technology*, **2008**, 63, 628-633	8.3	36
260	Nickel aluminate spinel reinforced ceramic hollow fibre membrane. *Journal of Membrane Science*, **2014**, 450, 418-424	9.6	35
259	One-step fabrication of ZIF-8/polymer composite spheres by a phase inversion method for gas adsorption. *Colloid and Polymer Science*, **2013**, 291, 2711-2717	2.4	35
258	Controlling zeolite structures and morphologies using polymer networks. *Journal of Materials Chemistry*, **2010**, 20, 9827		35
257	A novel clean and effective syngas production system based on partial oxidation of methane assisted solid oxide co-electrolysis process. *Journal of Power Sources*, **2015**, 277, 261-267	8.9	34
256	Growth of zeolite crystals with graphene oxide nanosheets. *Chemical Communications*, **2012**, 48, 2249-51	5.8	34
255	Characteristics of YSZ synthesized with a glycine-nitrate process. *Ceramics International*, **2008**, 34, 1773-1778	5.1	34
254	Hydrogel-polyurethane interpenetrating network material as an advanced draw agent for forward osmosis process. *Water Research*, **2016**, 96, 292-8	12.5	34
253	Self-Assembled Ruddlesden-Popper/Perovskite Hybrid with Lattice-Oxygen Activation as a Superior Oxygen Evolution Electrocatalyst. *Small*, **2020**, 16, e2001204	11	34
252	Chlorine-anion doping induced multi-factor optimization in perovskties for boosting intrinsic oxygen evolution. *Journal of Energy Chemistry*, **2021**, 52, 115-120	12	34
251	Graphene/titanium carbide composites prepared by sol–gel infiltration and spark plasma sintering. *Ceramics International*, **2016**, 42, 122-131	5.1	33
250	Morphology-dependent performance of Zn2GeO4 as a high-performance anode material for rechargeable lithium ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 15274-15279	13	33

249	Zirconium Metal□Organic Framework Materials for Efficient Ion Adsorption and Sieving. *Industrial & Engineering Chemistry Research*, **2020**, 59, 12907-12923	3.9	33
248	A new empirical viscosity model for ceramic suspensions. *Chemical Engineering Science*, **2011**, 66, 2798-2806	4	33
247	Zinc/ZnO core□shell hexagonal nanodisk dendrites and their photoluminescence. *Acta Materialia*, **2007**, 55, 5039-5044	8.4	33
246	Hierarchical porous structures by using zeolite nanocrystals as building blocks. *Microporous and Mesoporous Materials*, **2001**, 48, 73-78	5.3	33
245	Pyrite-type ruthenium disulfide with tunable disorder and defects enables ultra-efficient overall water splitting. *Journal of Materials Chemistry A*, **2019**, 7, 14222-14232	13	32
244	2D Nanosheets and Their Composite Membranes for Water, Gas, and Ion Separation. *Angewandte Chemie*, **2019**, 131, 17674-17689	3.6	32
243	Unidirectional and Selective Proton Transport in Artificial Heterostructured Nanochannels with Nano-to-Subnano Confined Water Clusters. *Advanced Materials*, **2020**, 32, e2001777	24	32
242	Hydrothermal preparation of hierarchical ZIF-L nanostructures for enhanced CO capture. *Journal of Colloid and Interface Science*, **2018**, 519, 38-43	9.3	32
241	Hydrothermal Synthesis of Metal□Polyphenol Coordination Crystals and Their Derived Metal/N-doped Carbon Composites for Oxygen Electrocatalysis. *Angewandte Chemie*, **2016**, 128, 12658-12662	3.6	32
240	Highly stable hydrophobic SiNCO nanoparticle-modified silicon nitride membrane for zero-discharge water desalination. *AICHE Journal*, **2017**, 63, 1272-1277	3.6	32
239	Self-curled coral-like □AlO□ nanoplates for use as an adsorbent. *Journal of Colloid and Interface Science*, **2015**, 453, 244-251	9.3	31
238	RuCo alloy bimodal nanoparticles embedded in N-doped carbon: a superior pH-universal electrocatalyst outperforms benchmark Pt for the hydrogen evolution reaction. *Journal of Materials Chemistry A*, **2020**, 8, 12810-12820	13	31
237	Synthesis and characterization of sodalite□polyimide nanocomposite membranes. *Microporous and Mesoporous Materials*, **2009**, 126, 14-19	5.3	31
236	Porous □Al2O3 ceramics prepared by gelcasting. *Materials Research Bulletin*, **1997**, 32, 1705-1712	5.1	31
235	Preparation of nanoporous graphene oxide by nanocrystal-masked etching: toward a nacre-mimetic metal□organic framework molecular sieving membrane. *Journal of Materials Chemistry A*, **2017**, 5, 16255-16262	13	30
234	Achieving Both High Selectivity and Current Density for CO2 Reduction to Formate on Nanoporous Tin Foam Electrocatalysts. *ChemistrySelect*, **2016**, 1, 1711-1715	1.8	30
233	SiC nanofiber reinforced porous ceramic hollow fiber membranes. *Journal of Materials Chemistry A*, **2014**, 2, 5841	13	30
232	Response to osmotic pressure versus swelling pressure: comment on "bifunctional polymer hydrogel layers as forward osmosis draw agents for continuous production of fresh water using solar energy". *Environmental Science & Technology*, **2014**, 48, 4214-5	10.3	30

231	Investigation of reinforcement of porous alumina by nickel aluminate spinel for its use as ceramic membrane. *Journal of Membrane Science*, **2013**, 444, 252-258	9.6	30
230	Bio-inspired porous antenna-like nanocube/nanowire heterostructure as ultra-sensitive cellular interfaces. *NPG Asia Materials*, **2014**, 6, e117-e117	10.3	30
229	Synthesis of nanostructured silicon carbide spheres from mesoporous C-SiO2 nanocomposites. *Chemical Communications*, **2010**, 46, 303-5	5.8	30
228	Nafion-polyfurfuryl alcohol nanocomposite membranes with low methanol permeation. *Chemical Communications*, **2004**, 728-9	5.8	30
