

Zhi-Kang Xu

List of Publications by Year in Descending Order

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

251
papers

11,506
citations

62
h-index

97
g-index

265
ext. papers

13,768
ext. citations

7.4
avg, IF

7.01
L-index

#	Paper	IF	Citations
251	End-functionalized polymers by controlled/living radical polymerizations: synthesis and applications. <i>Polymer Chemistry</i> , 2022 , 13, 300-358	4.9	3
250	Revisiting the adhesion mechanism of mussel-inspired chemistry.. <i>Chemical Science</i> , 2022 , 13, 1698-1705	9.4	3
249	Surface and Interface Engineering for Advanced Nanofiltration Membranes. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2022 , 40, 124-137	3.5	1
248	Biomimetic gill-inspired membranes with direct-through micropores for water remediation by efficiently removing microplastic particles. <i>Chemical Engineering Journal</i> , 2022 , 434, 134758	14.7	2
247	Positively-charged nanofiltration membranes constructed via gas/liquid interfacial polymerization for Mg ²⁺ /Li ⁺ separation. <i>Journal of Membrane Science</i> , 2022 , 644, 119942	9.6	2
246	Ag Nanoparticle-Enabled Electroless Deposition of Ni on Mine-Formaldehyde Sponges for Oil/Water Separation, Piezoresistive Sensing, and Electromagnetic Shielding. <i>ACS Applied Nano Materials</i> , 2022 , 5, 4204-4213	5.6	1
245	Janus hollow fiber membranes with functionalized outer surfaces for continuous demulsification and separation of oil-in-water emulsions. <i>Journal of Membrane Science</i> , 2022 , 648, 120388	9.6	2
244	Formation of Metal-Organic Acid Surface Coatings via Oxidation-Mediated Coordination Assembly. <i>ACS Applied Polymer Materials</i> , 2022 , 4, 546-555	4.3	1
243	Surface and Interface Engineering of Polymer Membranes: Where We Are and Where to Go. <i>Macromolecules</i> , 2022 , 55, 3363-3383	5.5	3
242	Cu ²⁺ /alginate nanofiltration membranes fabricated at the aqueous contra-diffusion interface for salt/dye rejection. <i>Desalination</i> , 2022 , 535, 115806	10.3	0
241	Less-Ordered Hydration Shell around Poly(-diethylacrylamide) Is Insensitive to the Clouding Transition. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 12104-12109	3.4	
240	Fabrication of "Spongy Skin" on Diversified Materials Based on Surface Swelling Non-Solvent-Induced Phase Separation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 57000-57008	9.5	2
239	Janus Metal-Organic Frameworks/Wood Aerogel Composites for Boosting Catalytic Performance by Le Chatelier's Principle. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 51039-51047	9.5	2
238	Intraocular Lens with Mussel-Inspired Coating for Preventing Posterior Capsule Opacification via Photothermal Effect.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 3579-3586	4.1	1
237	Surface Coatings via the Assembly of Metal-Monophenolic Networks. <i>Langmuir</i> , 2021 , 37, 3721-3730	4	5
236	Preparation and Performance Assessment of Low-Pressure Affinity Membranes Based on Functionalized, Electrospun Polyacrylates for Gold Nanoparticle Filtration. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 15659-15667	9.5	6
235	Interfacial Polymerization at the Alkane/Ionic Liquid Interface. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 14636-14643	16.4	14

234	Interfacial Polymerization at the Alkane/Ionic Liquid Interface. <i>Angewandte Chemie</i> , 2021 , 133, 14757-14764	3.6	0
233	Alginate Hydrogel Assisted Controllable Interfacial Polymerization for High-Performance Nanofiltration Membranes. <i>Membranes</i> , 2021 , 11,	3.8	2
232	Polyamide nanofilms with linearly-tunable thickness for high performance nanofiltration. <i>Journal of Membrane Science</i> , 2021 , 627, 119142	9.6	27
231	Bioinspired Self-Assembling Materials for Modulating Enzyme Functions. <i>Advanced Functional Materials</i> , 2021 , 31, 2104819	15.6	4
230	Polyamide-based membranes consisting of nanocomposite interlayers for high performance nanofiltration. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 49940	2.9	4
229	Compressible Carbon Sponges from Delignified Wood for Fast Cleanup and Enhanced Recovery of Crude Oil Spills by Joule Heat and Photothermal Effect. <i>Advanced Functional Materials</i> , 2021 , 31, 2006806	15.6	38
228	Engineered Coatings via the Assembly of Amino-Quinone Networks. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 2346-2354	16.4	18
227	Capillary-driven blood separation and in-situ electrochemical detection based on 3D conductive gradient hollow fiber membrane. <i>Biosensors and Bioelectronics</i> , 2021 , 171, 112722	11.8	15
226	Wettability Switchable Membranes for Separating Both Oil-in-water and water-in-oil emulsions. <i>Journal of Membrane Science</i> , 2021 , 624, 118976	9.6	19
225	Engineered Coatings via the Assembly of Amino-Quinone Networks. <i>Angewandte Chemie</i> , 2021 , 133, 2376-2384	3.6	2
224	Water-Salt Oligomers Enable Supersoluble Electrolytes for High-Performance Aqueous Batteries. <i>Advanced Materials</i> , 2021 , 33, e2007470	24	25
223	Modular assembly of enzyme loaded nanoparticles in 3D hollow fiber electrode for electrochemical sensing. <i>Chemical Engineering Journal</i> , 2021 , 421, 129721	14.7	5
222	MOF-enzyme hybrid nanosystem decorated 3D hollow fiber membranes for in-situ blood separation and biosensing array. <i>Biosensors and Bioelectronics</i> , 2021 , 190, 113413	11.8	11
221	Janus membranes for fast-mass-transfer separation of viscous ionic liquids from emulsions. <i>Journal of Membrane Science</i> , 2021 , 637, 119643	9.6	2
220	Loose nanofiltration membranes with assembled antifouling surfaces of organophosphonic acid/Fe(III) for managing textile dyeing effluents. <i>Journal of Membrane Science</i> , 2021 , 640, 119821	9.6	5
219	Janus poly(vinylidene fluoride)-graft-(TiO ₂ nanoparticles and PFDS) membranes with loose architecture and asymmetric wettability for efficient switchable separation of surfactant-stabilized oil/water emulsions. <i>Journal of Membrane Science</i> , 2021 , 640, 119837	9.6	8
218	Ultra-robust vertically aligned three-dimensional (3D) Janus hollow fiber membranes for interfacial solar-driven steam generation with salt-resistant and multi-media purification. <i>Chemical Engineering Journal</i> , 2021 , 425, 130118	14.7	9
217	Impact of Thermal History on the Kinetic Response of Thermo-responsive Poly(diethylene glycol monomethyl ether methacrylate)-poly(poly(ethylene glycol)methyl ether methacrylate) Thin Films Investigated by In Situ Neutron Reflectivity. <i>Langmuir</i> , 2020 , 36, 6228-6237	4	5

