Yong Wang

List of Publications by Year in Descending Order

254 papers	7,717 citations	50 h-index	72 g-index
267 ext. papers	9,136 ext. citations	7.5 avg, IF	6.64 L-index

#	Paper	IF	Citations
254	Covalent Organic Framework-Mediated Thin-Film Composite Polyamide Membranes toward Precise Ion Sieving.. *ACS Applied Materials & Interfaces*, **2022**,	9.5	5
253	Morphology Engineering for Covalent Organic Frameworks (COFs) by Surfactant Mediation and Acid Adjustment. *Chinese Journal of Polymer Science (English Edition)*, **2022**, 40, 338	3.5	0
252	Nanocomposite block copolymer membranes with enhanced permeance and robustness by carbon nanotube doping. *Composites Communications*, **2022**, 29, 101025	6.7	2
251	Boron removal by water molecules inside covalent organic framework (COF) multilayers. *Desalination*, **2022**, 526, 115548	10.3	3
250	Electrosynthesis of Ionic Covalent Organic Frameworks for Charge-Selective Separation of Molecules.. *Small*, **2022**, e2107108	11	1
249	Designing sub-nanometer pores for efficient boron removal. *Desalination*, **2022**, 533, 115755	10.3	1
248	Solvent-Free Process to High-Flux Ultrafiltration Membranes: Spray Coating of Water-Dispersed Carbon Nanotubes. *ACS ES&T Water*, **2022**, 2, 895-903		0
247	Masking Covalent Organic Frameworks (COFs) with Loose Polyamide Networks for Precise Nanofiltration. *Separation and Purification Technology*, **2021**, 120233	8.3	1
246	Recent advances of loose nanofiltration membranes for dye/salt separation. *Separation and Purification Technology*, **2021**, 285, 120228	8.3	7
245	Absolute and Fast Removal of Viruses and Bacteria from Water by Spraying-Assembled Carbon-Nanotube Membranes. *Environmental Science & Technology*, **2021**, 55, 15206-15214	10.3	1
244	Structure and dynamics of water in TiO2 nano slits: The influence of interfacial interactions and pore sizes. *Chinese Journal of Chemical Engineering*, **2021**, 31, 67-74	3.2	
243	A facile process to prepare fouling-resistant ultrafiltration membranes: Spray coating of water-containing block copolymer solutions on macroporous substrates. *Separation and Purification Technology*, **2021**, 259, 118100	8.3	5
242	Visible-light degradation of azo dyes by imine-linked covalent organic frameworks. *Green Energy and Environment*, **2021**,	5.7	3
241	Nanomeshes with Sub-10 nm Pores by Glycerol-Triggered 2D Assembly in Liquid Phases for Fast and Selective Membranes. *Nano Letters*, **2021**, 21, 3302-3309	11.5	4
240	Secondary growth of bi-layered covalent organic framework nanofilms with offset channels for desalination. *Journal of Membrane Science*, **2021**, 624, 119122	9.6	13
239	Zwitterionization of Tertiary Amines in Nanoporous Block Copolymers: toward Fouling-Resistant Ultrafiltration Membranes. *Macromolecules*, **2021**, 54, 4236-4245	5.5	6
238	Atomic layer deposition of TiO2 on carbon-nanotubes membrane for capacitive deionization removal of chromium from water. *Chinese Journal of Chemical Engineering*, **2021**,	3.2	1

237	Coupling Covalent Organic Frameworks and Carbon Nanotube Membranes to Design Easily Reusable Photocatalysts for Dye Degradation. *Industrial & Engineering Chemistry Research*, **2021**, 60, 8687-8695	3.9	3
236	Spray coating of polysulfone/poly(ethylene glycol) block polymer on macroporous substrates followed by selective swelling for composite ultrafiltration membranes. *Chinese Journal of Chemical Engineering*, **2021**, 29, 85-91	3.2	7
235	Pressure-modulated synthesis of self-repairing covalent organic frameworks (COFs) for high-flux nanofiltration. *Journal of Membrane Science*, **2021**, 618, 118727	9.6	17
234	Stitching nanosheets of covalent organic frameworks to build aligned nanopores in nanofiltration membranes for precise ion separations. *Journal of Membrane Science*, **2021**, 618, 118754	9.6	20
233	Upgrading polytetrafluoroethylene hollow-fiber membranes by CFD-optimized atomic layer deposition. *Journal of Membrane Science*, **2021**, 617, 118610	9.6	2
232	Additive-free preparation of hemodialysis membranes from block copolymers of polysulfone and polyethylene glycol. *Journal of Membrane Science*, **2021**, 618, 118690	9.6	13
231	Effect of hydrophilicity on ion rejection of sub-nanometer pores. *Separation and Purification Technology*, **2021**, 257, 117937	8.3	8
230	A Mini Review on Antiwetting Studies in Membrane Distillation for Textile Wastewater Treatment. *Processes*, **2021**, 9, 243	2.9	8
229	Fast Evaporation Enabled Ultrathin Polymer Coatings on Nanoporous Substrates for Highly Permeable Membranes. *Innovation(China)*, **2021**, 2, 100088	17.8	1
228	Design of Block-Copolymer Nanoporous Membranes for Robust and Safer Lithium-Ion Battery Separators. *Advanced Science*, **2021**, 8, 2003096	13.6	15
227	Hollow-fiber membranes of block copolymers by melt spinning and selective swelling. *Journal of Membrane Science*, **2021**, 632, 119374	9.6	7
226	Mechanism of permeance enhancement in mixed-matrix reverse osmosis membranes incorporated with graphene and its oxides. *Separation and Purification Technology*, **2021**, 270, 118818	8.3	1
225	Chemically Laminating Graphene Oxide Nanosheets with Phenolic Nanomeshes for Robust Membranes with Fast Desalination. *Nano Letters*, **2021**, 21, 8236-8243	11.5	5
224	Flexible and Robust Three-Dimensional Covalent Organic Framework Membranes for Precise Separations under Extreme Conditions. *Nano Letters*, **2021**, 21, 8355-8362	11.5	9
223	CO2-responsive membranes prepared by selective swelling of block copolymers and their behaviors in protein ultrafiltration. *Journal of Membrane Science*, **2021**, 641, 119928	9.6	3
222	Large-pore covalent organic frameworks for ultra-fast tight ultrafiltration (TUF). *Journal of Membrane Science*, **2021**, 637, 119635	9.6	4
221	Block copolymer coated carbon nanotube membrane anodes for enhanced and multipurpose hybrid capacitive deionization. *Desalination*, **2021**, 520, 115368	10.3	5
220	Phenolic membranes with tunable sub-10-nm pores for nanofiltration and tight-ultrafiltration. *Journal of Membrane Science*, **2021**, 640, 119858	9.6	2