227	Surface modification of chitosan membranesby alkane vapor plasma. *Journal of Materials Chemistry* , **2001**, 11, 1374-1377		30
226	Synthesis and Evolution of Zirconium Carbide via Sol□el Route: Features of Nanoparticle Oxide□arbon Reactions. *Journal of the American Ceramic Society*, **2013**, 96, 1099-1106	3.8	29
225	Incorporation of Homochirality into a Zeolitic Imidazolate Framework Membrane for Efficient Chiral Separation. *Angewandte Chemie*, **2018**, 130, 17376-17380	3.6	29
224	Thin-film composite polyamide membrane modified by embedding functionalized boron nitride nanosheets for reverse osmosis. *Journal of Membrane Science*, **2020**, 611, 118389	9.6	28
223	Thermoresponsive Amphoteric Metal-Organic Frameworks for Efficient and Reversible Adsorption of Multiple Salts from Water. *Advanced Materials*, **2018**, 30, e1802767	24	28
222	Synthesis of nanocrystalline sodalite with organic additives. *Materials Letters*, **2008**, 62, 4028-4030	3.3	28
221	Protein loaded mesoporous silica spheres as a controlled delivery platform. *Journal of Chemical Technology and Biotechnology*, **2008**, 83, 351-358	3.5	28
220	Microporous carbon from fullerene impregnated porous aromatic frameworks for improving the desalination performance of thin film composite forward osmosis membranes. *Journal of Materials Chemistry A*, **2018**, 6, 11327-11336	13	28
219	Efficient Gating of Ion Transport in Three-Dimensional Metal-Organic Framework Sub-Nanochannels with Confined Light-Responsive Azobenzene Molecules. *Angewandte Chemie - International Edition*, **2020**, 59, 13051-13056	16.4	27
218	Formation of novel mesoporous TiC microspheres through a sol□el and carbothermal reduction process. *Journal of the European Ceramic Society*, **2012**, 32, 3407-3414	6	27
217	Carbon Nanotube/Alumina/Polyethersulfone Hybrid Hollow Fiber Membranes with Enhanced Mechanical and Anti-Fouling Properties. *Nanomaterials*, **2015**, 5, 1366-1378	5.4	27
216	Ab Initio Simulations To Understand the Leaf-Shape Crystal Morphology of ZIF-L with Two-Dimensional Layered Network. *Journal of Physical Chemistry C*, **2017**, 121, 2221-2227	3.8	26
215	Solvation Effects on the Permeation and Aging Performance of PIM-1-Based MMMs for Gas Separation. *ACS Applied Materials & Interfaces*, **2019**, 11, 6502-6511	9.5	26
214	A one-dimensional material as a nano-scaffold and a pseudo-seed for facilitated growth of ultrathin, mechanically reinforced molecular sieving membranes. *Chemical Communications*, **2016**, 52, 13764-13767	5.8	26

213	Slow hydrophobic hydration induced polymer ultrafiltration membranes with high water flux. *Journal of Membrane Science*, **2014**, 471, 27-34	9.6	26
212	Solid lithium electrolyte-Li4Ti5O12 composites as anodes of lithium-ion batteries showing high-rate performance. *Journal of Power Sources*, **2013**, 231, 177-185	8.9	26
211	A hierarchical adsorption material by incorporating mesoporous carbon into macroporous chitosan membranes. *Journal of Materials Chemistry*, **2012**, 22, 11908		26
210	Hydrothermal growth of titania nanostructures with tunable phase and shape. *Materials Letters*, **2007**, 61, 4610-4613	3.3	26
209	Preparation of TiO2 hollow fibers using poly(vinylidene fluoride) hollow fiber microfiltration membrane as a template. *Materials Chemistry and Physics*, **2005**, 94, 322-327	4.4	26
208	A self-rotating solar evaporator for continuous and efficient desalination of hypersaline brine. *Journal of Materials Chemistry A*, **2020**, 8, 16212-16217	13	26
207	Synthesis of Li2Ni2(MoO4)3 as a high-performance positive electrode for asymmetric supercapacitors. *RSC Advances*, **2017**, 7, 13304-13311	3.7	25
206	Improved filtration performance and antifouling properties of polyethersulfone ultrafiltration membranes by blending with carboxylic acid functionalized polysulfone.. *RSC Advances*, **2018**, 8, 7774-7784	3.7	25
205	Synthesis and Characterization of Chitosan-Grafted BPPO Ultrafiltration Composite Membranes with Enhanced Antifouling and Antibacterial Properties. *Industrial & Engineering Chemistry Research*, **2014**, 53, 14974-14981	3.9	25
204	Role of ethanol in sodalite crystallization in an ethanol□Na2O□Al2O3□SiO2□H2O system. *CrystEngComm*, **2011**, 13, 4714	3.3	25
203	One-step fabrication of ordered Pt□u alloy nanotube arrays for ethanol electrooxidation. *Materials Letters*, **2010**, 64, 1169-1172	3.3	25
202	Synthesis of pure-silica MTW powder and supported films. *Microporous and Mesoporous Materials*, **2002**, 54, 175-186	5.3	25
201	Multifunctional metal organic framework and carbon nanotube-modified filter for combined ultrafine dust capture and SO2 dynamic adsorption. *Environmental Science: Nano*, **2018**, 5, 3023-3031	7.1	25
200	Boosting oxygen evolution reaction by activation of lattice-oxygen sites in layered Ruddlesden-Popper oxide. *EcoMat*, **2020**, 2, e12021	9.4	24
199	Low-energy desalination. *Nature Nanotechnology*, **2018**, 13, 273-274	28.7	24
198	Construction of porous N-doped graphene layer for efficient oxygen reduction reaction. *Chemical Engineering Science*, **2019**, 194, 36-44	4.4	24
197	Functionalized Boron Nitride Nanosheets: A Thermally Rearranged Polymer Nanocomposite Membrane for Hydrogen Separation. *Angewandte Chemie - International Edition*, **2018**, 57, 16056-16061	16.4	24
