Zhongyi Jiang

List of Publications by Year in Descending Order

397 papers	18,564 citations	76 h-index	117 g-index
415 ext. papers	23,172 ext. citations	10.2 avg, IF	7.14 L-index

#	Paper	IF	Citations
397	Advanced organic molecular sieve membranes for carbon capture: Current status, challenges and prospects **2022**, 2, 100028		0
396	Synergism of orderly intrinsic and extrinsic proton-conducting sites in covalent organic framework membranes. *Chemical Engineering Research and Design*, **2022**, 179, 484-492	5.5	
395	Hybrid membranes with 2D vertical continuous channels from layered double hydroxides array for high-efficiency ethanol dehydration. *Journal of Membrane Science*, **2022**, 643, 120040	9.6	1
394	Perfluorooctanoyl chloride engineering toward high-flux antifouling polyamide nanofilms for desalination. *Journal of Membrane Science*, **2022**, 644, 120166	9.6	1
393	Charged nanochannels endow COF membrane with weakly concentration-dependent methanol permeability. *Journal of Membrane Science*, **2022**, 645, 120186	9.6	2
392	Ultrathin nanofiltration membrane assembled by polyethyleneimine-grafted graphene quantum dots. *Journal of Membrane Science*, **2022**, 642, 119944	9.6	5
391	Ultrathin polyamide nanofiltration membranes with tunable chargeability for multivalent cation removal. *Journal of Membrane Science*, **2022**, 642, 119971	9.6	3
390	Vapor-liquid interfacial polymerization of covalent organic framework membranes for efficient alcohol dehydration. *Journal of Membrane Science*, **2022**, 641, 119905	9.6	3
389	Assembling covalent organic framework membranes with superior ion exchange capacity.. *Nature Communications*, **2022**, 13, 1020	17.4	10
388	Tr□ger□s Base Polyimide Hybrid Membranes by Incorporating UiO-66-NH2 Nanoparticles for Gas Separation. *Industrial & Engineering Chemistry Research*, **2022**, 61, 3418-3427	3.9	0
387	Ultrathin Membranes for Separations: A New Era Driven by Advanced Nanotechnology.. *Advanced Materials*, **2022**, e2108457	24	1
386	Weakly pressure-dependent molecular sieving of propylene/propane mixtures through mixed matrix membrane with ZIF-8 direct-through channels. *Journal of Membrane Science*, **2022**, 648, 120366	9.6	0
385	Hydrogen crossover through microporous anion exchange membranes for fuel cells. *Journal of Power Sources*, **2022**, 527, 231143	8.9	0
384	Enhanced CO2-capture performance of polyimide-based mixed matrix membranes by incorporating ZnO@MOF nanocomposites. *Separation and Purification Technology*, **2022**, 289, 120714	8.3	1
383	A facile metal ion pre-anchored strategy for fabrication of defect-free MOF membranes on polymeric substrates. *Journal of Membrane Science*, **2022**, 650, 120419	9.6	1
382	Anionic covalent organic framework engineered high-performance polyamide membrane for divalent anions removal. *Journal of Membrane Science*, **2022**, 650, 120451	9.6	0
381	2D nanosheets seeding layer modulated covalent organic framework membranes for efficient desalination. *Desalination*, **2022**, 532, 115753	10.3	0

380	Molecule stratification in 2D heterostructured nanochannels towards enhanced selective permeation. *Chemical Engineering Journal*, **2022**, 440, 135828	14.7	0
379	Confined facilitated transport within covalent organic frameworks for propylene/propane membrane separation. *Chemical Engineering Journal*, **2022**, 439, 135657	14.7	1
378	MOF-COF "Alloy" Membrane for Efficient Propylene/Propane Separation.. *Advanced Materials*, **2022** , e2201423	24	5