219	Porous block copolymer separation membranes for 21st century sanitation and hygiene. *Chemical Society Reviews*, **2021**, 50, 6333-6348	58.5	8
218	Influence of membrane hydrophilicity on water permeability: An experimental study bridging simulations. *Journal of Membrane Science*, **2020**, 604, 118087	9.6	21
217	Room-temperature swelling of block copolymers for nanoporous membranes with well-defined porosities. *Journal of Membrane Science*, **2020**, 608, 118186	9.6	4
216	Effect of hydrophilicity on water transport through sub-nanometer pores. *Journal of Membrane Science*, **2020**, 611, 118297	9.6	11
215	Secondary growth of covalent organic frameworks (COFs) on porous substrates for fast desalination. *Journal of Membrane Science*, **2020**, 604, 118090	9.6	35
214	The establishment of high-performance anti-fouling nanofiltration membranes via cooperation of annular supramolecular Cucurbit[6]uril and dendritic polyamidoamine. *Journal of Membrane Science* , **2020**, 600, 117863	9.6	28
213	Thickness-dependent ion rejection in nanopores. *Journal of Membrane Science*, **2020**, 601, 117899	9.6	12
212	Single-Layered Nanosheets of Covalent Triazine Frameworks (CTFs) by Mild Oxidation for Molecular-Sieving Membranes. *ACS Applied Materials & Interfaces*, **2020**, 12, 18944-18951	9.5	29
211	Molecular Simulations of Water Transport Resistance in Polyamide RO Membranes: Interfacial and Interior Contributions. *Engineering*, **2020**, 6, 577-584	9.7	7
210	Simultaneous zwitterionization and selective swelling-induced pore generation of block copolymers for antifouling ultrafiltration membranes. *Journal of Membrane Science*, **2020**, 599, 117833	9.6	13
209	Block copolymer ultrafiltration membranes by spray coating coupled with selective swelling. *Journal of Membrane Science*, **2020**, 598, 117656	9.6	12
208	Selective Swelling of Block Copolymers: An Upscalable Greener Process to Ultrafiltration Membranes?. *Macromolecules*, **2020**, 53, 5-17	5.5	21
207	N-Doping Carbon-Nanotube Membrane Electrodes Derived from Covalent Organic Frameworks for Efficient Capacitive Deionization. *Langmuir*, **2020**, 36, 12030-12037	4	8
206	Growth of Cationic Covalent Organic Frameworks (COFs) for Mixed Matrix Membranes with Enhanced Performances. *Langmuir*, **2020**, 36, 10970-10978	4	7
205	Pressure-Dependent Ion Rejection in Nanopores. *Journal of Physical Chemistry C*, **2020**, 124, 20498-20505	3.8	5
204	Gradient nanoporous phenolics as substrates for high-flux nanofiltration membranes by layer-by-layer assembly of polyelectrolytes. *Chinese Journal of Chemical Engineering*, **2020**, 28, 114-121	3.2	5
203	Selective swelling of polysulfone/poly(ethylene glycol) block copolymer towards fouling-resistant ultrafiltration membranes. *Chinese Journal of Chemical Engineering*, **2020**, 28, 98-103	3.2	8
202	Nanofluidic Behaviors of Water and Ions in Covalent Triazine Framework (CTF) Multilayers. *Small*, **2020**, 16, e1903879	11	14

201	Producing Nanoporosities in Block Copolymers within 30 s by Microwave-Boosted Selective Swelling. *Macromolecules*, **2020**, 53, 3619-3626	5.5	9
200	CO2-responsive graphene oxide nanofiltration membranes for switchable rejection to cations and anions. *Journal of Membrane Science*, **2019**, 592, 117374	9.6	15
199	Design of gradient nanopores in phenolics for ultrafast water permeation. *Chemical Science*, **2019**, 10, 2093-2100	9.4	13
198	Two-dimensional superstructures filled into polysulfone membranes for highly improved ultrafiltration: The case of cuprous iodide nanosheets. *Journal of Membrane Science*, **2019**, 576, 142-149	9.6	9
197	Growing covalent organic frameworks on porous substrates for molecule-sieving membranes with pores tunable from ultra- to nanofiltration. *Journal of Membrane Science*, **2019**, 576, 116-122	9.6	51
196	Reduced air sensitivity and improved electrochemical stability of P2Na2/3Mn1/2Fe1/4Co1/4O2 through atomic layer deposition-assisted Al2O3 coating. *Composites Part B: Engineering*, **2019**, 173, 106913	10	16
195	Metal ions sewing isoporous membranes with polystyrene-block-poly (acrylic acid) block copolymer. *Journal of Membrane Science*, **2019**, 587, 117086	9.6	17
194	Unidirectional diffusion synthesis of covalent organic frameworks (COFs) on polymeric substrates for dye separation. *Journal of Membrane Science*, **2019**, 586, 274-280	9.6	66
193	Single-step coating of polyethylenimine on gradient nanoporous phenolics for tight membranes with ultrahigh permeance. *Journal of Membrane Science*, **2019**, 587, 117172	9.6	8
192	Fast Desalination by Multilayered Covalent Organic Framework (COF) Nanosheets. *ACS Applied Materials & Interfaces*, **2019**, 11, 16847-16854	9.5	73
191	Chitosan-Cross-Linked Graphene Oxide/Carboxymethyl Cellulose Aerogel Globules with High Structure Stability in Liquid and Extremely High Adsorption Ability. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 8775-8788	8.3	84
190	Nanoporous block copolymer membranes immobilized with gold nanoparticles for continuous flow catalysis. *Polymer Chemistry*, **2019**, 10, 1642-1649	4.9	21
189	Tailoring TiO2 membranes for nanofiltration and tight ultrafiltration by leveraging molecular layer deposition and crystallization. *Journal of Membrane Science*, **2019**, 578, 149-155	9.6	16
188	Gradient nanoporous phenolics filled in macroporous substrates for highly permeable ultrafiltration. *Journal of Membrane Science*, **2019**, 576, 123-130	9.6	8
187	Ultra-permeable polyamide membranes harvested by covalent organic framework nanofiber scaffolds: a two-in-one strategy. *Chemical Science*, **2019**, 10, 9077-9083	9.4	53
186	Carbonization of gradient phenolics filled in macroporous substrates for high-flux tight membranes: Toward ultrafiltration of polypeptides. *Journal of Membrane Science*, **2019**, 590, 117309	9.6	5
185	Enabling Covalent Organic Framework Nanofilms for Molecular Separation: Perforated Polymer-Assisted Transfer. *ACS Applied Materials & Interfaces*, **2019**, 11, 44783-44791	9.5	19
184	Ion Rejection in Covalent Organic Frameworks: Revealing the Overlooked Effect of In-Pore Transport. *ACS Applied Materials & Interfaces*, **2019**, 11, 45246-45255	9.5	17