216	Concentrating water-soluble ionic liquids from aqueous solutions: Osmotic distillation with hydrophobic membranes. <i>Journal of Membrane Science</i> , 2020 , 608, 118222	9.6	2
215	Carboxylated wood-based sponges with underoil superhydrophilicity for deep dehydration of crude oil. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11354-11361	13	22
214	Advanced functional polymer materials. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 1803-1915	7.8	70
213	Asymmetric Surface Engineering for Janus Membranes. <i>Advanced Materials Interfaces</i> , 2020 , 7, 1902064	4.6	32
212	Hollow fiber membranes with Janus surfaces for continuous deemulsification and separation of oil-in-water emulsions. <i>Journal of Membrane Science</i> , 2020 , 602, 117964	9.6	31
211	Osmotic pressure as driving force for recovering ionic liquids from aqueous solutions. <i>Journal of Membrane Science</i> , 2020 , 599, 117835	9.6	6
210	Surface Metallization of Porous Polymer Materials for Multifunctional Applications. <i>Langmuir</i> , 2020 , 36, 1454-1461	4	5
209	One-pot mussel-inspired and silication: A platform for constructing oil-repellent surfaces toward crude oil/water separation. <i>Journal of Membrane Science</i> , 2020 , 601, 117915	9.6	14
208	Hall of Fame Article: Asymmetric Surface Engineering for Janus Membranes (Adv. Mater. Interfaces 7/2020). <i>Advanced Materials Interfaces</i> , 2020 , 7, 2070035	4.6	
207	Janus Poly(Vinylidene Fluoride) Membranes with Penetrative Pores for Photothermal Desalination. <i>Research</i> , 2020 , 2020, 3241758	7.8	19
206	Polyamide nanofilms synthesized via controlled interfacial polymerization on a "jelly" surface. <i>Chemical Communications</i> , 2020 , 56, 7249-7252	5.8	16
205	Ultra-thin graphene oxide films via contra-diffusion method: Fast fabrication for ion rejection. <i>Journal of Membrane Science</i> , 2020 , 595, 117586	9.6	14
204	Ceramic membrane with protein-resistant surface via dopamine/diglycolamine co-deposition. <i>Separation and Purification Technology</i> , 2020 , 234, 116135	8.3	18
203	Thermoresponsive Diblock Copolymer Films with a Linear Shrinkage Behavior and Its Potential Application in Temperature Sensors. <i>Langmuir</i> , 2020 , 36, 742-753	4	11
202	Polydopamine Nanotubes Decorated with Ag Nanoparticles as Catalyst for the Reduction of Methylene Blue. <i>ACS Applied Nano Materials</i> , 2020 , 3, 156-164	5.6	12
201	Lysozyme Membranes Promoted by Hydrophobic Substrates for Ultrafast and Precise Organic Solvent Nanofiltration. <i>Nano Letters</i> , 2020 , 20, 8760-8767	11.5	12
200	Codeposition of Levodopa and Polyethyleneimine: Reaction Mechanism and Coating Construction. <i>ACS Applied Materials & Interfaces</i> , 2020 ,	9.5	14
199	Vacuum-assisted diamine monomer distribution for synthesizing polyamide composite membranes by interfacial polymerization. <i>Journal of Membrane Science</i> , 2020 , 616, 118557	9.6	18