377	Separation membranes with long-term stability and high flux prepared through intramembrane dopamine-based nanoparticle assembly. *Journal of Membrane Science*, **2022**, 654, 120563	9.6	0
376	Active site engineering in heterovalent metal organic frameworks for photocatalytic ammonia synthesis. *Chemical Engineering Journal*, **2022**, 443, 136559	14.7	
375	Modulating interfacial polymerization with phytate as aqueous-phase additive for highly-permselective nanofiltration membranes. *Journal of Membrane Science*, **2022**, 657, 120673	9.6	0
374	Bioinspired construction of g-C3N4 isotype heterojunction on carbonized poly(tannic acid) nanorod surface with multistep electron transfer path. *Journal of Photochemistry and Photobiology A: Chemistry*, **2022**, 431, 114045	4.7	0
373	Oil/water separation membranes with stable ultra-high flux based on the self-assembly of heterogeneous carbon nanotubes. *Journal of Membrane Science*, **2021**, 644, 120148	9.6	0
372	Hydrostable ZIF-8 layer on polyacrylonitrile membrane for efficient treatment of oilfield produced water. *Chemical Engineering Journal*, **2021**, 434, 133513	14.7	1
371	Sulfonated lignin intercalated graphene oxide membranes for efficient proton conduction. *Journal of Membrane Science*, **2021**, 644, 120126	9.6	3
370	Mix-charged polyamide membranes via molecular hybridization for selective ionic nanofiltration. *Journal of Membrane Science*, **2021**, 644, 120051	9.6	3
369	Photocatalytic MOF membranes with two-dimensional heterostructure for the enhanced removal of agricultural pollutants in water. *Chemical Engineering Journal*, **2021**, 133870	14.7	1
368	Oil-Water-Oil Triphase Synthesis of Ionic Covalent Organic Framework Nanosheets. *Angewandte Chemie - International Edition*, **2021**, 60, 27078	16.4	12
367	Highly permeable and antioxidative graphene oxide membranes for concentration of hydrogen peroxide aqueous solution. *Journal of Membrane Science*, **2021**, 643, 120036	9.6	3
366	Enzyme-photo-coupled catalytic systems. *Chemical Society Reviews*, **2021**,	58.5	7
365	Antifouling and Flux Enhancement of Reverse Osmosis Membrane by Grafting Poly (3-Sulfopropyl Methacrylate) Brushes. *Membranes*, **2021**, 11,	3.8	3
364	Ion Selective Covalent Organic Framework Enabling Enhanced Electrochemical Performance of Lithium-Sulfur Batteries. *Nano Letters*, **2021**, 21, 2997-3006	11.5	37
363	Nonconventional Cofactor Regeneration Systems **2021**, 275-296		

362	Electrostatic-modulated interfacial polymerization toward ultra-permselective nanofiltration membranes. *IScience*, **2021**, 24, 102369	6.1	23
361	Highly Proton Conductive Phosphoric Acid Porous Organic Polymers via Knitting Method. *Industrial & Engineering Chemistry Research*, **2021**, 60, 6337-6343	3.9	2
360	Tuning the pore size of graphene quantum dots composite nanofiltration membranes by P-aminobenzoic acid for enhanced dye/salt separation. *Separation and Purification Technology*, **2021**, 263, 118372	8.3	6
359	Tight Covalent Organic Framework Membranes for Efficient Anion Transport via Molecular Precursor Engineering. *Angewandte Chemie*, **2021**, 133, 17779-17787	3.6	5
358	Fouling-resistant robust membranes via electrostatic complexation for water purification. *Chemical Engineering Journal*, **2021**, 416, 129139	14.7	6
357	Engineering Covalent Organic Framework Membranes. *Accounts of Materials Research*, **2021**, 2, 630-643	7.5	17
356	Scalable Fabrication of Crystalline COF Membranes from Amorphous Polymeric Membranes. *Angewandte Chemie - International Edition*, **2021**, 60, 18051-18058	16.4	16