183	Selective Swelling of Block Copolymers for Porous Nanostructures. *World Scientific Series in Nanoscience and Nanotechnology*, **2019**, 45-117	0.1	1
182	How Pore Hydrophilicity Influences Water Permeability?. *Research*, **2019**, 2019, 1-10	7.8	15
181	How Pore Hydrophilicity Influences Water Permeability?. *Research*, **2019**, 2019, 2581241	7.8	41
180	Table-salt enabled interface-confined synthesis of covalent organic framework (COF) nanosheets. *Chemical Science*, **2019**, 11, 989-996	9.4	30
179	Endowing piezoelectric and anti-fouling properties by directly poling β-phase PVDF membranes with green diluents. *AIP Advances*, **2019**, 9, 115219	1.5	6
178	Transport mechanism of water molecules passing through polyamide/COF mixed matrix membranes. *Physical Chemistry Chemical Physics*, **2019**, 21, 26591-26597	3.6	5
177	Atomic layer deposition of TiO2 on carbon-nanotube membranes for enhanced capacitive deionization. *Separation and Purification Technology*, **2019**, 213, 70-77	8.3	42
176	Atomic layer deposition of hybrid metal oxides on carbon nanotube membranes for photodegradation of dyes. *Composites Communications*, **2019**, 12, 39-46	6.7	17
175	Synthesis of poly(2-dimethylaminoethyl methacrylate)-block- poly(styrene-alt-N-phenylmaleimide) and its thermo-tolerant nanoporous films prepared by selective swelling. *Polymer*, **2019**, 164, 126-133	3.9	5
174	Enhanced antifouling and antimicrobial thin film nanocomposite membranes with incorporation of Palygorskite/titanium dioxide hybrid material. *Journal of Colloid and Interface Science*, **2019**, 537, 1-10	9.3	40
173	Ultrathin nanoporous membrane fabrication based on block copolymer micelles. *Journal of Membrane Science*, **2019**, 570-571, 427-435	9.6	10
172	Turn on fluorescent detection for Cd based on surfactant controlled squaraine aggregation. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2019**, 208, 236-242	4.4	7
171	Selective swelling of block copolymer ultrafiltration membranes for enhanced water permeability and fouling resistance. *Journal of Membrane Science*, **2018**, 558, 106-112	9.6	19
170	Atomic layer deposition fabricating of ceramic nanofiltration membranes for efficient separation of dyes from water. *AICHE Journal*, **2018**, 64, 2670-2678	3.6	22
169	New surface cross-linking method to fabricate positively charged nanofiltration membranes for dye removal. *Journal of Chemical Technology and Biotechnology*, **2018**, 93, 2281-2291	3.5	31
168	One-Step Synthesis of Carbon-Hybridized ZnO on Polymeric Foams by Atomic Layer Deposition for Efficient Absorption of Oils from Water. *Industrial & Engineering Chemistry Research*, **2018**, 57, 1269-1276	3.9	13
167	Atomic layer deposition of metal oxides on carbon nanotube fabrics for robust, hydrophilic ultrafiltration membranes. *Journal of Membrane Science*, **2018**, 550, 246-253	9.6	27
166	Mesoporous phenolics filled in macroporous membranes for tunable tight-ultrafiltration. *Chemical Engineering Science*, **2018**, 187, 98-106	4.4	10