198	Nanofiltration membranes with hydrophobic microfiltration substrates for robust structure stability and high water permeation flux. <i>Journal of Membrane Science</i> , 2020 , 593, 117444	9.6	32
197	Dual-Layer Nanofilms via Mussel-Inspiration and Silication for Non-Iridescent Structural Color Spectrum in Flexible Displays. <i>ACS Applied Nano Materials</i> , 2019 , 2, 4556-4566	5.6	17
196	Delignified wood with unprecedented anti-oil properties for the highly efficient separation of crude oil/water mixtures. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 16735-16741	13	42
195	Polyamide Nanofiltration Membranes Incorporated with Cellulose Nanocrystals for Enhanced Water Flux and Chlorine Resistance. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 ,	8.3	7
194	Ultrathin metal/covalent-organic framework membranes towards ultimate separation. <i>Chemical Society Reviews</i> , 2019 , 48, 3811-3841	58.5	182
193	Surface modification of self-assembled isoporous polymer membranes for pressure-dependent high-resolution separation. <i>Polymer Chemistry</i> , 2019 , 10, 3201-3209	4.9	6
192	Photothermal Spongy Film for Enhanced Surface-Mediated Transfection to Primary Cells.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 2676-2684	4.1	10
191	Tough and Alkaline-Resistant Mussel-Inspired Wet Adhesion with Surface Salt Displacement via Polydopamine/Amine Synergy. <i>Langmuir</i> , 2019 , 35, 5257-5263	4	21
190	Nanomaterials with a photothermal effect for antibacterial activities: an overview. <i>Nanoscale</i> , 2019 , 11, 8680-8691	7.7	174
189	Cellulose nanocrystals as anti-oil nanomaterials for separating crude oil from aqueous emulsions and mixtures. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7033-7041	13	30
188	Janus polymer membranes prepared by single-side polydopamine deposition for dye adsorption and fine bubble aeration. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 2102-2109	7.8	10
187	Harnessing Solar-Driven Photothermal Effect toward the Water-Energy Nexus. <i>Advanced Science</i> , 2019 , 6, 1900883	13.6	104
186	Polypropylene Separators with Robust Mussel-inspired Coatings for High Lithium-ion Battery Performances. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2019 , 37, 1015-1022	3.5	9
185	Nanocomposite membranes embedded with functionalized MoS ₂ nanosheets for enhanced interfacial compatibility and nanofiltration performance. <i>Journal of Membrane Science</i> , 2019 , 591, 117318.6	9.6	54
184	Understanding the CO ₂ sorption mechanisms of the MgO-doped Na-based sorbent at low temperatures 2019 , 9, 672-686		4
183	Water Purification/Harvesting: Harnessing Solar-Driven Photothermal Effect toward the Water-Energy Nexus (Adv. Sci. 18/2019). <i>Advanced Science</i> , 2019 , 6, 1970111	13.6	4
182	Virtually Wall-Less Tubular Sponges as Compartmentalized Reaction Containers. <i>Research</i> , 2019 , 2019, 4152536	7.8	4
181	Janus membranes with controllable asymmetric configurations for highly efficient separation of oil-in-water emulsions. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7907-7917	13	81

180	Surface Deposition of Juglone/Fe on Microporous Membranes for Oil/Water Separation and Dye Adsorption. <i>Langmuir</i> , 2019 , 35, 3643-3650	4	24
179	Bioinspired Polydopamine/Polyzwitterion Coatings for Underwater Anti-Oil and -Freezing Surfaces. <i>Langmuir</i> , 2019 , 35, 1895-1901	4	28
178	Grain Boundaries of Self-Assembled Porous Polymer Films for Unclonable Anti-Counterfeiting. <i>ACS Applied Polymer Materials</i> , 2019 , 1, 47-53	4.3	12
177	Enhanced Stain Removal and Comfort Control Achieved by Cross-Linking Light and Thermo Dual-Responsive Copolymer onto Cotton Fabrics. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 5414-5426	9.5	31
176	Ultrafast formation of pyrogallol/polyethyleneimine nanofilms for aqueous and organic nanofiltration. <i>Journal of Membrane Science</i> , 2019 , 570-571, 270-277	9.6	16
175	Ceramic membranes with mussel-inspired and nanostructured coatings for water-in-oil emulsions separation. <i>Separation and Purification Technology</i> , 2019 , 212, 737-746	8.3	28
174	Self-Assembly of Patterned Porous Films from Cyclic Polystyrenes via the Breath Figure Method. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 3926-3933	3.8	18
173	Membranes: Dopamine: Just the Right Medicine for Membranes (Adv. Funct. Mater. 8/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870052	15.6	5
172	Janus Membranes with Charged Carbon Nanotube Coatings for Deemulsification and Separation of Oil-in-Water Emulsions. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 9832-9840	9.5	96
171	Solar-driven self-heating sponges for highly efficient crude oil spill remediation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8880-8885	13	78
170	Nanofilms directly formed on macro-porous substrates for molecular and ionic sieving. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 2908-2913	13	27
169	Synthesis of CO ₂ -Based Block Copolymers via Chain Transfer Polymerization Using Macroinitiators: Activity, Blocking Efficiency, and Nanostructure. <i>Macromolecules</i> , 2018 , 51, 791-800	5.5	20
168	Construction of Autonomic Self-Healing CO ₂ -Based Polycarbonates via One-Pot Tandem Synthetic Strategy. <i>Macromolecules</i> , 2018 , 51, 1308-1313	5.5	24
167	Robust Coatings via Catechol-Amine Codeposition: Mechanism, Kinetics, and Application. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 5902-5908	9.5	62
166	Dopamine: Just the Right Medicine for Membranes. <i>Advanced Functional Materials</i> , 2018 , 28, 1705327	15.6	176
165	Dopamine-assisted co-deposition: An emerging and promising strategy for surface modification. <i>Advances in Colloid and Interface Science</i> , 2018 , 256, 111-125	14.3	125
164	Vertically Oriented Microporous Membranes Prepared by Bidirectional Freezing. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2018 , 36, 880-887	3.5	8
163	Nanocomposite membranes of polydopamine/electropositive nanoparticles/polyethyleneimine for nanofiltration. <i>Journal of Membrane Science</i> , 2018 , 545, 99-106	9.6	66