196	Functionalized Boron Nitride Nanosheets: A Thermally Rearranged Polymer Nanocomposite Membrane for Hydrogen Separation. *Angewandte Chemie*, **2018**, 130, 16288-16293	3.6	24

195	One-dimensional CoS-MoS nano-flakes decorated MoO sub-micro-wires for synergistically enhanced hydrogen evolution. *Nanoscale*, **2019**, 11, 3500-3505	7.7	23
194	Preparation and characterization of thin-film composite membrane with nanowire-modified support for forward osmosis process. *Membranes*, **2015**, 5, 136-49	3.8	23
193	Vertically-heterostructured TiO2-Ag-rGO ternary nanocomposite constructed with {001} facetted TiO2 nanosheets for enhanced Pt-free hydrogen production. *International Journal of Hydrogen Energy*, **2018**, 43, 1508-1515	6.7	23
192	Impact of trace graphene oxide in coagulation bath on morphology and performance of polysulfone ultrafiltration membrane. *Separation and Purification Technology*, **2015**, 147, 364-371	8.3	23
191	Synthesis of large-pore phenyl-bridged mesoporous organosilica with thick walls by evaporation-induced self-assembly for efficient benzene adsorption. *Journal of Colloid and Interface Science*, **2010**, 346, 429-35	9.3	23
190	Preparation of Crystalline Mesoporous Titania Using Furfuryl Alcohol as Polymerizable Solvent. *Industrial & Engineering Chemistry Research*, **2007**, 46, 6264-6268	3.9	23
189	Incorporating organic polymer into silica walls: A novel strategy for synthesis of templated mesoporous silica with tunable pore structure. *Microporous and Mesoporous Materials*, **2005**, 82, 183-189	5.3	23
188	High-surface-area zeolitic silica with mesoporosity. *Journal of Materials Chemistry*, **2001**, 11, 2307-2310		23
187	Sol□Gel Synthesis of Metal□Phenolic Coordination Spheres and Their Derived Carbon Composites. *Angewandte Chemie*, **2018**, 130, 9986-9991	3.6	22
186	A fast in situ seeding route to the growth of a zeolitic imidazolate framework-8/AAO composite membrane at room temperature. *RSC Advances*, **2014**, 4, 7634	3.7	22
185	Weak-base anion exchange membranes by amination of chlorinated polypropylene with polyethyleneimine at low temperatures. *Journal of Membrane Science*, **2008**, 318, 441-444	9.6	22
184	Zeolite crystallization in crosslinked chitosan hydrogels: Crystal size control and chitosan removal. *Microporous and Mesoporous Materials*, **2008**, 116, 416-423	5.3	22
183	Bacteriorhodopsin-Inspired Light-Driven Artificial Molecule Motors for Transmembrane Mass Transportation. *Angewandte Chemie - International Edition*, **2018**, 57, 16708-16712	16.4	22
182	Phase inversion spinning of ultrafine hollow fiber membranes through a single orifice spinneret. *Journal of Membrane Science*, **2012**, 421-422, 8-14	9.6	21
181	Synthesis of mesoporous LaPO4nanostructures with controllable morphologies. *New Journal of Chemistry*, **2009**, 33, 1657	3.6	21
180	Organic-functionalized sodalite nanocrystals and their dispersion in solvents. *Microporous and Mesoporous Materials*, **2007**, 106, 262-267	5.3	21
179	Study of cobalt molybdenum oxide supported on mesoporous silica for liquid phase cyclohexane oxidation. *Catalysis Today*, **2018**, 310, 116-129	5.3	20
178	Sulfonated Sub-1-nm Metal-Organic Framework Channels with Ultrahigh Proton Selectivity. *Journal of the American Chemical Society*, **2020**, 142, 9827-9833	16.4	19

177	Selective Permeation of Water through Angstrom-Channel Graphene Membranes for Bioethanol Concentration. *Advanced Materials*, **2020**, 32, e2002320	24	19
176	The Role of Nanowrinkles in Mass Transport across Graphene-Based Membranes. *Advanced Functional Materials*, **2020**, 30, 2003159	15.6	19
175	Boosting the oxygen evolution catalytic performance of perovskites via optimizing calcination temperature. *Journal of Materials Chemistry A*, **2020**, 8, 6480-6486	13	19
174	A 3D fibrous cathode with high interconnectivity for solid oxide fuel cells. *Electrochemistry Communications*, **2011**, 13, 1038-1041	5.1	19
173	Ordered hierarchical porous platinum membranes with tailored mesostructures. *Angewandte Chemie - International Edition*, **2010**, 49, 10101-5	16.4	19
172	Three-Dimensional Hierarchical Porous Nanotubes Derived from Metal-Organic Frameworks for Highly Efficient Overall Water Splitting. *IScience*, **2020**, 23, 100761	6.1	19
171	Tailored Brownmillerite Oxide Catalyst with Multiple Electronic Functionalities Enables Ultrafast Water Oxidation. *Chemistry of Materials*, **2021**, 33, 5233-5241	9.6	19
170	Preparation of silicalite□olyamide composite membranes for desalination. *Asia-Pacific Journal of Chemical Engineering*, **2012**, 7, 434-441	1.3	18
169	Synthesis of biodegradable polymer-mesoporous silica composite microspheres for DNA prime-protein boost vaccination. *European Journal of Pharmaceutical Sciences*, **2010**, 39, 412-20	5.1	18
168	Facile and versatile preparation of silicalite-1 hollow structures using cotton threads as templates. *Materials Chemistry and Physics*, **2007**, 103, 508-514	4.4	18
167	Cobalt molybdenum oxide catalysts for selective oxidation of cyclohexane. *AICHE Journal*, **2016**, 62, 4384-4402	3.6	18
166	Asymmetrically porous anion exchange membranes with an ultrathin selective layer for rapid acid recovery. *Journal of Membrane Science*, **2016**, 510, 437-446	9.6	18
165	Bioinspired Self-Gating Nanofluidic Devices for Autonomous and Periodic Ion Transport and Cargo Release. *Advanced Functional Materials*, **2019**, 29, 1806416	15.6	18