165	Polymeric nanospheres with tunable sizes, water dispersibility, and thermostability from heating-enabled micellization of polysulfone-block-polyethylene glycol. *Journal of Polymer Science, Part B: Polymer Physics*, **2018**, 56, 769-777	2.6	3
164	Selective Swelling of Electrospun Block Copolymers: From Perforated Nanofibers to High Flux and Responsive Ultrafiltration Membranes. *Macromolecules*, **2018**, 51, 2283-2292	5.5	29
163	Electrospun nanofiber substrates that enhance polar solvent separation from organic compounds in thin-film composites. *Journal of Materials Chemistry A*, **2018**, 6, 15047-15056	13	90
162	Perpendicular Alignment and Selective Swelling-Induced Generation of Homopores of Polystyrene-b-poly(2-vinylpyridine)-b-poly(ethylene oxide) Triblock Terpolymer. *Macromolecules*, **2018**, 51, 6248-6256	5.5	8
161	Water Flow through Interlayer Channels of Two-Dimensional Materials with Various Hydrophilicities. *Journal of Physical Chemistry C*, **2018**, 122, 15772-15779	3.8	19
160	Resistance of water transport in carbon nanotube membranes. *Nanoscale*, **2018**, 10, 13242-13249	7.7	25
159	Progress and perspectives in PTFE membrane: Preparation, modification, and applications. *Journal of Membrane Science*, **2018**, 549, 332-349	9.6	135
158	Atomic layer deposition of Al 2 O 3 on porous polypropylene hollow fibers for enhanced membrane performances. *Chinese Journal of Chemical Engineering*, **2018**, 26, 695-700	3.2	10
157	Highly permeable membranes enabled by film formation of block copolymers on water surface. *Journal of Membrane Science*, **2018**, 568, 40-46	9.6	10
156	Layer-by-Layer Synthesis of Covalent Organic Frameworks on Porous Substrates for Fast Molecular Separations. *ACS Applied Nano Materials*, **2018**, 1, 6320-6326	5.6	37
155	Retarded evaporation-induced synthesis of lamellar block copolymer supramolecules for solvatochromic sensing. *Sensors and Actuators B: Chemical*, **2018**, 277, 172-178	8.5	4
154	Interfacial polymerization of covalent organic frameworks (COFs) on polymeric substrates for molecular separations. *Journal of Membrane Science*, **2018**, 566, 197-204	9.6	145
153	Structure design and applications of dual-layer polymeric membranes. *Journal of Membrane Science* , **2018**, 562, 85-111	9.6	68
152	Water Flow inside Polamide Reverse Osmosis Membranes: A Non-Equilibrium Molecular Dynamics Study. *Journal of Physical Chemistry B*, **2017**, 121, 1715-1722	3.4	26
151	Ceramic tubular nanofiltration membranes with tunable performances by atomic layer deposition and calcination. *Journal of Membrane Science*, **2017**, 528, 95-102	9.6	35
150	A mitochondria-targeting supramolecular photosensitizer based on pillar[5]arene for photodynamic therapy. *Chemical Communications*, **2017**, 53, 3126-3129	5.8	57
149	ALD-seeded hydrothermally-grown Ag/ZnO nanorod PTFE membrane as efficient indoor air filter. *Journal of Membrane Science*, **2017**, 531, 86-93	9.6	39
148	Multifunctional hybrid porous filters with hierarchical structures for simultaneous removal of indoor VOCs, dusts and microorganisms. *Nanoscale*, **2017**, 9, 5433-5444	7.7	26

147	A promising carbon fiber-based photocatalyst with hierarchical structure for dye degradation. *RSC Advances*, **2017**, 7, 22234-22242	3.7	23
146	Atomic-layer-deposition-enabled thin-film composite membranes of polyimide supported on nanoporous anodized alumina. *Journal of Membrane Science*, **2017**, 535, 56-62	9.6	29
145	Advanced SERS Sensor Based on Capillarity-Assisted Preconcentration through Gold Nanoparticle-Decorated Porous Nanorods. *Small*, **2017**, 13, 1603947	11	25
144	Fluorescent probe encapsulated hydrogel microsphere for selective and reversible detection of Hg 2+. *Journal of Luminescence*, **2017**, 183, 212-216	3.8	11
143	Highly permeable nanoporous block copolymer membranes by machine-casting on nonwoven supports: An upscalable route. *Journal of Membrane Science*, **2017**, 533, 201-209	9.6	15
142	Tight ultrafiltration membranes of mesoporous phenolic resin filled in macroporous substrates. *Journal of Membrane Science*, **2017**, 533, 96-102	9.6	13
141	Depositing lignin on membrane surfaces for simultaneously upgraded reverse osmosis performances: An upscalable route. *AICHE Journal*, **2017**, 63, 2221-2231	3.6	13
140	Direct silanization of polyurethane foams for efficient selective absorption of oil from water. *AICHE Journal*, **2017**, 63, 2232-2240	3.6	18
139	Advanced ultrafiltration membranes by leveraging microphase separation in macrophase separation of amphiphilic polysulfone block copolymers. *Journal of Membrane Science*, **2017**, 525, 342-348	9.6	45
138	Semicrystalline Block Copolymers in Rigid Confining Nanopores. *Macromolecules*, **2017**, 50, 8637-8646	5.5	7
137	Highly permeable and antifouling reverse osmosis membranes with acidified graphitic carbon nitride nanosheets as nanofillers. *Journal of Materials Chemistry A*, **2017**, 5, 19875-19883	13	70
136	Nanofriction of Graphene/Ionic Liquid-Infused Block Copolymer Homoporous Membranes. *Langmuir*, **2017**, 33, 11590-11602	4	6
135	Selective swelling blends of block copolymers for nanoporous membranes with enhanced permeability and robustness. *Journal of Polymer Science, Part B: Polymer Physics*, **2017**, 55, 1617-1625	2.6	6
134	Nanoporous polysulfones with in situ PEGylated surfaces by a simple swelling strategy using paired solvents. *Chemical Communications*, **2017**, 53, 9105-9108	5.8	21
133	Fabrication of interconnected mesoporous carbon sheets for use in high-performance supercapacitors. *New Carbon Materials*, **2017**, 32, 213-220	4.4	18
132	Antifouling ultrafiltration membranes by selective swelling of polystyrene/poly(ethylene oxide) block copolymers. *Journal of Membrane Science*, **2017**, 542, 226-232	9.6	29
131	Substrate matters: The influences of substrate layers on the performances of thin-film composite reverse osmosis membranes. *Chinese Journal of Chemical Engineering*, **2017**, 25, 1676-1684	3.2	29
130	Fabrication of ceramic membrane supported palladium catalyst and its catalytic performance in liquid-phase hydrogenation reaction. *Chemical Engineering Journal*, **2017**, 313, 1556-1566	14.7	26