162	Sandwich-structured composite separators with an anisotropic pore architecture for highly safe Li-ion batteries. <i>Composites Communications</i> , 2018 , 8, 46-51	6.7	18
161	Novel thin film composite membranes supported by cellulose triacetate porous substrates for high-performance forward osmosis. <i>Polymer</i> , 2018 , 153, 150-160	3.9	21
160	Polyphenol-Assisted Exfoliation of Transition Metal Dichalcogenides into Nanosheets as Photothermal Nanocarriers for Enhanced Antibiofilm Activity. <i>ACS Nano</i> , 2018 , 12, 12347-12356	16.7	82
159	Bioinspired Block Copolymer for Mineralized Nanoporous Membrane. <i>ACS Nano</i> , 2018 , 12, 11471-11480	16.7	33
158	Co-deposition Kinetics of Polydopamine/Polyethyleneimine Coatings: Effects of Solution Composition and Substrate Surface. <i>Langmuir</i> , 2018 , 34, 13123-13131	4	52
157	CuSO ₄ /HO-Triggered Polydopamine/Poly(sulfobetaine methacrylate) Coatings for Antifouling Membrane Surfaces. <i>Langmuir</i> , 2017 , 33, 1210-1216	4	90
156	Directed Self-Assembly of Polystyrene-b-poly(propylene carbonate) on Chemical Patterns via Thermal Annealing for Next Generation Lithography. <i>Nano Letters</i> , 2017 , 17, 1233-1239	11.5	73
155	Forward osmosis membranes with unprecedented water flux. <i>Journal of Membrane Science</i> , 2017 , 529, 47-54	9.6	63
154	Janus Membranes with Opposing Surface Wettability Enabling Oil-to-Water and Water-to-Oil Emulsification. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 5062-5066	9.5	79
153	UV-assisted treatment on hydrophobic acrylic IOLs anterior surface with methacryloyloxyethyl phosphorylcholine: Reducing inflammation and maintaining low posterior capsular opacification properties. <i>Materials Science and Engineering C</i> , 2017 , 75, 1289-1298	8.3	11
152	Mussel-inspired polydopamine coatings for large-scale and angle-independent structural colors. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 3898-3902	7.1	45
151	Nanofiltration Membrane with a Mussel-Inspired Interlayer for Improved Permeation Performance. <i>Langmuir</i> , 2017 , 33, 2318-2324	4	104
150	Photocatalytic Nanofiltration Membranes with Self-Cleaning Property for Wastewater Treatment. <i>Advanced Functional Materials</i> , 2017 , 27, 1700251	15.6	162
149	Ultrathin Alginate Coatings as Selective Layers for Nanofiltration Membranes with High Performance. <i>ChemSusChem</i> , 2017 , 10, 2788-2795	8.3	28
148	Fluorescent linear CO ₂ -derived poly(hydroxyurethane) for cool white LED. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 4892-4898	7.1	24
147	Separators with Biomineralized Zirconia Coatings for Enhanced Thermo- and Electro-Performance of Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 21971-21978	9.5	36
146	Polysulfone membranes via thermally induced phase separation. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2017 , 35, 846-856	3.5	9
145	Polydopamine Coatings with Nanopores for Versatile Molecular Separation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 14437-14444	9.5	84

144	Nanofiltration membranes with cellulose nanocrystals as an interlayer for unprecedented performance. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 16289-16295	13	197
143	Cross-linked perforated honeycomb membranes with improved mechanical and chemical properties. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 1073-1078	7.8	7
142	Nanocomposite Membranes via the Codeposition of Polydopamine/Polyethylenimine with Silica Nanoparticles for Enhanced Mechanical Strength and High Water Permeability. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 2966-2972	9.5	84
141	Deposition and Adhesion of Polydopamine on the Surfaces of Varying Wettability. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 30943-30950	9.5	88
140	Dopamine-Triggered One-Step Polymerization and Codeposition of Acrylate Monomers for Functional Coatings. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 34356-34366	9.5	73
139	Antimicrobial membrane surfaces via efficient polyethyleneimine immobilization and cationization. <i>Applied Surface Science</i> , 2017 , 426, 972-979	6.7	32
138	Codeposition of catechol&polyethyleneimine followed by interfacial polymerization for nanofiltration membranes with enhanced stability. <i>Journal of Applied Polymer Science</i> , 2017 , 134, 45422	2.9	26
137	Effects of molecular weight distribution on the self-assembly of end-functionalized polystyrenes. <i>Polymer Chemistry</i> , 2017 , 8, 4290-4298	4.9	18
136	Understanding the Oxidative Stability of Antifouling Polymer Brushes. <i>Langmuir</i> , 2017 , 33, 7298-7304	4	11
135	Janus hollow fiber membrane with a mussel-inspired coating on the lumen surface for direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2017 , 523, 1-7	9.6	88
134	Preparation and characterization of cellulose triacetate membranes via thermally induced phase separation. <i>Journal of Applied Polymer Science</i> , 2017 , 134,	2.9	14
133	Multiple Liquid Manipulations on Patterned Surfaces with Tunable Adhesive Property. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700490	4.6	11
132	Janus Membranes: Exploring Duality for Advanced Separation. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 13398-13407	16.4	284
131	Mussel-Inspired Coatings Directed and Accelerated by an Electric Field. <i>Macromolecular Rapid Communications</i> , 2016 , 37, 1460-5	4.8	17
130	Polyphenol Coating as an Interlayer for Thin-Film Composite Membranes with Enhanced Nanofiltration Performance. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 32512-32519	9.5	132
129	Janus-Membranen: Erforschung ihrer Dualit&ff hochentwickelte Stofftrennungen. <i>Angewandte Chemie</i> , 2016 , 128, 13596-13605	3.6	12
128	PVDF/PAN blend separators via thermally induced phase separation for lithium ion batteries. <i>Polymer</i> , 2016 , 107, 54-60	3.9	63
127	Poly(vinylidene fluoride) separators with dual-asymmetric structure for high-performance lithium ion batteries. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2016 , 34, 1423-1435	3.5	18