164	Improvement of the Swelling Properties of Ionic Hydrogels by the Incorporation of Hydrophobic, Elastic Microfibers for Forward Osmosis Applications. *Industrial & Engineering Chemistry Research*, **2017**, 56, 505-512	3.9	17
163	Microfiber-polymer hydrogel monolith as forward osmosis draw agent. *Journal of Membrane Science*, **2016**, 510, 426-436	9.6	17
162	Facile synthesis of nanoporous TiC□SiC□ composites as a novel counter-electrode for dye sensitized solar cells. *Microporous and Mesoporous Materials*, **2014**, 190, 309-315	5.3	17
161	Synthesis of Mesoporous Carbon-Bonded TiC/SiC Composites by Direct Carbothermal Reduction of Sol□el Derived Monolithic Precursor. *Journal of the American Ceramic Society*, **2011**, 94, 4025-4031	3.8	17
160	Thermosetting polymer templated nanoporous sinter-active layer for low temperature solid oxide fuel cells. *Journal of Materials Chemistry*, **2010**, 20, 1122-1126		17

159	Cyclodextrin metal-organic framework-polymer composite membranes towards ultimate and stable enantioselectivity. *Journal of Membrane Science*, **2021**, 620, 118956	9.6	17
158	Efficient Ion Sieving in Covalent Organic Framework Membranes with Sub-2-Nanometer Channels. *Advanced Materials*, **2021**, 33, e2104404	24	17
157	Metal link: A strategy to combine graphene and titanium dioxide for enhanced hydrogen production. *International Journal of Hydrogen Energy*, **2016**, 41, 22034-22042	6.7	16
156	Hydrophilic nanowire modified polymer ultrafiltration membranes with high water flux. *ACS Applied Materials & Interfaces*, **2014**, 6, 19161-7	9.5	16
155	ZIF-11/Polybenzimidazole composite membrane with improved hydrogen separation performance. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	16
154	Inorganic particle enhanced polymer hollow fiber membranes with high mechanical properties. *Materials Chemistry and Physics*, **2015**, 167, 209-218	4.4	16
153	Influence of glycerol cosolvent on the synthesis of size controllable zeolite A. *Materials Letters*, **2011**, 65, 2304-2306	3.3	16
152	Process considerations related to the microencapsulation of plasmid DNA via ultrasonic atomization. *Biotechnology and Bioengineering*, **2008**, 101, 172-81	4.9	16
151	Recent development of perovskite oxide-based electrocatalysts and their applications in low to intermediate temperature electrochemical devices. *Materials Today*, **2021**,	21.8	16
150	Seedless Synthesis of Monodispersed Gold Nanorods with Remarkably High Yield: Synergistic Effect of Template Modification and Growth Kinetics Regulation. *Chemistry - A European Journal*, **2017**, 23, 3291-3299	4.8	15
149	Bilayer composites consisting of gold nanorods and titanium dioxide as highly sensitive and self-cleaning SERS substrates. *Mikrochimica Acta*, **2017**, 184, 2805-2813	5.8	15
148	Self-assembled highly crystalline TiO2 mesostructures for sunlight-driven, pH-responsive photodegradation of dyes. *Materials Research Bulletin*, **2014**, 55, 13-18	5.1	15
147	Electrochemical characteristics and performance of anode-supported SOFCs fabricated using carbon microspheres as a pore-former. *International Journal of Hydrogen Energy*, **2012**, 37, 19045-19054	6.7	15
146	Effect of seeding on formation of silicon carbide nanostructures from mesoporous silica-carbon nanocomposites. *Nanotechnology*, **2008**, 19, 175605	3.4	15
145	Highly Dispersible Molecular Sieve Carbon Nanoparticles. *Chemistry of Materials*, **2004**, 16, 4205-4207	9.6	15
144	Ultrafast water evaporation through graphene membranes with subnanometer pores for desalination. *Journal of Membrane Science*, **2021**, 621, 118934	9.6	15
143	A Magnetic Gated Nanofluidic Based on the Integration of a Superhydrophilic Nanochannels and a Reconfigurable Ferrofluid. *Advanced Materials*, **2019**, 31, e1805953	24	15
142	Carbon Nanotube Networks as Nanoscaffolds for Fabricating Ultrathin Carbon Molecular Sieve Membranes. *ACS Applied Materials & Interfaces*, **2018**, 10, 20182-20188	9.5	15

141	Periodic oscillation of ion conduction of nanofluidic diodes using a chemical oscillator. *Nanoscale*, **2017**, 9, 7297-7304	7.7	14
140	Homochiral MOF–Polymer Mixed Matrix Membranes for Efficient Separation of Chiral Molecules. *Angewandte Chemie*, **2019**, 131, 17084-17091	3.6	14
139	Evaluation of quaternary phosphonium-based polymer membranes for desalination application. *Desalination*, **2012**, 292, 119-123	10.3	14
138	Solid oxide fuel cells with both high voltage and power output by utilizing beneficial interfacial reaction. *Physical Chemistry Chemical Physics*, **2012**, 14, 12173-81	3.6	14
137	Integration of plasmonic effect into MIL-125-NH: An ultra-efficient photocatalyst for simultaneous removal of ternary system pollutants. *Chemosphere*, **2020**, 242, 125197	8.4	14
136	ZIF-derived nitrogen-doped carbon/3D graphene frameworks for all-solid-state supercapacitors. *RSC Advances*, **2016**, 6, 76575-76581	3.7	14
135	Smart ZIF-L mesh films with switchable superwettability synthesized via a rapid energy-saving process. *Separation and Purification Technology*, **2020**, 240, 116647	8.3	13
134	Synthesis of Nitrogen-Doped Porous Carbon Nanocubes as a Catalyst Support for Methanol Oxidation. *ChemCatChem*, **2016**, 8, 1901-1904	5.2	13
133	Fibrous NiO/CeO2 nanocatalysts for the partial oxidation of methane at microsecond contact times. *RSC Advances*, **2013**, 3, 1341-1345	3.7	13
132	Hydrothermal synthesis of novel AlPO4-5 brooms and nano-fibers and their templated carbon structures. *CrystEngComm*, **2009**, 11, 739	3.3	13