129	Facile synthesis of bimodal nanoporous carbons by templating selective Swelling-induced mesoporous block copolymers. *Chemical Engineering Journal*, **2017**, 313, 1295-1301	14.7	13
128	Enhanced response speed and selectivity of fluorescein-based HS probe via the cleavage of nitrobenzene sulfonyl ester assisted by ortho aldehyde groups. *Biosensors and Bioelectronics*, **2017**, 87, 96-100	11.8	58
127	Benzothiazole-based fluorescent sensor for hypochlorite detection and its application for biological imaging. *Sensors and Actuators B: Chemical*, **2017**, 243, 22-28	8.5	96
126	Nanoporous Films with Superior Resistance to Protein Adsorption by Selective Swelling of Polystyrene-block-poly(ethylene oxide). *Industrial & Engineering Chemistry Research*, **2016**, 55, 8133-8140	3.9	11
125	In Situ Cavitation of Phenolic Supramolecules with PEO–PPO–PEO Block Copolymers by Friedel–Crafts Alkylation toward Ordered Nanoporous Polymers. *Industrial & Engineering Chemistry Research*, **2016**, 55, 6398-6404	3.9	13
124	Heat transfer of nanofluidics in hydrophilic pores: Insights from molecular dynamics simulations. *Chinese Journal of Chemical Engineering*, **2016**, 24, 1117-1121	3.2	4
123	Nondestructive Creation of Ordered Nanopores by Selective Swelling of Block Copolymers: Toward Homoporous Membranes. *Accounts of Chemical Research*, **2016**, 49, 1401-8	24.3	74
122	Upgrading polysulfone ultrafiltration membranes by blending with amphiphilic block copolymers: Beyond surface segregation. *Journal of Membrane Science*, **2016**, 505, 53-60	9.6	66
121	Orthogonal Approach to Construct Cell-Like Vesicles via Pillar[5]arene-Based Amphiphilic Supramolecular Polymers. *ACS Macro Letters*, **2016**, 5, 112-117	6.6	22
120	Immobilized palladium nanoparticles within polymers as active catalysts for Suzuki–Miyaura reaction. *RSC Advances*, **2016**, 6, 16899-16903	3.7	10
119	Enhanced performances of polypropylene membranes by molecular layer deposition of polyimide. *Chinese Journal of Chemical Engineering*, **2016**, 24, 843-849	3.2	7
118	Hydrophilic ePTFE Membranes with Highly Enhanced Water Permeability and Improved Efficiency for Multipollutant Control. *Industrial & Engineering Chemistry Research*, **2016**, 55, 2806-2812	3.9	11
117	An ESIPT-based fluorescent probe for highly selective detection of glutathione in aqueous solution and living cells. *Dyes and Pigments*, **2016**, 129, 156-162	4.6	39
116	Two-Dimensional Covalent Triazine Framework Membrane for Helium Separation and Hydrogen Purification. *ACS Applied Materials & Interfaces*, **2016**, 8, 8694-701	9.5	96
115	Highly Permeable and Robust Responsive Nanoporous Membranes by Selective Swelling of Triblock Terpolymers with a Rubbery Block. *Macromolecules*, **2016**, 49, 182-191	5.5	17
114	Homoporous Membranes with Tailored Pores by Soaking Block Copolymer/Homopolymer Blends in Selective Solvents: Dissolution versus Swelling. *Macromolecules*, **2016**, 49, 215-223	5.5	21
113	Preparation of Hyflon AD60/PVDF composite hollow fiber membranes for vacuum membrane distillation. *Separation and Purification Technology*, **2016**, 157, 1-8	8.3	54
112	Selective swelling induced pore generation of amphiphilic block copolymers: The role of swelling agents. *Journal of Polymer Science, Part B: Polymer Physics*, **2016**, 54, 926-933	2.6	13

111	Atomic Layer Deposition on Block Copolymer Membranes with Gyroidal Nanopores Toward Periodically Nanostructured Vapor Sensors: Nanotubes versus Nanorods. *Advanced Materials Interfaces*, **2016**, 3, 1600017	4.6	13
110	Dye adsorption on zinc oxide nanoparticulates atomic-layer-deposited on polytetrafluoroethylene membranes. *AICHE Journal*, **2016**, 62, 3982-3991	3.6	33
109	Amphiphobic Polytetrafluoroethylene Membranes for Efficient Organic Aerosol Removal. *ACS Applied Materials & Interfaces*, **2016**, 8, 8773-81	9.5	31
108	Highly efficient palladium catalysts supported on nitrogen contained polymers for Suzuki-Miyaura reaction. *Catalysis Communications*, **2016**, 82, 24-28	3.2	21
107	A dinuclear-copper(II) complex-based sensor for pyrophosphate and its applications to detecting pyrophosphatase activity and monitoring polymerase chain reaction. *Sensors and Actuators B: Chemical*, **2016**, 233, 591-598	8.5	22
106	Stretched homoporous composite membranes with elliptic nanopores for external-energy-free ultrafiltration. *Chemical Communications*, **2016**, 52, 6899-902	5.8	12
105	Efficient perovskite solar cells based on novel three-dimensional TiO 2 network architectures. *Science Bulletin*, **2016**, 61, 778-786	10.6	25
104	Recent advances in organic–inorganic well-defined hybrid polymers using controlled living radical polymerization techniques. *Polymer Chemistry*, **2016**, 7, 3950-3976	4.9	44
103	The Influence of Surface Topography and Surface Chemistry on the Anti-Adhesive Performance of Nanoporous Monoliths. *ACS Applied Materials & Interfaces*, **2016**, 8, 22593-604	9.5	9
102	The Hydroxylation of Aromatics with Oxygen by Vanadium Catalysts Supported on N-doped Carbon Materials. *Catalysis Letters*, **2015**, 145, 1014-1021	2.8	13
101	Chemoselective Transfer Hydrogenation of Aldehydes and Ketones with a Heterogeneous Iridium Catalyst in Water. *Catalysis Letters*, **2015**, 145, 1008-1013	2.8	22
100	Selective and recyclable rhodium nanocatalysts for the reductive N-alkylation of nitrobenzenes and amines with aldehydes. *RSC Advances*, **2015**, 5, 56936-56941	3.7	20
99	Highly permeable and robust membranes assembled from block-copolymer-functionalized carbon nanotubes. *Journal of Membrane Science*, **2015**, 493, 224-231	9.6	9
98	Surface functionalization of carbon nanotubes by direct encapsulation with varying dosages of amphiphilic block copolymers. *Nanotechnology*, **2015**, 26, 325601	3.4	7
97	Atomic-layer-deposition-enabled nonwoven membranes with hierarchical ZnO nanostructures for switchable water/oil separations. *Journal of Membrane Science*, **2015**, 493, 478-485	9.6	57
96	Interconnected mesoporous carbon sheet for supercapacitors from low-cost resources. *Materials Letters*, **2015**, 158, 237-240	3.3	17
95	Filtration-based synthesis of micelle-derived composite membranes for high-flux ultrafiltration. *ACS Applied Materials & Interfaces*, **2015**, 7, 6974-81	9.5	25
94	Enhancing the hydrophilicity and water permeability of polypropylene membranes by nitric acid activation and metal oxide deposition. *Journal of Membrane Science*, **2015**, 487, 109-116	9.6	50