126	Effects of polyethyleneimine molecular weight and proportion on the membrane hydrophilization by codepositing with dopamine. <i>Journal of Applied Polymer Science</i> , 2016 , 133,	2.9	64
125	Janus Membranes with Asymmetric Wettability for Fine Bubble Aeration. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500774	4.6	101
124	Thin film composite membranes combining carbon nanotube intermediate layer and microfiltration support for high nanofiltration performances. <i>Journal of Membrane Science</i> , 2016 , 515, 238-244	9.6	174
123	Nanofiltration membranes with narrowed pore size distribution via pore wall modification. <i>Chemical Communications</i> , 2016 , 52, 8589-92	5.8	49
122	CuSO ₄ /H ₂ O ₂ -Induced Rapid Deposition of Polydopamine Coatings with High Uniformity and Enhanced Stability. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 3054-7	16.4	288
121	Hierarchically porous carbon membranes derived from PAN and their selective adsorption of organic dyes. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2016 , 34, 23-33	3.5	44
120	Novel nanofiltration membrane with ultrathin zirconia film as selective layer. <i>Journal of Membrane Science</i> , 2016 , 500, 265-271	9.6	72
119	Co-deposition of tannic acid and diethylenetriamine for surface hydrophilization of hydrophobic polymer membranes. <i>Applied Surface Science</i> , 2016 , 360, 291-297	6.7	56
118	Polypropylene microfiltration membranes modified with TiO ₂ nanoparticles for surface wettability and antifouling property. <i>Journal of Membrane Science</i> , 2016 , 500, 8-15	9.6	91
117	Water-Triggered Self-Healing Coatings of Hydrogen-Bonded Complexes for High Binding Affinity and Antioxidative Property. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600167	4.6	36
116	CuSO ₄ /H ₂ O ₂ -Induced Rapid Deposition of Polydopamine Coatings with High Uniformity and Enhanced Stability. <i>Angewandte Chemie</i> , 2016 , 128, 3106-3109	3.6	107
115	Composite nanofiltration membranes via the co-deposition and cross-linking of catechol/polyethylenimine. <i>RSC Advances</i> , 2016 , 6, 34096-34102	3.7	40
114	Surface and interface engineering for organic-inorganic composite membranes. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 9716-9729	13	118
113	Graphene Oxide Nanofiltration Membranes Stabilized by Cationic Porphyrin for High Salt Rejection. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 12588-93	9.5	105
112	Conformal and non-conformal surface modification of honeycomb-patterned porous films via tunable Cassie-Wenzel transition. <i>RSC Advances</i> , 2016 , 6, 52131-52136	3.7	1
111	Polymer Membranes with Vertically Oriented Pores Constructed by 2D Freezing at Ambient Temperature. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 14174-81	9.5	14
110	Enzyme-triggered coatings of tea catechins/chitosan for nanofiltration membranes with high performance. <i>Green Chemistry</i> , 2016 , 18, 6205-6208	10	62
109	Nanofiltration Membranes with Narrow Pore Size Distribution via Contra-Diffusion-Induced Mussel-Inspired Chemistry. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 29696-29704	9.5	45

108	Surface modification of polypropylene microfiltration membrane by grafting poly(sulfobetaine methacrylate) and poly(ethylene glycol): Oxidative stability and antifouling capability. <i>Journal of Membrane Science</i> , 2015 , 492, 249-256	9.6	54
107	Polymer membrane with a mineral coating for enhanced curling resistance and surface wettability. <i>Chemical Communications</i> , 2015 , 51, 12779-82	5.8	41
106	Effects of quaternization on the morphological stability and antibacterial activity of electrospun poly(DMAEMA-co-AMA) nanofibers. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 133, 148-55	6	20
105	Polydopamine-Coated Porous Substrates as a Platform for Mineralized γ -FeOOH Nanorods with Photocatalysis under Sunlight. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 11567-74	9.5	108
104	Surface engineering of polymer membranes via mussel-inspired chemistry. <i>Journal of Membrane Science</i> , 2015 , 483, 42-59	9.6	301
103	Underwater superoleophobic coatings fabricated from tannic acid-decorated carbon nanotubes. <i>RSC Advances</i> , 2015 , 5, 16112-16115	3.7	14
102	Porphyrinated polyimide honeycomb films with high thermal stability for HCl gas sensing. <i>RSC Advances</i> , 2015 , 5, 30472-30477	3.7	30
101	Nanofiltration membranes via co-deposition of polydopamine/polyethylenimine followed by cross-linking. <i>Journal of Membrane Science</i> , 2015 , 476, 50-58	9.6	230
100	Humidity-Triggered Self-Healing of Microporous Polyelectrolyte Multilayer Coatings for Hydrophobic Drug Delivery. <i>Advanced Functional Materials</i> , 2015 , 25, 7470-7477	15.6	55
99	Synthesis of Polyphosphazene Derivatives via Thiol-ene Click Reactions in an Aqueous Medium. <i>Macromolecular Chemistry and Physics</i> , 2015 , 216, 671-677	2.6	4
98	Fabrication of Transferable Perforated Isoporous Membranes on Versatile Solid Substrates via the Breath Figure Method. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500285	4.6	13
97	Polydopamine as a Catalyst for Thiol Coupling. <i>ChemCatChem</i> , 2015 , 7, 3822-3825	5.2	17
96	Underwater superoleophobic meshes fabricated by poly(sulfobetaine)/polydopamine co-deposition. <i>RSC Advances</i> , 2015 , 5, 47592-47598	3.7	24
95	Co-deposition of catechol/polyethylenimine on porous membranes for efficient decolorization of dye water. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 14438-14444	13	128
94	Polydopamine-assisted deposition of heparin for selective adsorption of low-density lipoprotein. <i>RSC Advances</i> , 2015 , 5, 12922-12930	3.7	17
93	Highly Stable, Protein-Resistant Surfaces via the Layer-by-Layer Assembly of Poly(sulfobetaine methacrylate) and Tannic Acid. <i>Langmuir</i> , 2015 , 31, 5851-8	4	63
92	Cobalt-porphyrin/dansyl piperazine complex coated filter paper for fluorescence sensing of ammonia gas. <i>RSC Advances</i> , 2015 , 5, 99361-99363	3.7	8
91	Mussel-Inspired Modification of Honeycomb Structured Films for Superhydrophobic Surfaces with Tunable Water Adhesion. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 3667-3673	3.8	31