355	Conferring efficient alcohol dehydration to covalent organic framework membranes via post-synthetic linker exchange. *Journal of Membrane Science*, **2021**, 630, 119319	9.6	6
354	Improved proton conduction of sulfonated poly (ether ether ketone) membrane by sulfonated covalent organic framework nanosheets. *International Journal of Hydrogen Energy*, **2021**, 46, 26550-26559	6.7	2
353	Self-Assembled Facilitated Transport Membranes with Tunable Carrier Distribution for Ethylene/Ethane Separation. *Advanced Functional Materials*, **2021**, 31, 2104349	15.6	2
352	Multifunctional covalent organic framework (COF)-Based mixed matrix membranes for enhanced CO2 separation. *Journal of Membrane Science*, **2021**, 618, 118693	9.6	32
351	Exfoliation-free layered double hydroxides laminates intercalated with amino acids for enhanced CO2 separation of mixed matrix membrane. *Journal of Membrane Science*, **2021**, 618, 118691	9.6	11
350	Microporous framework membranes for precise molecule/ion separations. *Chemical Society Reviews*, **2021**, 50, 986-1029	58.5	58
349	Vertically oriented Fe3O4 nanoflakes within hybrid membranes for efficient water/ethanol separation. *Journal of Membrane Science*, **2021**, 620, 118916	9.6	4
348	In situ knitted microporous polymer membranes for efficient CO2 capture. *Journal of Materials Chemistry A*, **2021**, 9, 2126-2134	13	3
347	Analogous Mixed Matrix Membranes with Self-Assembled Interface Pathways. *Angewandte Chemie - International Edition*, **2021**, 60, 5864-5870	16.4	10
346	Analogous Mixed Matrix Membranes with Self-Assembled Interface Pathways. *Angewandte Chemie*, **2021**, 133, 5928-5934	3.6	1
345	Superwetting membranes: from controllable constructions to efficient separations. *Journal of Materials Chemistry A*, **2021**, 9, 1395-1417	13	16

344	Metal Hydride-Embedded Titania Coating to Coordinate Electron Transfer and Enzyme Protection in Photo-enzymatic Catalysis. *ACS Catalysis*, **2021**, 11, 476-483	13.1	11
343	Mussel-inspired capsules toward reaction-triggered cargo release. *Materials Chemistry Frontiers*, **2021**, 5, 792-798	7.8	4
342	Lamellar porous vermiculite membranes for boosting nanofluidic osmotic energy conversion. *Journal of Materials Chemistry A*, **2021**, 9, 14576-14581	13	11
341	Multilevel/hierarchical nanocomposite-imprinted regenerated cellulose membranes for high-efficiency separation: a selective recognition method with Au/PDA-loaded surface. *Environmental Science: Nano*, **2021**, 8, 1978-1991	7.1	
340	Three-dimensional covalent organic framework membrane for efficient proton conduction. *Journal of Materials Chemistry A*, **2021**, 9, 17720-17723	13	6
339	Oil/water separation membranes with a fluorine island structure for stable high flux. *Journal of Materials Chemistry A*, **2021**, 9, 6905-6912	13	6
338	Organic molecular sieve membranes for chemical separations. *Chemical Society Reviews*, **2021**, 50, 5468-5516	58.5	55
337	Optimizing the sulfonic groups of a polymer to coat the zinc anode for dendrite suppression. *Chemical Communications*, **2021**, 57, 5326-5329	5.8	7
336	One-pot Synthesis of Multifunctional KGM/PDA/PVDF Composite Membrane for Efficient Treatment of Oil□water Emulsion and Dye. *Nano*, **2021**, 16, 2150025	1.1	2
335	Heterostructured graphene oxide membranes with tunable water-capture coatings for highly selective water permeation. *Journal of Materials Chemistry A*, **2021**, 9, 7903-7912	13	8
334	Mixed-dimensional membranes: chemistry and structure-property relationships. *Chemical Society Reviews*, **2021**, 50, 11747-11765	58.5	7