131	Mesoporous silica spheres from colloids. *Journal of Colloid and Interface Science*, **2007**, 308, 374-80	9.3	13
130	Efficient Water Splitting Actualized through an Electrochemistry-Induced Hetero-Structured Antiperovskite/(Oxy)Hydroxide Hybrid. *Small*, **2020**, 16, e2006800	11	13
129	Structurally confined ultrafine NiO nanoparticles on graphene as a highly efficient and durable electrode material for supercapacitors. *RSC Advances*, **2016**, 6, 51356-51366	3.7	13
128	Synthesis of 2D nanoporous zeolitic imidazolate framework nanosheets for diverse applications. *Coordination Chemistry Reviews*, **2021**, 431, 213677	23.2	13
127	Ultraselective Monovalent Metal Ion Conduction in a Three-Dimensional Sub-1 nm Nanofluidic Device Constructed by Metal-Organic Frameworks. *ACS Nano*, **2021**, 15, 1240-1249	16.7	13
126	Highly permeable and selective mixed-matrix membranes for hydrogen separation containing PAF-1. *Journal of Materials Chemistry A*, **2020**, 8, 14713-14720	13	12
125	One-pot fabrication of CdxZn1-xS/ZnO nanohybrid using mixed sulfur sources for photocatalysis. *Materials Research Bulletin*, **2020**, 125, 110776	5.1	12
124	Effect of fabrication method on properties and performance of bimetallic Ni0.75Fe0.25 anode catalyst for solid oxide fuel cells. *International Journal of Hydrogen Energy*, **2012**, 37, 9287-9297	6.7	12

123	Hydrothermal synthesis of AlPO4-5: Effect of precursor gel preparation on the morphology of crystals. *Progress in Natural Science: Materials International*, **2012**, 22, 684-692	3.6	12
122	Mesoporous carbon confined conversion of silica nanoparticles into zeolite nanocrystals. *Microporous and Mesoporous Materials*, **2009**, 117, 490-496	5.3	12
121	Rational designs of interfacial-heating solar-thermal desalination devices: recent progress and remaining challenges. *Journal of Materials Chemistry A*, **2021**, 9, 6612-6633	13	12
120	A molecular-level strategy to boost the mass transport of perovskite electrocatalyst for enhanced oxygen evolution. *Applied Physics Reviews*, **2021**, 8, 011407	17.3	12
119	Hydrogen spillover in complex oxide multifunctional sites improves acidic hydrogen evolution electrocatalysis.. *Nature Communications*, **2022**, 13, 1189	17.4	12
118	Hybridizing TiO2 with Nitrogen-Doped Carbon: A New Route to A Highly Visible Light-Active Photocatalyst. *ChemistrySelect*, **2017**, 2, 1565-1572	1.8	11
117	Fast-responsive monolithic hydrogels as draw agent for forward osmosis membrane process. *Separation Science and Technology*, **2017**, 52, 2583-2590	2.5	11
116	Polysulfone and Its Quaternary Phosphonium Derivative Composite Membranes with High Water Flux. *Industrial & Engineering Chemistry Research*, **2015**, 54, 3333-3340	3.9	11
115	Effect of Anion Species on Ion Current Rectification Properties of Positively Charged Nanochannels. *ACS Applied Materials & Interfaces*, **2020**, 12, 28915-28922	9.5	11
114	Meso/micro-porosity and phase separation in TiO2/SiO2/C nanocomposites. *Microporous and Mesoporous Materials*, **2012**, 150, 25-31	5.3	11
113	Effects of polymerization conditions on the properties of poly(furfuryl alcohol) composite membranes. *Journal of Applied Polymer Science*, **2012**, 124, 3383-3391	2.9	11
112	Sawtooth-shaped nickel-based submicrowires and their electrocatalytic activity for methanol oxidation in alkaline media. *International Journal of Hydrogen Energy*, **2013**, 38, 11863-11869	6.7	11
111	Study on proton-conducting solid oxide fuel cells with a conventional nickel cermet anode operating on dimethyl ether. *Journal of Power Sources*, **2011**, 196, 9246-9253	8.9	11
110	Rapid Crystallization of Silicalite Nanocrystals in a Capillary Microreactor. *Chemical Engineering and Technology*, **2009**, 32, 732-737	2	11
109	Fabrication of porous polymer particles with high anion exchange capacity by amination reaction in aqueous medium. *Green Chemistry*, **2006**, 8, 386	10	11
108	Synthesis of ZIF/CNT nanonecklaces and their derived cobalt nanoparticles/N-doped carbon catalysts for oxygen reduction reaction. *Journal of Alloys and Compounds*, **2020**, 816, 152684	5.7	11
107	Boosting the photocatalytic activity of mesoporous SrTiO3 for nitrogen fixation through multiple defects and strain engineering. *Journal of Materials Chemistry A*, **2020**, 8, 22251-22256	13	11
106	Electricity Generation from Ammonia in Landfill Leachate by an Alkaline Membrane Fuel Cell Based on Precious-Metal-Free Electrodes. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 12817-12824	8.3	11

105	Long-term stable metal organic framework (MOF) based mixed matrix membranes for ultrafiltration. *Journal of Membrane Science*, **2021**, 635, 119339	9.6	11
104	Angstrom-scale ion channels towards single-ion selectivity.. *Chemical Society Reviews*, **2022**,	58.5	11
103	Tannic acid coating and in situ deposition of silver nanoparticles to improve the antifouling properties of an ultrafiltration membrane. *Journal of Applied Polymer Science*, **2019**, 136, 47314	2.9	10
102	Metal□Organic Frameworks (MOFs) and MOF-Derived Porous Carbon Materials for Sustainable Adsorptive Wastewater Treatment **2020**, 163-194		10
101	Coal Waste to Two-Dimensional Materials: Fabrication of □Fe2O3 Nanosheets and MgO Nanosheets from Brown Coal Fly Ash. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 15982-15987	8.3	10