90	Systematic Investigation on the Formation of Honeycomb-Patterned Porous Films from Amphiphilic Block Copolymers. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 1971-1979	3.8	36
89	Polypropylene non-woven meshes with conformal glycosylated layer for lectin affinity adsorption: the effect of side chain length. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 115, 340-8	6	8
88	Poly(vinylidene fluoride) ultrafiltration membranes containing hybrid silica nanoparticles: Preparation, characterization and performance. <i>Polymer</i> , 2014 , 55, 1333-1340	3.9	40
87	Poly(vinylidene fluoride)/poly(acrylic acid)/calcium carbonate composite membranes via mineralization. <i>Journal of Membrane Science</i> , 2014 , 454, 144-154	9.6	30
86	Synthesis of core cross-linked star polystyrene with functional end groups and self-assemblies templated by breath figures. <i>Polymer Chemistry</i> , 2014 , 5, 5175-5182	4.9	16
85	Synthesis of polystyrene with cyclic, ionized and neutralized end groups and the self-assemblies templated by breath figures. <i>Polymer Chemistry</i> , 2014 , 5, 3666-3672	4.9	27
84	Kinetics-bolstered catalytic study of a high performance lipase-immobilized nanofiber membrane bioreactor. <i>RSC Advances</i> , 2014 , 4, 6151	3.7	10
83	Composite free-standing films of polydopamine/polyethyleneimine grown at the air/water interface. <i>RSC Advances</i> , 2014 , 4, 45415-45418	3.7	70
82	Multiple interfaces in self-assembled breath figures. <i>Chemical Communications</i> , 2014 , 50, 4024-39	5.8	123
81	Nonlithographic Fabrication of Nanostructured Micropatterns via Breath Figures and Solution Growth. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 4403-4409	3.8	18
80	Polystyrene with hydrophobic end groups: synthesis, kinetics, interfacial activity, and self-assemblies templated by breath figures. <i>Polymer Chemistry</i> , 2014 , 5, 4311-4320	4.9	21
79	Mussel-inspired modification of a polymer membrane for ultra-high water permeability and oil-in-water emulsion separation. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 10225-10230	13	498
78	Silica-decorated polypropylene microfiltration membranes with a mussel-inspired intermediate layer for oil-in-water emulsion separation. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 12566-72	9.5	254
77	Polystyrenes with hydrophilic end groups: synthesis, characterization, and effects on the self-assembly of breath figure arrays. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 845-54	3.4	49
76	Immobilization of horseradish peroxidase (HRP) on polyimide nanofibers blending with carbon nanotubes. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014 , 106, 56-62		20
75	Utilization of a biphasic oil/aqueous cellulose nanofiber membrane bioreactor with immobilized lipase for continuous hydrolysis of olive oil. <i>Cellulose</i> , 2014 , 21, 407-416	5.5	23
74	Glycosylated membranes: A promising biomimetic material. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	6
73	Preparation of polyphosphazene hydrogels for enzyme immobilization. <i>Molecules</i> , 2014 , 19, 9850-63	4.8	14

72	Fabrication of perforated isoporous membranes via a transfer-free strategy: enabling high-resolution separation of cells. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 22400-7	9.5	42
71	Biom mineralized polypropylene/CaCO ₃ composite nonwoven meshes for oil/water separation. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	10
70	Hydrophilic modification of PVDF microfiltration membranes by adsorption of facial amphiphile cholic acid. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 123, 809-13	6	15
69	Fabrication of antifouling membrane surface by poly(sulfobetaine methacrylate)/polydopamine co-deposition. <i>Journal of Membrane Science</i> , 2014 , 466, 18-25	9.6	181
68	Novel separation membranes based on zwitterionic colloid particles: tunable selectivity and enhanced antifouling property. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 12213	13	50
67	Polar polymer membranes via thermally induced phase separation using a universal crystallizable diluent. <i>Journal of Membrane Science</i> , 2013 , 446, 482-491	9.6	47
66	Glycosylation of the polypropylene membrane surface via thiol-yne click chemistry for lectin adsorption. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 110, 105-12	6	15
65	Polymer fibers with hierarchically porous structure: combination of high temperature electrospinning and thermally induced phase separation. <i>RSC Advances</i> , 2013 , 3, 13851	3.7	21
64	Glycosylation of Polyphosphazene Nanofibrous Membrane by Click Chemistry for Protein Recognition. <i>Macromolecular Chemistry and Physics</i> , 2013 , 214, 1852-1858	2.6	11
63	Centimeter-scale giant spherulites in mixtures of polar polymers and crystallizable diluents: Morphology, structure, formation and application. <i>RSC Advances</i> , 2013 , 3, 17105	3.7	9
62	Mineralized polyacrylonitrile-based ultrafiltration membranes with improved water flux and rejection towards dye. <i>Journal of Membrane Science</i> , 2013 , 441, 112-119	9.6	37
61	Polyacrylonitrile membranes via thermally induced phase separation: Effects of polyethylene glycol with different molecular weights. <i>Journal of Membrane Science</i> , 2013 , 437, 227-236	9.6	48
60	Simulation of electrical field for the formation mechanism of Bird's Nest patterned structures by electrospinning. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2013 , 31, 514-520	3.5	4
59	Polydopamine gradients by oxygen diffusion controlled autoxidation. <i>Chemical Communications</i> , 2013 , 49, 10522-4	5.8	85
58	Thermally induced phase separation of poly(vinylidene fluoride)/diluent systems: Optical microscope and infrared spectroscopy studies. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013 , 51, 1438-1447	2.6	24
57	Mineral-coated polymer membranes with superhydrophilicity and underwater superoleophobicity for effective oil/water separation. <i>Scientific Reports</i> , 2013 , 3, 2776	4.9	265
56	Surface functionalization of cross-linked polystyrene microspheres via thiol-ene click reaction and assembly in honeycomb films for lectin recognition. <i>Journal of Materials Research</i> , 2013 , 28, 642-650	2.5	14
55	Structure and performance of polyacrylonitrile membranes prepared via thermally induced phase separation. <i>Journal of Membrane Science</i> , 2012 , 409-410, 355-364	9.6	92