333	Manipulating the cross-layer channels in g-C3N4 nanosheet membranes for enhanced molecular transport. *Journal of Materials Chemistry A*, **2021**, 9, 4193-4202	13	1
332	Intensifying Electron Utilization by Surface-Anchored Rh Complex for Enhanced Nicotinamide Cofactor Regeneration and Photoenzymatic CO Reduction. *Research*, **2021**, 2021, 8175709	7.8	6
331	Enhancing Proton Conductivity of Sulfonated Poly(ether ether ketone)-Based Membranes by Incorporating Phosphotungstic-Acid-Coupled Graphene Oxide. *Industrial & Engineering Chemistry Research*, **2021**, 60, 4460-4470	3.9	5
330	Granum-Inspired Photoenzyme-Coupled Catalytic System via Stacked Polymeric Carbon Nitride. *ACS Catalysis*, **2021**, 11, 9210-9220	13.1	0
329	Scalable Fabrication of Crystalline COF Membranes from Amorphous Polymeric Membranes. *Angewandte Chemie*, **2021**, 133, 18199-18206	3.6	0
328	Boosting Nitrogen Activation via Bimetallic Organic Frameworks for Photocatalytic Ammonia Synthesis. *ACS Catalysis*, **2021**, 11, 9986-9995	13.1	14
327	Tight Covalent Organic Framework Membranes for Efficient Anion Transport via Molecular Precursor Engineering. *Angewandte Chemie - International Edition*, **2021**, 60, 17638-17646	16.4	21

326	Enhanced water-selective performance of dual-layer hybrid membranes by incorporating carbon nanotubes. *Chemical Engineering Science: X*, **2021**, 11, 100102	1.1	1
325	On-Surface Bottom-Up Construction of COF Nanoshells towards Photocatalytic H Production. *Research*, **2021**, 2021, 9798564	7.8	2
324	Engineering dual-heterogeneous membrane surface with heterostructured modifier to integrate multi-defense antifouling mechanisms. *Chemical Engineering Science: X*, **2021**, 11, 100103	1.1	0
323	Nitrogenase-inspired bimetallic metal organic frameworks for visible-light-driven nitrogen fixation. *Applied Catalysis B: Environmental*, **2021**, 292, 120167	21.8	22
322	Bioinspired construction of carbonized poly(tannic acid)/g-C3N4 nanorod photocatalysts for organics degradation. *Applied Surface Science*, **2021**, 562, 150256	6.7	6
321	Graphene oxide membranes tuned by metal-phytic acid coordination complex for butanol dehydration. *Journal of Membrane Science*, **2021**, 638, 119736	9.6	8
320	Incorporating covalent organic framework nanosheets into polyamide membranes for efficient desalination. *Separation and Purification Technology*, **2021**, 274, 119046	8.3	7
319	Loosening ultrathin polyamide nanofilms through alkali hydrolysis for high-permselective nanofiltration. *Journal of Membrane Science*, **2021**, 637, 119623	9.6	7
318	Electrostatic enhanced surface segregation approach to self-cleaning and antifouling membranes for efficient molecular separation. *Journal of Membrane Science*, **2021**, 638, 119689	9.6	5
317	Engineering multi-pathway graphene oxide membranes toward ultrafast water purification. *Journal of Membrane Science*, **2021**, 638, 119706	9.6	6
316	Pyrimidine-modified g-C3N4 nanosheets for enhanced photocatalytic H2 evolution. *Materials Research Bulletin*, **2021**, 144, 111498	5.1	1
315	Solvent-processable 0D covalent organic framework quantum dot engineered composite membranes for biogas upgrading. *Journal of Membrane Science*, **2021**, 640, 119803	9.6	4
314	General framework for enzyme-photo-coupled catalytic system toward carbon dioxide conversion. *Current Opinion in Biotechnology*, **2021**, 73, 67-73	11.4	0
313	Thermal-facilitated interfacial polymerization toward high-performance polyester desalination membrane. *Journal of Materials Chemistry A*, **2021**, 9, 8470-8479	13	7