100	Hierarchically Ordered Nanochannel Array Membrane Reactor with Three-Dimensional Electrocatalytic Interfaces for Electrohydrogenation of CO2 to Alcohol. *ACS Energy Letters*, **2018**, 3, 2649-2655	29.1	10
99	High-Efficiency Electrosynthesis of Hydrogen Peroxide from Oxygen Reduction Enabled by a Tungsten Single Atom Catalyst with Unique Terdentate N 1 O 2 Coordination. *Advanced Functional Materials*,2110224	15.6	10
98	Microporous polymer incorporated polyamide membrane for reverse osmosis desalination. *Journal of Membrane Science*, **2020**, 610, 118299	9.6	9
97	Synthesis of oxymethylene dimethyl ethers (OMEn) via methanol mediated COx hydrogenation over Ru/BEA catalysts. *Applied Catalysis B: Environmental*, **2020**, 269, 118765	21.8	9
96	Highly stable enzymatic membrane for fast treatment of antibiotic-polluted water. *Journal of Membrane Science*, **2016**, 518, 1-9	9.6	9
95	Conductivity and redox stability of new double perovskite oxide Sr1.6K0.4Fe1+x Mo1□ O6□(x = 0.2, 0.4, 0.6). *Journal of Materials Science*, **2016**, 51, 4115-4124	4.3	9
94	Modeling the Influence of Carbon Spheres on the Porosity of SOFC Anode Materials. *Journal of the American Ceramic Society*, **2012**, 95, 1261-1268	3.8	9
93	Polymer hydrogel assisted combustion synthesis of highly crystalline ceramic nanoparticles for SOFC electrolyte films. *Materials Chemistry and Physics*, **2009**, 118, 148-152	4.4	9
92	Nanoporous niobium phosphate electrolyte membrane for low temperature fuel cell. *Journal of Membrane Science*, **2010**, 356, 147-153	9.6	9
91	Mesoporous glass films supported on □Al2O3. *Journal of Membrane Science*, **2000**, 176, 75-85	9.6	9
90	Preparation and characterization of perovskite ceramic powders by gelcasting. *Journal of Materials Science*, **1999**, 34, 1163-1167	4.3	9
89	Interlaminar Crack Growth in Fiber Reinforced Composites During Fatigue. *Journal of Engineering Materials and Technology, Transactions of the ASME*, **1979**, 101, 34-41	1.8	9
88	Thermally regenerable metal-organic framework with high monovalent metal ion selectivity. *Chemical Engineering Journal*, **2021**, 405, 127037	14.7	9

87	Manipulating interfacial polymerization for polymeric nanofilms of composite separation membranes. *Progress in Polymer Science*, **2021**, 122, 101450	29.6	9
86	Ultrafast rectifying counter-directional transport of proton and metal ions in metal-organic framework-based nanochannels.. *Science Advances*, **2022**, 8, eabl5070	14.3	9
85	Investigating forward osmosis process for simultaneous preparation of brown coal slurry and wastewater reclamation. *Fuel Processing Technology*, **2015**, 131, 414-420	7.2	8
84	Cooperative Reformable Channel System with Unique Recognition of Gas Molecules in a Zeolitic Imidazolate Framework with Multilevel Flexible Ligands. *Journal of Physical Chemistry C*, **2015**, 119, 16762-16768	3.8	8
83	Nanofabrication of highly ordered, tunable metallic mesostructures via quasi-hard-templating of lyotropic liquid crystals. *Scientific Reports*, **2014**, 4, 7420	4.9	8
82	Synthesis of in-situ Al-defected iron oxide nanoflakes from coal ash: A detailed study on the structure, evolution mechanism and application to water remediation. *Journal of Hazardous Materials*, **2020**, 395, 122696	12.8	8
81	UV/ozone-assisted low temperature preparation of mesoporous TiO2 with tunable phase composition and enhanced solar light photocatalytic activity. *Journal of Materials Chemistry A*, **2014**, 2, 18791-18795	13	8
80	Hydrogen storage properties of highly cross-linked polymers derived from chlorinated polypropylene and polyethylenimine. *International Journal of Hydrogen Energy*, **2017**, 42, 23028-23034	6.7	8
79	Cubes of Zeolite A with an Amorphous Core. *Angewandte Chemie*, **2008**, 120, 8525-8527	3.6	8
78	Platinum tungsten oxide (Pt□WO3) nanoparticles: their preparation in glycol and electrocatalytic properties. *Journal of Experimental Nanoscience*, **2006**, 1, 113-123	1.9	8
77	Dimethoxymethane Production via Catalytic Hydrogenation of Carbon Monoxide in Methanol Media. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 2081-2092	8.3	8
76	Graphene oxide patchwork membranes. *Nature Nanotechnology*, **2021**, 16, 226-227	28.7	8
75	Emerging Homochiral Porous Materials for Enantiomer Separation. *Advanced Functional Materials*, **2021**, 31, 2101335	15.6	8
74	A microchannel reactor-integrated ceramic fuel cell with dual-coupling effect for efficient power and syngas co-generation from methane. *Applied Catalysis B: Environmental*, **2021**, 297, 120443	21.8	8
73	Photoresponsive Styrylpyrene-Modified MOFs for Gated Loading and Release of Cargo Molecules. *Chemistry of Materials*, **2020**, 32, 10621-10627	9.6	7
72	Greatly Enhanced Gas Selectivity in Mixed-Matrix Membranes through Size-Controlled Hyper-cross-linked Polymer Additives. *Industrial & Engineering Chemistry Research*, **2020**, 59, 13773-13782	3.9	7
71	Water Pollution Control for Sustainable Development. *Engineering*, **2019**, 5, 839-840	9.7	7
70	Electrocatalysts: Nitrogen-Doped Nanoporous Carbon/Graphene Nano-Sandwiches: Synthesis and Application for Efficient Oxygen Reduction (Adv. Funct. Mater. 36/2015). *Advanced Functional Materials*, **2015**, 25, 5876-5876	15.6	7

69	Alumina hollow fiber supported ZIF-7 membranes: synthesis and characterization. *Journal of Nanoscience and Nanotechnology*, **2013**, 13, 1431-4	1.3	7