54	Nanofibrous mats with bird's nest patterns by electrospinning. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2012 , 30, 130-137	3.5	17
53	Patterned biocatalytic films via one-step self-assembly. <i>Chemical Communications</i> , 2012 , 48, 4417-9	5.8	47
52	Bio-inspired CaCO ₃ coating for superhydrophilic hybrid membranes with high water permeability. <i>Journal of Materials Chemistry</i> , 2012 , 22, 22727		60
51	Ordered microporous membranes templated by breath figures for size-selective separation. <i>Journal of the American Chemical Society</i> , 2012 , 134, 95-8	16.4	179
50	A versatile approach to the synthesis of polyphosphazene derivatives via the thiol-yne reaction. <i>Journal of Polymer Science Part A</i> , 2012 , 50, 5170-5176	2.5	12
49	Controllable glycosylation of polyphosphazene via radical thiol-yne click chemistry. <i>Journal of Polymer Science Part A</i> , 2012 , 50, 3149-3157	2.5	19
48	Effect of a spacer on phthalocyanine functionalized cellulose nanofiber mats for decolorizing reactive dye wastewater. <i>Cellulose</i> , 2012 , 19, 1351-1359	5.5	27
47	Graft polymerization of 2-hydroxyethyl methacrylate via ATRP with poly(acrylonitrile-co-p-chloromethyl styrene) as a macroinitiator. <i>Science China Chemistry</i> , 2012 , 55, 1125-1133 ³	7.9	3
46	Functionalization of cellulose nanofiber mats with phthalocyanine for decoloration of reactive dye wastewater. <i>Cellulose</i> , 2011 , 18, 1295-1303	5.5	43
45	Immobilization of lipase onto cellulose ultrafine fiber membrane for oil hydrolysis in high performance bioreactor. <i>Cellulose</i> , 2011 , 18, 1563-1571	5.5	28
44	Membrane surface with antibacterial property by grafting polycation. <i>Journal of Membrane Science</i> , 2011 , 376, 132-141	9.6	77
43	"Click Chemistry" as a Facile Approach to the Synthesis of Polyphosphazene Glycopolymers. <i>Macromolecular Chemistry and Physics</i> , 2011 , 212, 272-277	2.6	23
42	Surface characteristics of poly(alkyl β -glutamate)s with different alkyl groups. <i>Journal of Applied Polymer Science</i> , 2011 , 120, 1679-1684	2.9	
41	Macroporous, protein-containing films cast from water-in-oil emulsions featuring a block-copolymer. <i>Soft Matter</i> , 2011 , 7, 4221	3.6	15
40	Surface glycosylation of polymer membrane by thiol-yne click chemistry for affinity adsorption of lectin. <i>Chemical Communications</i> , 2011 , 47, 3930-2	5.8	47
39	Carbohydrate decoration of microporous polypropylene membranes for lectin affinity adsorption: comparison of mono- and disaccharides. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011 , 85, 19-25	6	16
38	Polyacrylonitrile-based nanofibrous membrane with glycosylated surface for lectin affinity adsorption. <i>Journal of Membrane Science</i> , 2011 , 366, 272-277	9.6	40
37	Surface Engineering of Microporous Polypropylene Membrane for Antifouling: A Mini-Review. <i>Journal of Adhesion Science and Technology</i> , 2011 , 25, 245-260	2	27