312	Graphene quantum dot engineered ultrathin loose polyamide nanofilms for high-performance nanofiltration. *Journal of Materials Chemistry A*, **2020**, 8, 23930-23938	13	38
311	Covalent Organic Framework Nanosheets as Reactive Fillers To Fabricate Free-Standing Polyamide Membranes for Efficient Desalination. *ACS Applied Materials & Interfaces*, **2020**, 12, 27777-27785	9.5	33
310	 Carbon Aerogels with a Hierarchically Structured Surface for Treating Organic Pollutants. *Industrial & Engineering Chemistry Research*, **2020**, 59, 17529-17536	3.9	13
309	Constructing high-efficiency facilitated transport pathways via embedding heterostructured Ag+@MOF/GO laminates into membranes for pervaporative desulfurization. *Separation and Purification Technology*, **2020**, 245, 116858	8.3	7

308	Bioinspired Construction of g-C3N4 Nanolayers on a Carbonized Polydopamine Nanosphere Surface with Excellent Photocatalytic Performance. *Industrial & Engineering Chemistry Research* , **2020**, 59, 12389-12398	3.9	7
307	Nitrogenase-inspired mixed-valence MIL-53(FeII/FeIII) for photocatalytic nitrogen fixation. *Chemical Engineering Journal*, **2020**, 400, 125929	14.7	30
306	An Interface-Bridged Organic□Inorganic Layer that Suppresses Dendrite Formation and Side Reactions for Ultra-Long-Life Aqueous Zinc Metal Anodes. *Angewandte Chemie*, **2020**, 132, 16737	3.6	5
305	Surface Modification of TFC-PA RO Membrane by Grafting Hydrophilic pH Switchable Poly(Acrylic Acid) Brushes. *Advances in Polymer Technology*, **2020**, 2020, 1-12	1.9	7
304	An Interface-Bridged Organic-Inorganic Layer that Suppresses Dendrite Formation and Side Reactions for Ultra-Long-Life Aqueous Zinc Metal Anodes. *Angewandte Chemie - International Edition*, **2020**, 59, 16594-16601	16.4	108
303	Synthesis of high-efficient g-C3N4/polydopamine/CdS nanophotocatalyst based on bioinspired adhesion and chelation. *Materials Research Bulletin*, **2020**, 131, 110970	5.1	11
302	In situ construction of hydrazone-linked COF-based core□shell hetero-frameworks for enhanced photocatalytic hydrogen evolution. *Journal of Materials Chemistry A*, **2020**, 8, 7724-7732	13	55
301	Solid-Vapor Interface Engineered Covalent Organic Framework Membranes for Molecular Separation. *Journal of the American Chemical Society*, **2020**, 142, 13450-13458	16.4	65
300	Ultrathin fluorinated self-cleaning membranes via coordination-driven metal-bridging assembly for water purification. *Journal of Materials Chemistry A*, **2020**, 8, 4505-4514	13	15
299	Amino-functionalized ZIF-7 embedded polymers of intrinsic microporosity membrane with enhanced selectivity for biogas upgrading. *Journal of Membrane Science*, **2020**, 602, 117970	9.6	25
298	Incorporating arginine-FeIII complex into polyamide membranes for enhanced water permeance and antifouling performance. *Journal of Membrane Science*, **2020**, 602, 117980	9.6	14
297	Superhydrophobic Metal□Organic Framework Nanocoating Induced by Metal-Phenolic Networks for Oily Water Treatment. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 1831-1839	8.3	17
296	Two-dimensional nanochannel membranes for molecular and ionic separations. *Chemical Society Reviews*, **2020**, 49, 1071-1089	58.5	103
295	Modification of covalent organic frameworks with dual functions ionic liquids for membrane-based biogas upgrading. *Journal of Membrane Science*, **2020**, 600, 117841	9.6	22