68	Shape forming of ceramics with controllable microstructure by drying-free colloidal casting. *Journal of Materials Chemistry*, **2009**, 19, 7070		7
67	Gelcasting of La0.6Sr0.4Co0.8Fe0.2O3-□ from oxide and carbonate powders. *Ceramics International*, **1999**, 25, 177-181	5.1	7
66	Selective deoxygenation of biomass volatiles into light oxygenates catalysed by S-doped, nanosized zinc-rich scrap tyre char with in-situ formed multiple acidic sites. *Applied Catalysis B: Environmental*, **2021**, 282, 119603	21.8	7
65	Metal□Organic Framework-Based Ion-Selective Membranes. *Advanced Materials Technologies*, **2021**, 6, 2000790	6.8	7
64	Conductivity and redox stability of new perovskite oxides SrFe0.7TM0.2Ti0.1O3-□ (TM = Mn, Fe, Co, Ni, Cu). *Solid State Ionics*, **2017**, 301, 99-105	3.3	6
63	A thermally reduced graphene oxide membrane interlayered with an in situ synthesized nanospacer for water desalination. *Journal of Materials Chemistry A*, **2020**, 8, 25951-25958	13	6
62	Morphology and Catalytic Performance of Flake-Shaped NiO-Yttria-Stabilized Zirconia (YSZ) Particles with Nanocrystalline YSZ Grains. *Industrial & Engineering Chemistry Research*, **2012**, 51, 6387-6394	3.9	6
61	Synthesis of silicalite-poly(furfuryl alcohol) composite membranes for oxygen enrichment from air. *Nanoscale Research Letters*, **2011**, 6, 637	5	6
60	Preparation of microporous carbons by using □-cyclodextrin as molecular porogen. *Journal of Non-Crystalline Solids*, **2005**, 351, 936-940	3.9	6
59	In situ synthesis of AlPO4-14, CoAPO-44 and ZnAPO-34 films on alumina substrates. *Journal of Materials Science*, **2002**, 37, 1491-1496	4.3	6
58	Tailoring molecular interactions between microporous polymers in high performance mixed matrix membranes for gas separations. *Nanoscale*, **2020**, 12, 17405-17410	7.7	6
57	Effect of oxygen plasma treatment on the nanofiltration performance of reduced graphene oxide/cellulose nanofiber composite membranes. *Green Chemical Engineering*, **2021**, 2, 122-131	3	6
56	Lithium Extraction by Emerging Metal□Organic Framework-Based Membranes. *Advanced Functional Materials*, **2021**, 31, 2105991	15.6	6
55	A hierarchically structured PtCo nanoflakes□anotube as an electrocatalyst for methanol oxidation. *Inorganic Chemistry Frontiers*, **2017**, 4, 845-849	6.8	5
54	Monovalent Cation-Phenolic Crystals with pH-Driven Reversible Crystal Transformation. *Chemistry - A European Journal*, **2019**, 25, 12281-12287	4.8	5
53	TEMPO-Oxidized Cellulose Nanofibers: A Renewable Nanomaterial for Environmental and Energy Applications. *Advanced Materials Technologies*,2001180	6.8	5
52	Fouling and cleaning of polymer-entwined graphene oxide nanocomposite membrane for forward osmosis process. *Separation Science and Technology*, **2019**, 54, 1376-1386	2.5	5

51	Robust Anode-Supported Cells with Fast Oxygen Release Channels for Efficient and Stable CO Electrolysis at Ultrahigh Current Densities. *Small*, **2021**, 17, e2007211	11	5
50	Emerging porous framework material-based nanofluidic membranes toward ultimate ion separation. *Matter*, **2021**, 4, 2810-2830	12.7	5
49	Copy number variations of HLA-I and activation of NKp30 pathway determine the sensitivity of gastric cancer cells to the cytotoxicity of natural killer cells. *Oncogene*, **2016**, 35, 2584-91	9.2	4
48	Preparation of high-flux ultrafiltration membranes by blending strongly charged polymer. *Journal of Applied Polymer Science*, **2017**, 134,	2.9	4
47	Preparation of silicalite-1 microtube arrays supported on cordierite honeycomb by using palm fibers as templates. *Studies in Surface Science and Catalysis*, **2007**, 408-413	1.8	4
46	Porous 2D carbon nanosheets synthesized via organic groups triggered polymer particles exfoliation: An effective cathode catalyst for polymer electrolyte membrane fuel cells. *Electrochimica Acta*, **2020**, 332, 135397	6.7	4
45	Challenges in membrane-based liquid phase separations. *Green Chemical Engineering*, **2021**, 2, 3-13	3	4
44	Synthesis of (111) facet-engineered MgO nanosheet from coal fly ash and its superior catalytic performance for high-temperature water gas shift reaction. *Applied Catalysis A: General*, **2021**, 618, 118132	5.1	4
43	Pd-ZIF-L-GO ternary nanolaminates for enhanced heterogeneous catalysis. *2D Materials*, **2020**, 7, 015001	5.9	4
42	Bacteriorhodopsin-Inspired Light-Driven Artificial Molecule Motors for Transmembrane Mass Transportation. *Angewandte Chemie*, **2018**, 130, 16950-16954	3.6	4
41	Realizing High and Stable Electrocatalytic Oxygen Evolution for Iron-Based Perovskites by Co-Doping-Induced Structural and Electronic Modulation. *Advanced Functional Materials*,2111091	15.6	4
40	A Comparative Study of Constitutive and Neural Network Models for Flow Behavior of Mg-5.9Zn-1.6Zr-1.6Nd-0.9Y Alloy and Processing Maps. *Journal of Materials Engineering and Performance*, **2017**, 26, 2368-2376	1.6	3
39	Morphology control of mesoporous silica-carbon nanocomposites via phase separation of poly(furfuryl alcohol) and silica in the sol–gel synthesis. *Journal of Sol-Gel Science and Technology*, **2017**, 82, 664-674	2.3	3
38	Nitrogen-Rich, Well-Dispersed Nanoporous Carbon Materials for Super-Efficient Oxygen Reduction Reaction. *ChemElectroChem*, **2019**, 6, 1894-1900	4.3	3
37	Efficient Gating of Ion Transport in Three-Dimensional Metal–Organic Framework Sub-Nanochannels with Confined Light-Responsive Azobenzene Molecules. *Angewandte Chemie*, **2020**, 132, 13151-13156	3.6	3