36	Biogenic Polyelectrolyte Multilayers on Poly(L-lactide) Films for Control of Osteoblast Adhesion. <i>Macromolecular Symposia</i> , 2010 , 294, 133-143	0.8	1
35	Tunable assembly of nanoparticles on patterned porous film. <i>Langmuir</i> , 2010 , 26, 15982-8	4	62
34	Thermo-responsive stick-slip behavior of advancing water contact angle on the surfaces of poly(N-isopropylacrylamide)-grafted polypropylene membranes. <i>Science China Chemistry</i> , 2010 , 53, 183-189	7.9	8
33	Surface hydrophilization of microporous polypropylene membrane by grafting zwitterionic polymer for anti-biofouling. <i>Journal of Membrane Science</i> , 2010 , 362, 255-264	9.6	239
32	Multilayer adsorption of lectins on glycosylated microporous polypropylene membranes. <i>Journal of Membrane Science</i> , 2009 , 335, 111-117	9.6	21
31	Honeycomb-patterned films of polystyrene/poly(ethylene glycol): preparation, surface aggregation and protein adsorption. <i>Science in China Series B: Chemistry</i> , 2009 , 52, 969-974		21
30	Surface modification of acrylate intraocular lenses with dielectric barrier discharge plasma at atmospheric pressure. <i>Science in China Series B: Chemistry</i> , 2009 , 52, 1235-1243		5
29	Linear and comb-like acrylonitrile/N-isopropylacrylamide copolymers synthesized by the combination of RAFT polymerization and ATRP. <i>Journal of Polymer Science Part A</i> , 2009 , 47, 92-102	2.5	22
28	Surface hydrophilization for polypropylene microporous membranes: A facile interfacial crosslinking approach. <i>Journal of Membrane Science</i> , 2009 , 326, 372-381	9.6	60
27	Surface hydrophilization of microporous polypropylene membrane by the interfacial crosslinking of polyethylenimine. <i>Journal of Membrane Science</i> , 2009 , 337, 70-80	9.6	73
26	Surface engineering of macroporous polypropylene membranes. <i>Soft Matter</i> , 2009 , 5, 1775	3.6	66
25	Immobilization of catalase on electrospun nanofibrous membranes modified with bovine serum albumin or collagen: Coupling site-dependent activity and protein-dependent stability. <i>Soft Matter</i> , 2009 , 5, 4161	3.6	20
24	Fabrication of glycosylated surfaces on microporous polypropylene membranes for protein recognition and adsorption. <i>Journal of Materials Chemistry</i> , 2008 , 18, 4663		20
23	Novel Porphyrinated Polyimide Nanofibers by Electrospinning. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 10609-10615	3.8	32
22	Surface glycosylation of polymeric membranes. <i>Science in China Series B: Chemistry</i> , 2008 , 51, 901-910		9
21	Dielectric property of polyimide/barium titanate composites and its influence factors (II). <i>Frontiers of Chemical Engineering in China</i> , 2008 , 2, 417-421		2
20	Catalase Immobilization on Electrospun Nanofibers: Effects of Porphyrin Pendants and Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 14091-14097	3.8	47
19	Construction of Glycosylated Surfaces for Poly(propylene) Beads with a Photoinduced Grafting/Chemical Reaction Sequence. <i>Macromolecular Rapid Communications</i> , 2007 , 28, 2325-2331	4.8	13

18	Construction of a comb-like glycosylated membrane surface by a combination of UV-induced graft polymerization and surface-initiated ATRP. <i>Langmuir</i> , 2007 , 23, 6684-90	4	92
17	Nanofibrous Membranes Containing Carbon Nanotubes: Electrospun for Redox Enzyme Immobilization. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 516-521	4.8	64
16	Electrospun Nanofibers Modified with Phospholipid Moieties for Enzyme Immobilization. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 1341-1345	4.8	69
15	Porphyriated Nanofibers via Copolymerization and Electrospinning. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 1533-1538	4.8	32
14	Nanofibrous Sugar Sticks Electrospun from Glycopolymers for Protein Separation via Molecular Recognition. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 1942-1948	4.8	31
13	Fabrication of glycosylated surface on polymer membrane by UV-induced graft polymerization for lectin recognition. <i>Langmuir</i> , 2006 , 22, 9345-9	4	68
12	Improvement of the antifouling characteristics for polypropylene microporous membranes by the sequential photoinduced graft polymerization of acrylic acid. <i>Journal of Membrane Science</i> , 2006 , 281, 658-665	9.6	96
11	Surface modification of polypropylene microporous membranes to improve their antifouling property in MBR: NH plasma treatment. <i>Separation and Purification Technology</i> , 2005 , 45, 8-15	8.3	131
10	Surface modification of poly(acrylonitrile-co-maleic acid) membranes by the immobilization of poly(ethylene glycol). <i>Journal of Membrane Science</i> , 2004 , 235, 147-155	9.6	43
9	Covalent attachment of phospholipid analogous polymers to modify a polymeric membrane surface: a novel approach. <i>Langmuir</i> , 2004 , 20, 1481-8	4	66
8	Acrylonitrile-Based Copolymer Membranes Containing Reactive Groups: Surface Modification by the Immobilization of Poly(ethylene glycol) for Improving Antifouling Property and Biocompatibility. <i>Langmuir</i> , 2003 , 19, 9889-9895	4	106
7	Photoconductivity of Copolyimide Films Containing Tetraphenylporphyrin and Carbazole Moieties. <i>Chemistry of Materials</i> , 1998 , 10, 1350-1354	9.6	11
6	Copolymerization of propene with high-1-olefin using a MgCl ₂ /TiCl ₄ catalyst. <i>Makromolekulare Chemie Macromolecular Symposia</i> , 1992 , 63, 233-243		9
5	Copolymerization of propene with 1-alkenes using a MgCl ₂ /TiCl ₄ catalyst. <i>Die Makromolekulare Chemie</i> , 1991 , 192, 1835-1840		10
4	Ethylene/propene copolymerization with a TiCl ₃ catalyst: Effects of prepolymerization. <i>Die Makromolekulare Chemie Rapid Communications</i> , 1990 , 11, 79-81		13
3	¹³ C NMR study of monomer composition and sequence distribution in ethylene/propylene/1-octene terpolymers. <i>Die Makromolekulare Chemie</i> , 1988 , 189, 1133-1140		3
2	Visualizing and monitoring interfacial polymerization by aggregation-induced emission. <i>Polymer Chemistry</i> ,	4.9	5
1	Endogenous Ionic-Liquid-Infused Coatings by Phase Separation for Anti-Icing and Anti-Bacterial Applications. <i>Advanced Materials Interfaces</i> , 2102570	4.6	