294	Synergy of Electron Transfer and Electron Utilization via Metal□Organic Frameworks as an Electron Buffer Tank for Nicotinamide Regeneration. *ACS Catalysis*, **2020**, 10, 2894-2905	13.1	24
293	A MOF Glass Membrane for Gas Separation. *Angewandte Chemie*, **2020**, 132, 4395-4399	3.6	22
292	Lithiation of covalent organic framework nanosheets facilitating lithium-ion transport in lithium-sulfur batteries. *Energy Storage Materials*, **2020**, 29, 207-215	19.4	39
291	Metal-Organic Nanogel with Sulfonated Three-Dimensional Continuous Channels as a Proton Conductor. *ACS Applied Materials & Interfaces*, **2020**, 12, 19788-19796	9.5	14

290	Unraveling and Manipulating of NADH Oxidation by Photogenerated Holes. *ACS Catalysis*, **2020**, 10, 4967-4972	13.1	17
289	Enhancement in proton conductivity by blending poly(polyoxometalate)-b-poly(hexanoic acid) block copolymers with sulfonated polysulfone. *International Journal of Hydrogen Energy*, **2020**, 45, 15495-15506	6.7	4
288	2D layered double hydroxide membranes with intrinsic breathing effect toward CO2 for efficient carbon capture. *Journal of Membrane Science*, **2020**, 598, 117663	9.6	21
287	Mixed-Matrix Membranes with Covalent Triazine Framework Fillers in Polymers of Intrinsic Microporosity for CO2 Separations. *Industrial & Engineering Chemistry Research*, **2020**, 59, 5296-5306	3.9	20
286	Accelerating CO2 capture of highly permeable polymer through incorporating highly selective hollow zeolite imidazolate framework. *AICHE Journal*, **2020**, 66, e16800	3.6	9
285	Enhanced desulfurization performance of hybrid membranes using embedded hierarchical porous SBA-15. *Frontiers of Chemical Science and Engineering*, **2020**, 14, 661-672	4.5	3
284	A MOF Glass Membrane for Gas Separation. *Angewandte Chemie - International Edition*, **2020**, 59, 4365-4369	16.4	125
283	Combined Intrinsic and Extrinsic Proton Conduction in Robust Covalent Organic Frameworks for Hydrogen Fuel Cell Applications. *Angewandte Chemie - International Edition*, **2020**, 59, 3678-3684	16.4	103
282	Amino-functionalized POSS nanocage intercalated graphene oxide membranes for efficient biogas upgrading. *Journal of Membrane Science*, **2020**, 596, 117733	9.6	20
281	Combined Intrinsic and Extrinsic Proton Conduction in Robust Covalent Organic Frameworks for Hydrogen Fuel Cell Applications. *Angewandte Chemie*, **2020**, 132, 3707-3713	3.6	19
280	Reducing active layer thickness of polyamide composite membranes using a covalent organic framework interlayer in interfacial polymerization. *Chinese Journal of Chemical Engineering*, **2020**, 28, 1039-1045	3.2	11
279	Polydopamine coated poly(m-phenylene isophthalamid) membrane as heat-tolerant separator for lithium-ion batteries. *Ionics*, **2020**, 26, 5471-5480	2.7	4
278	Polyelectrolyte membranes with tunable hollow CO2-philic clusters via sacrificial template for biogas upgrading. *Journal of Membrane Science*, **2020**, 612, 118445	9.6	2
277	High-flux nanofiltration membranes prepared with β-cyclodextrin and graphene quantum dots. *Journal of Membrane Science*, **2020**, 612, 118465	9.6	20
276	Metal-Organic Frameworks Corset with a Thermosetting Polymer for Improved Molecular-Sieving Property of Mixed-Matrix Membranes. *ACS Applied Materials & Interfaces*, **2020**, 12, 55308-55315	9.5	6
275	Weakly Humidity-Dependent Proton-Conducting COF Membranes. *Advanced Materials*, **2020**, 32, e2005565	27.4	74
274	Membrane-Based Olefin/Paraffin Separations. *Advanced Science*, **2020**, 7, 2001398	13.6	39
273	Biomimetic synthesis of 2D/2D mixed graphitic carbon nitride /carbonized polydopamine nanosheets with excellent photocatalytic performance. *Materials Chemistry and Physics*, **2020**, 256, 123621	4.1	8