93	Crosslinking of polyimide atomic-layer-deposited on polyethersulfone membranes for synergistically enhanced performances. *Journal of Membrane Science*, **2015**, 486, 161-168	9.6	11
92	A PEGylated colorimetric and turn-on fluorescent sensor based on BODIPY for Hg(II) detection in water. *Polymer Chemistry*, **2015**, 6, 4279-4289	4.9	41
91	Polydiacetylene-based sensor for highly sensitive and selective Pb 2+ detection. *Dyes and Pigments*, **2015**, 120, 307-313	4.6	56
90	A highly specific fluorescent probe for hypochlorite based on fluorescein derivative and its endogenous imaging in living cells. *Dyes and Pigments*, **2015**, 120, 22-29	4.6	79
89	High hydrophilicity and excellent adsorption ability of a stretched polypropylene/graphene oxide composite membrane achieved by plasma assisted surface modification. *RSC Advances*, **2015**, 5, 71240-71252	3.7	6
88	Photocontrollable release and enhancement of photodynamic therapy based on host-guest supramolecular amphiphiles. *Journal of Materials Chemistry B*, **2015**, 3, 7417-7426	7.3	32
87	Unusual Air Filters with Ultrahigh Efficiency and Antibacterial Functionality Enabled by ZnO Nanorods. *ACS Applied Materials & Interfaces*, **2015**, 7, 21538-44	9.5	91
86	Reversible switch between the nanoporous and the nonporous state of amphiphilic block copolymer films regulated by selective swelling. *Soft Matter*, **2015**, 11, 6927-37	3.6	13
85	The synthesis of UDP-selective fluorescent probe and its imaging application in living cells. *Bioorganic and Medicinal Chemistry Letters*, **2015**, 25, 262-5	2.9	6
84	In Situ Trapped and Immobilized Palladium Nanoparticles as Active and Clean Catalysts for Suzuki–Miyaura Reaction. *Advanced Synthesis and Catalysis*, **2015**, 357, 2827-2832	5.6	14
83	Surface Attachment of Gold Nanoparticles Guided by Block Copolymer Micellar Films and Its Application in Silicon Etching. *Materials*, **2015**, 8, 3793-3805	3.5	2
82	Monolithic Membranes with Designable Pore Geometries and Sizes via Retarded Evaporation of Block Copolymer Supramolecules. *Macromolecules*, **2015**, 48, 8471-8479	5.5	14
81	Facile Synthesis of Dual-Layer Organic Solvent Nanofiltration (OSN) Hollow Fiber Membranes. *ACS Sustainable Chemistry and Engineering*, **2015**, 3, 3019-3023	8.3	82
80	Isoporous membranes with gradient porosity by selective swelling of UV-crosslinked block copolymers. *Journal of Membrane Science*, **2015**, 476, 449-456	9.6	29
79	A highly sensitive and selective fluorescein-based fluorescence probe for Au3+ and its application in living cell imaging. *Sensors and Actuators B: Chemical*, **2015**, 209, 1005-1010	8.5	39
78	Plasma activation and atomic layer deposition of TiO2 on polypropylene membranes for improved performances of lithium-ion batteries. *Journal of Membrane Science*, **2014**, 458, 217-224	9.6	93
77	Turning Low-Cost Filter Papers to Highly Efficient Membranes for Oil/Water Separation by Atomic-Layer-Deposition-Enabled Hydrophobization. *Industrial & Engineering Chemistry Research*, **2014**, 53, 16516-16522	3.9	28
76	Extremely efficient and recyclable absorbents for oily pollutants enabled by ultrathin-layered functionalization. *ACS Applied Materials & Interfaces*, **2014**, 6, 18816-23	9.5	32