36	Preparation of supported photocatalytic membrane from mesoporous titania spheres for humic acid removal from wastewater. *Asia-Pacific Journal of Chemical Engineering*, **2016**, 11, 611-619	1.3	3
35	Rheological behaviour of NiO/YSZ slurries for drying-free casting. *Powder Technology*, **2012**, 223, 116-123	3.2	3
34	Thin Film Nanocomposite Membranes for Water Desalination **2013**, 163-194		3

33	Highly fouling-resistant brominated poly(phenylene oxide) membranes using surface grafted diethylenetriamine. *RSC Advances*, **2017**, 7, 37324-37330	3.7	3
32	Modelling of Solar Evaporation Assisted by Floating Light-Absorbing Porous Materials. *Current Environmental Engineering*, **2014**, 1, 73-81	1.6	3
31	Bio-inspired artificial ion channels: from physical to chemical gating. *Materials Chemistry Frontiers*, **2021**, 5, 4059-4072	7.8	3
30	Sensors: Self-Template Synthesis of Mesoporous Metal Oxide Spheres with Metal-Mediated Inner Architectures and Superior Sensing Performance (Adv. Funct. Mater. 51/2018). *Advanced Functional Materials*, **2018**, 28, 1870364	15.6	3
29	Robust Hilly Polyamide Membrane for Fast Desalination. *ACS Applied Polymer Materials*, **2021**, 3, 1070-1077	4.3	3
28	Synthesis of Flake-Shaped NiO/YSZ Particles for High-Porosity Anode of Solid Oxide Fuel Cell. *Journal of the American Ceramic Society*, **2011**, 94, 3666-3670	3.8	2
27	Combustion synthesis of ceramic nanoparticles for solid oxide fuel cells. *Asia-Pacific Journal of Chemical Engineering*, **2010**, 5, 593-598	1.3	2
26	Silver Nanowires Eelectrodeposited from Reverse Hexagonal Liquid Crystals. *Materials Research Society Symposia Proceedings*, **2001**, 676, 3321		2
25	A Facile Chemical-Free and Universal Method for Transfer of Ultrathin Graphene-Based Films. *Advanced Materials Interfaces*, **2016**, 3, 1600540	4.6	2
24	Multi-cycle reversible control of gas permeability in thin film composite membranes via efficient UV-induced reactions. *Chemical Communications*, **2021**, 57, 3391-3394	5.8	2
23	Materials and Design of Photocatalytic Membranes **2018**, 71-96		2
22	Photo-switchable imprinted adsorbent towards a selective phenol recovery from wastewater. *Chemical Engineering Journal*, **2021**, 421, 129549	14.7	2
21	Polymer Hydrogels as Smart Draw Agents in Forward Osmosis Processes **2015**, 129-149		1
20	Water Desalination: Thermoresponsive Amphoteric Metal–Organic Frameworks for Efficient and Reversible Adsorption of Multiple Salts from Water (Adv. Mater. 34/2018). *Advanced Materials*, **2018**, 30, 1870256	24	1
19	Frontispiece: Homochiral MOF–Polymer Mixed Matrix Membranes for Efficient Separation of Chiral Molecules. *Angewandte Chemie - International Edition*, **2019**, 58,	16.4	1
18	Thin Films and Membranes with Hierarchical Porosity **2013**, 1		1
17	Graphitic N-Free/N-Doped Nanostructured Carbon Molecular Sieves via CVD Method and their Hydrogen Storage. *Advanced Materials Research*, **2009**, 66, 179-182	0.5	1
16	Humic Acids as a Complexible Fuel for Combustion Synthesis of Ceramic Nanoparticles. *Journal of the American Ceramic Society*, **2007**, 90, 070924065850004-???	3.8	1

15	Preparation of ZnAPO-34 films on alumina substrates. *Journal of Materials Science*, **2003**, 38, 1439-1445	4.3	1
14	Amino-functionalized porous PDVB with high adsorption and regeneration performance for fluoride removal from water. *Green Chemical Engineering*, **2021**, 2, 224-232	3	1
13	Seed-sol-assisted construction of a coffin-shaped multilamellar ZSM-5 single crystal using CTAB. *Chemical Communications*, **2021**, 57, 10624-10627	5.8	1
12	Synthetic azobenzene-containing metal-organic framework ion channels toward efficient light-gated ion transport at the subnanoscale. *Nanoscale*, **2021**, 13, 17396-17403	7.7	1
11	Pure Silica Zeolite Films as Low-k Dielectrics by Spin-On of Nanoparticle Suspensions **2001**, 13, 1463		1
10	Dimethoxymethane production via CO2 hydrogenation in methanol over novel Ru based hierarchical BEA. *Journal of Energy Chemistry*, **2022**, 66, 181-189	12	0
9	Photo-switchable membranes constructed from graphene oxide/star-PDMS nanocomposites for gas permeation control. *Journal of Materials Chemistry A*, **2021**, 9, 21167-21174	13	0
8	Waste to worth: A high-temperature water-gas shift magnetite catalyst with encapsulated core-shell structure from coal fly ash. *Fuel Processing Technology*, **2022**, 232, 107265	7.2	0
7	Nanoarchitectonics for Electrospun Membranes with Asymmetric Wettability.. *ACS Applied Materials & Interfaces*, **2021**, 13, 60763-60788	9.5	0
6	Photocatalytic-triggered nanopores across multilayer graphene for high-permeation membranes. *Chemical Engineering Journal*, **2022**, 443, 136253	14.7	0
5	Poly(furfuryl alcohol)-assisted pyrolysis synthesis of ceramic nanoparticles for solid oxide fuel cells. *Materials Research Bulletin*, **2012**, 47, 1661-1665	5.1	
4	CO2 Selective Separation Membranes **2013**, 259-309		
3	Fabrication of Silicon-Based Ceramic Synthesized from Mesoporous Carbon-Silica Nanocomposites. *Ceramic Transactions*, **2009**, 71-78	0.1	
2	Surface Patterns by Solvent Evaporation of Colloidal Zeolite Suspension. *Materials Research Society Symposia Proceedings*, **2001**, 676, 141		
1	Chapter 13:Thermo-responsive Membranes with Switchable Superhydrophilicity and Superhydrophobicity for Oil□Water Separation. *RSC Smart Materials*, **2019**, 362-388	0.6	