272	Concerted Chemoenzymatic Synthesis of α-Keto Acid through Compartmentalizing and Channeling of Metal-Organic Frameworks. *ACS Catalysis*, **2020**, 10, 9664-9673	13.1	15
271	De Novo Design of Covalent Organic Framework Membranes toward Ultrafast Anion Transport. *Advanced Materials*, **2020**, 32, e2001284	24	59
270	Ultrathin heterostructured covalent organic framework membranes with interfacial molecular sieving capacity for fast water-selective permeation. *Journal of Materials Chemistry A*, **2020**, 8, 19328-19336	13	18
269	Metal-Organic Framework-Intercalated Graphene Oxide Membranes for Highly Efficient Oil/Water Separation. *Industrial & Engineering Chemistry Research*, **2020**, 59, 16762-16771	3.9	16
268	Water-selective hybrid membranes with improved interfacial compatibility from mussel-inspired dopamine-modified alginate and covalent organic frameworks. *Chinese Journal of Chemical Engineering*, **2020**, 28, 90-97	3.2	7
267	In situ construction of chemically heterogeneous hydrogel surfaces toward near-zero-flux-decline membranes for oil-water separation. *Journal of Membrane Science*, **2020**, 594, 117455	9.6	21
266	Incorporating dual-defense mechanism with functionalized graphene oxide and perfluorosulfonic acid for anti-fouling membranes. *Separation and Purification Technology*, **2020**, 234, 116082	8.3	7
265	Graphene oxide membranes with fixed interlayer distance via dual crosslinkers for efficient liquid molecular separations. *Journal of Membrane Science*, **2020**, 595, 117486	9.6	31
264	Polymer Electrolyte Membranes with Hybrid Cluster Network for Efficient CO2/CH4 Separation. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 6815-6825	8.3	9
263	Bioinspired Graphene Oxide Membranes with Dual Transport Mechanisms for Precise Molecular Separation. *Advanced Functional Materials*, **2019**, 29, 1905229	15.6	43
262	Elucidating Ultrafast Molecular Permeation through Well-Defined 2D Nanochannels of Lamellar Membranes. *Angewandte Chemie - International Edition*, **2019**, 58, 18524-18529	16.4	49
261	Control of Edge/in-Plane Interactions toward Robust, Highly Proton Conductive Graphene Oxide Membranes. *ACS Nano*, **2019**, 13, 10366-10375	16.7	28
260	Metal-coordinated sub-10 nm membranes for water purification. *Nature Communications*, **2019**, 10, 4160	17.4	46
259	Assembly of self-cleaning perfluoroalkyl coating on separation membrane surface. *Applied Surface Science*, **2019**, 496, 143674	6.7	5
258	Direct growth of covalent organic framework nanofiltration membranes on modified porous substrates for dyes separation. *Separation and Purification Technology*, **2019**, 215, 582-589	8.3	52
257	Ultrathin nanofiltration membrane with polydopamine-covalent organic framework interlayer for enhanced permeability and structural stability. *Journal of Membrane Science*, **2019**, 576, 131-141	9.6	136
256	Constructing interconnected ionic cluster network in polyelectrolyte membranes for enhanced CO2 permeation. *Chemical Engineering Science*, **2019**, 199, 275-284	4.4	22
255	Nanoporous Phyllosilicate Assemblies for Enzyme Immobilization.. *ACS Applied Bio Materials*, **2019**, 2, 777-786	4.1	13

254	Hierarchically Porous and Water-Tolerant Metal□Organic Frameworks for Enzyme Encapsulation. *Industrial & Engineering Chemistry Research*, **2019**, 58, 12835-12844	3.9	19
253	Covalent organic framework membranes through a mixed-dimensional assembly for molecular separations. *Nature Communications*, **2019**, 10, 2101	17.4	157