75	Nanoslitting of phase-separated block copolymers by solvent swelling for membranes with ultrahigh flux and sharp selectivity. *Chemical Communications*, **2014**, 50, 12022-5	5.8	32
74	A highly sensitive and selective ratiometric fluorescent sensor for Zn2+ ion based on ICT and FRET. *Dyes and Pigments*, **2014**, 102, 301-307	4.6	61
73	Ammonium-bearing dinuclear copper(II) complex: a highly selective and sensitive colorimetric probe for pyrophosphate. *Organic Letters*, **2014**, 16, 2220-3	6.2	62
72	Surface-active isoporous membranes nondestructively derived from perpendicularly aligned block copolymers for size-selective separation. *Journal of Membrane Science*, **2014**, 466, 229-237	9.6	42
71	A fluorescent probe with high selectivity to glutathione over cysteine and homocysteine based on positive effect of carboxyl on nucleophilic substitution in CTAB. *Sensors and Actuators B: Chemical*, **2014**, 192, 708-713	8.5	52
70	The hydroxylation of benzene to phenol over heteropolyacid encapsulated in silica. *Catalysis Communications*, **2014**, 55, 34-37	3.2	18
69	Stretching induces pore formation in the β-nucleated polypropylene/graphene oxide composite. *Composites Science and Technology*, **2014**, 99, 59-66	8.6	14
68	Atomic layer deposition of polyimide on microporous polyethersulfone membranes for enhanced and tunable performances. *AICHE Journal*, **2014**, 60, 3614-3622	3.6	22
67	Colorimetric and fluorometric assays for acetylcholinesterase and its inhibitors screening based on a fluorescein derivate. *Bioorganic and Medicinal Chemistry Letters*, **2014**, 24, 552-5	2.9	18
66	Insights into membrane fouling of a side-stream ceramic membrane reactor for phenol hydroxylation over ultrafine TS-1. *Chemical Engineering Journal*, **2014**, 239, 373-380	14.7	17
65	Plasma activation of porous polytetrafluoroethylene membranes for superior hydrophilicity and separation performances via atomic layer deposition of TiO2. *Journal of Membrane Science*, **2013**, 443, 62-68	9.6	44
64	Selective Reduction of Nitroarenes with Molybdenum Disulfide. *Chinese Journal of Chemistry*, **2013**, 31, 987-991	4.9	12
63	Membranes with highly ordered straight nanopores by selective swelling of fast perpendicularly aligned block copolymers. *ACS Nano*, **2013**, 7, 9961-74	16.7	124
62	Responsive, fluorescent micellar nanospheres of amphiphilic block copolymers for the characterization of membrane pores. *Journal of Membrane Science*, **2013**, 441, 9-17	9.6	3
61	Hydrophilization of porous polypropylene membranes by atomic layer deposition of TiO2 for simultaneously improved permeability and selectivity. *Journal of Membrane Science*, **2013**, 448, 215-222	9.6	65
60	Energy-saving, responsive membranes with sharp selectivity assembled from micellar nanofibers of amphiphilic block copolymers. *Journal of Materials Chemistry A*, **2013**, 1, 7100	13	10
59	Selective-swelling-induced porous block copolymers and their robust TiO2 replicas via atomic layer deposition for antireflective applications. *Journal of Materials Chemistry C*, **2013**, 1, 5133	7.1	17
58	PVDF membranes with simultaneously enhanced permeability and selectivity by breaking the tradeoff effect via atomic layer deposition of TiO2. *Journal of Membrane Science*, **2013**, 442, 57-64	9.6	109

57	Highly ordered TiO2 nanostructures by sequential vapour infiltration of block copolymer micellar films in an atomic layer deposition reactor. *Journal of Materials Chemistry C*, **2013**, 1, 1029-1036	7.1	30
56	Enhanced Catalytic Properties of Palladium Nanoparticles Deposited on a Silanized Ceramic Membrane Support with a Flow-Through Method. *Industrial & Engineering Chemistry Research*, **2013**, 52, 14099-14106	3.9	20
55	Uniform and Conformal Carbon Nanofilms Produced Based on Molecular Layer Deposition. *Materials*, **2013**, 6, 5602-5612	3.5	20
54	Influence of lipid composition on the phase transition temperature of liposomes composed of both DPPC and HSPC. *Drug Development and Industrial Pharmacy*, **2013**, 39, 197-204	3.6	70
53	Modification of ceramic membranes for pore structure tailoring: The atomic layer deposition route. *Journal of Membrane Science*, **2012**, 397-398, 17-23	9.6	65
52	Water-dispersible, uniform nanospheres by heating-enabled micellization of amphiphilic block copolymers in polar solvents. *Langmuir*, **2012**, 28, 3011-7	4	15
51	Highly porous metal oxide networks of interconnected nanotubes by atomic layer deposition. *Nano Letters*, **2012**, 12, 5033-8	11.5	73
50	Atomic layer deposition of alumina on porous polytetrafluoroethylene membranes for enhanced hydrophilicity and separation performances. *Journal of Membrane Science*, **2012**, 415-416, 435-443	9.6	73
49	Selective Hydrogenation of Nitroarenes and Olefins over Rhodium Nanoparticles on Hydroxyapatite. *Advanced Synthesis and Catalysis*, **2012**, 354, 2689-2694	5.6	34
48	Swelling-induced mesoporous block copolymer membranes with intrinsically active surfaces for size-selective separation. *Journal of Materials Chemistry*, **2012**, 22, 20542		82
47	Precise pore size tuning and surface modifications of polymeric membranes using the atomic layer deposition technique. *Journal of Membrane Science*, **2011**, 385-386, 1-9	9.6	72
46	Fabrication, structural characterization and sensing properties of polydiacetylene nanofibers templated from anodized aluminum oxide. *Sensors and Actuators B: Chemical*, **2011**, 155, 584-591	8.5	13
45	An emerging pore-making strategy: confined swelling-induced pore generation in block copolymer materials. *Advanced Materials*, **2011**, 23, 2134-48	24	132
44	Swelling-induced morphology reconstruction in block copolymer nanorods: kinetics and impact of surface tension during solvent evaporation. *ACS Nano*, **2011**, 5, 1928-38	16.7	48
43	Calibration of optically trapped nanotools. *Nanotechnology*, **2010**, 21, 175501	3.4	22
42	Responsive micellar films of amphiphilic block copolymer micelles: control on micelle opening and closing. *Langmuir*, **2010**, 26, 8869-74	4	34
41	Synthesis of Two-Dimensional Carbon and Carbon–Metal Nanocomposites Using a Natural Cellular Material as the Carbon Precursor. *European Journal of Inorganic Chemistry*, **2010**, 2010, 4367-4373	2.3	2
40	Nanoporous metal membranes with bicontinuous morphology from recyclable block-copolymer templates. *Advanced Materials*, **2010**, 22, 2068-72	24	104

39	Templated self-assembly of block copolymers Toward the rational design of plasmonic nanorods. *Physica Status Solidi (B): Basic Research*, **2010**, 247, 2470-2475	1.3	7
38	Nanoscopic Morphologies in Block Copolymer Nanorods as Templates for Atomic-Layer Deposition of Semiconductors. *Advanced Materials*, **2009**, 21, 2763-2766	24	87
37	Fabrication of supported mesoporous TiO2 membranes: matching the assembled and interparticle pores for an improved ultrafiltration performance. *ACS Applied Materials & Interfaces*, **2009**, 1, 1607-12	9.5	29
36	Nanostructured gold films for SERS by block copolymer-templated galvanic displacement reactions. *Nano Letters*, **2009**, 9, 2384-9	11.5	125
35	Mesoporous block copolymer nanorods by swelling-induced morphology reconstruction. *Nano Letters*, **2008**, 8, 3548-53	11.5	65
34	Mesoporous Polymer Nanofibers by Infiltration of Block Copolymers with Sacrificial Domains into Porous Alumina. *Chemistry of Materials*, **2008**, 20, 379-381	9.6	39
33	Nanopatterned carbon films with engineered morphology by direct carbonization of UV-stabilized block copolymer films. *Nano Letters*, **2008**, 8, 3993-7	11.5	48
32	Synthesis of TiO2 nanotube networks from the mineralization of swim bladder membrane in supercritical CO2. *Journal of Supercritical Fluids*, **2007**, 42, 310-315	4.2	8
31	Colorimetric Anion Sensing and Color Imaging Based on Catalyzed Deprotection in a New Azonaphthol Chromophore. *Journal of Nanoscience and Nanotechnology*, **2006**, 6, 3551-3554	1.3	3
30	Oleic acid as the capping agent in the synthesis of noble metal nanoparticles in imidazolium-based ionic liquids. *Chemical Communications*, **2006**, 2545-7	5.8	87
29	Micropatterned polymer surfaces induced by nonsolvent. *Langmuir*, **2006**, 22, 1928-31	4	43
28	Polypropylene/Silica Nanocomposites Prepared by in-Situ Sol Gel Reaction with the Aid of CO2. *Macromolecules*, **2005**, 38, 5617-5624	5.5	71
27	Facile synthesis of polyaniline nanofibers using chloroaurate acid as the oxidant. *Langmuir*, **2005**, 21, 833-6	4	136
26	Fabrication and characterization of magnetic carbon nanotube composites. *Journal of Materials Chemistry*, **2005**, 15, 4497		76
25	Replication of biological organizations through a supercritical fluid route. *Chemical Communications* , **2005**, 2948-50	5.8	33
24	Fabrication of flowerlike polymer superstructures using polymer/zeolite composites prepared with supercritical CO2. *Journal of Physical Chemistry B*, **2005**, 109, 2605-9	3.4	15
23	Compressed-CO2-assisted patterning of polymers. *Journal of Physical Chemistry B*, **2005**, 109, 12376-9	3.4	20
22	Carbon microspheres with supported silver nanoparticles prepared from pollen grains. *Langmuir*, **2005**, 21, 10846-9	4	41

21	Structure and conformation properties of 1-alkyl-3-methylimidazolium halide ionic liquids: a density-functional theory study. *Journal of Chemical Physics*, **2005**, 123, 174501	3.9	64
20	Solvothermal synthesis of mesoporous Eu2O3□iO2 composites. *Microporous and Mesoporous Materials*, **2005**, 81, 169-174	5.3	47
19	A simple and inexpensive route to synthesize porous silica microflowers by supercritical CO2. *Microporous and Mesoporous Materials*, **2005**, 87, 10-14	5.3	10
18	Novel, positively charged membrane from a blending, crosslinking, and coagulation procedure. *Journal of Applied Polymer Science*, **2005**, 96, 1847-1854	2.9	3
17	Phase-Separation-Induced Micropatterned Polymer Surfaces and Their Applications. *Advanced Functional Materials*, **2005**, 15, 655-663	15.6	31
16	Fabrication of Ruthenium□arbon Nanotube Nanocomposites in Supercritical Water. *Advanced Materials*, **2005**, 17, 928-932	24	126
15	Adhesion and proliferation of OCT-1 osteoblast-like cells on micro- and nano-scale topography structured poly(L-lactide). *Biomaterials*, **2005**, 26, 4453-9	15.6	297
14	High damping property of microcellular polymer prepared by friendly environmental approach. *Journal of Supercritical Fluids*, **2005**, 33, 259-267	4.2	37
13	Compressed CO2-enhanced solubilization of 1-butyl-3-methylimidazolium tetrafluoroborate in reverse micelles of Triton X-100. *Journal of Chemical Physics*, **2004**, 121, 7408-12	3.9	14
12	Synthesis and characterization of polyether structure carbon nitride. *Journal of Materials Research*, **2004**, 19, 1736-1741	2.5	17
11	Insoluble Wilkinson Catalyst RhCl(TPPTS)3 Supported on SBA-15 for Heterogeneous Hydrogenation with and Without Supercritical CO2. *Catalysis Letters*, **2004**, 98, 225-228	2.8	11
10	Synthesis of montmorillonite/polystyrene nanocomposites in supercritical carbon dioxide. *Journal of Applied Polymer Science*, **2004**, 94, 1194-1197	2.9	16
9	In situ Eu2O3 coating on the walls of mesoporous silica SBA-15 in supercritical ethane + ethanol mixture. *Microporous and Mesoporous Materials*, **2004**, 75, 101-105	5.3	8
8	pH Sensitive polypropylene porous membrane prepared by grafting acrylic acid in supercritical carbon dioxide. *Polymer*, **2004**, 45, 855-860	3.9	55
7	Aqueous/ionic liquid interfacial polymerization for preparing polyaniline nanoparticles. *Polymer*, **2004**, 45, 3017-3019	3.9	156
6	Encapsulation of polystyrene within carbon nanotubes with the aid of supercritical CO2. *Carbon*, **2004**, 42, 458-460	10.4	41
5	A simple route to micropatterned polymer surfaces. *Chemical Communications*, **2004**, 800-1	5.8	17
4	Carbon nanotube/poly(2,4-hexadiyne-1,6-diol) nanocomposites prepared with the aid of supercritical CO2. *Chemical Communications*, **2004**, 2190-1	5.8	26

3	Synthesis of Tubular Graphite Cones through a Catalytically Thermal Reduction Route. *Journal of Physical Chemistry B*, **2004**, 108, 9811-9814	3.4	2
2	Synthesis of polypropylene/ZnS composite using the template prepared by supercritical CO2. *Chemical Physics Letters*, **2003**, 381, 271-277	2.5	5
1	Preparation of polysulfone-based block copolymer ultrafiltration membranes by selective swelling and sacrificing nanofillers. *Frontiers of Chemical Science and Engineering*,1	4.5	1