252	Mixed matrix membrane contactor containing core-shell hierarchical Cu@4A filler for efficient SO capture. *Journal of Hazardous Materials*, **2019**, 376, 160-169	12.8	10
251	Crackled nanocapsules: the "imperfect" structure for enzyme immobilization. *Chemical Communications*, **2019**, 55, 7155-7158	5.8	10
250	Membrane-based separation technologies: from polymeric materials to novel process: an outlook from China. *Reviews in Chemical Engineering*, **2019**, 36, 67-105	5	15
249	Constructing channel-mediated facilitated transport membranes by incorporating covalent organic framework nanosheets with tunable microenvironments. *Journal of Materials Chemistry A*, **2019**, 7, 9912-9923	13	15
248	Synthesis of g-C3N4 Nanosheet/TiO2 Heterojunctions Inspired by Bioadhesion and Biomineralization Mechanism. *Industrial & Engineering Chemistry Research*, **2019**, 58, 5516-5525	3.9	19
247	Mass transport mechanisms within pervaporation membranes. *Frontiers of Chemical Science and Engineering*, **2019**, 13, 458-474	4.5	17
246	Artificial Thylakoid for the Coordinated Photoenzymatic Reduction of Carbon Dioxide. *ACS Catalysis* , **2019**, 9, 3913-3925	13.1	45
245	Reduced graphene oxide aerogel membranes fabricated through hydrogen bond mediation for highly efficient oil/water separation. *Journal of Materials Chemistry A*, **2019**, 7, 11468-11477	13	37
244	Beetle-Inspired Assembly of Heterostructured Lamellar Membranes with Polymer Cluster□Patterned Surface for Enhanced Molecular Permeation. *Advanced Functional Materials*, **2019**, 29, 1900819	15.6	24
243	One-Pot Fabrication of g-C3N4/MWCNTs Nanocomposites with Superior Visible-Light Photocatalytic Performance. *Industrial & Engineering Chemistry Research*, **2019**, 58, 3679-3687	3.9	23
242	Hybrid membranes with Cu(II) loaded metal organic frameworks for enhanced desulfurization performance. *Separation and Purification Technology*, **2019**, 210, 258-267	8.3	21
241	Elevated Pervaporative Desulfurization Performance of Pebax-Ag+@MOFs Hybrid Membranes by Integrating Multiple Transport Mechanisms. *Industrial & Engineering Chemistry Research*, **2019**, 58, 16911-16921	3.9	7
240	Br□sted acid mediated covalent organic framework membranes for efficient molecular separation. *Journal of Materials Chemistry A*, **2019**, 7, 20317-20324	13	31
239	Boron Nitride Membranes with a Distinct Nanoconfinement Effect for Efficient Ethylene/Ethane Separation. *Angewandte Chemie*, **2019**, 131, 14107-14113	3.6	14
238	Enhanced Proton Conductivity of Sulfonated Polysulfone Membranes under Low Humidity via the Incorporation of Multifunctional Graphene Oxide. *ACS Applied Nano Materials*, **2019**, 2, 4734-4743	5.6	20
237	Mussel-Inspired pH-Switched Assembly of Capsules with an Ultrathin and Robust Nanoshell. *ACS Applied Materials & Interfaces*, **2019**, 11, 28228-28235	9.5	11

236	Ultrapermeable graphene oxide membranes with tunable interlayer distances via vein-like supramolecular dendrimers. *Journal of Materials Chemistry A*, **2019**, 7, 18642-18652	13	29
235	Mixed Nanosheet Membranes Assembled from Chemically Grafted Graphene Oxide and Covalent Organic Frameworks for Ultra-high Water Flux. *ACS Applied Materials & Interfaces*, **2019**, 11, 28978-28986	9.5	41
234	Boron Nitride Membranes with a Distinct Nanoconfinement Effect for Efficient Ethylene/Ethane Separation. *Angewandte Chemie - International Edition*, **2019**, 58, 13969-13975	16.4	34
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