

Zhi-Kang Xu

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251
papers

11,506
citations

62
h-index

97
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265
ext. papers

13,768
ext. citations

7.4
avg, IF

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L-index

#	Paper	IF	Citations
251	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
250	Surface engineering of polymer membranes via mussel-inspired chemistry. <i>Journal of Membrane Science</i> , 2015 , 483, 42-59	9.6	301
249	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
248	Janus Membranes: Exploring Duality for Advanced Separation. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 13398-13407	16.4	284
247	Mineral-coated polymer membranes with superhydrophilicity and underwater superoleophobicity for effective oil/water separation. <i>Scientific Reports</i> , 2013 , 3, 2776	4.9	265
246	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
245	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
244	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
243	Nanofiltration membranes with cellulose nanocrystals as an interlayer for unprecedented performance. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 16289-16295	13	197
242	Ultrathin metal/covalent-organic framework membranes towards ultimate separation. <i>Chemical Society Reviews</i> , 2019 , 48, 3811-3841	58.5	182
241	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
240	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
239	Dopamine: Just the Right Medicine for Membranes. <i>Advanced Functional Materials</i> , 2018 , 28, 1705327	15.6	176
238	Nanomaterials with a photothermal effect for antibacterial activities: an overview. <i>Nanoscale</i> , 2019 , 11, 8680-8691	7.7	174
237	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
236	Photocatalytic Nanofiltration Membranes with Self-Cleaning Property for Wastewater Treatment. <i>Advanced Functional Materials</i> , 2017 , 27, 1700251	15.6	162
235	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

234	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
233	Co-deposition of catechol/polyethyleneimine on porous membranes for efficient decolorization of dye water. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 14438-14444	13	128
232	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
231	Multiple interfaces in self-assembled breath figures. <i>Chemical Communications</i> , 2014 , 50, 4024-39	5.8	123
230	Surface and interface engineering for organic/inorganic composite membranes. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 9716-9729	13	118
229	Polydopamine-Coated Porous Substrates as a Platform for Mineralized FeOOH Nanorods with Photocatalysis under Sunlight. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 11567-74	9.5	108
228	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
227	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
226	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
225	Nanofiltration Membrane with a Mussel-Inspired Interlayer for Improved Permeation Performance. <i>Langmuir</i> , 2017 , 33, 2318-2324	4	104
224	Harnessing Solar-Driven Photothermal Effect toward the Water-Energy Nexus. <i>Advanced Science</i> , 2019 , 6, 1900883	13.6	104
223	Janus Membranes with Asymmetric Wettability for Fine Bubble Aeration. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500774	4.6	101
222	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
221	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
220	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
219	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
218	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
217	CuSO/HO-Triggered Polydopamine/Poly(sulfobetaine methacrylate) Coatings for Antifouling Membrane Surfaces. <i>Langmuir</i> , 2017 , 33, 1210-1216	4	90

216	Deposition and Adhesion of Polydopamine on the Surfaces of Varying Wettability. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 30943-30950	9.5	88
215	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
214	Polydopamine gradients by oxygen diffusion controlled autoxidation. <i>Chemical Communications</i> , 2013 , 49, 10522-4	5.8	85
213	Polydopamine Coatings with Nanopores for Versatile Molecular Separation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 14437-14444	9.5	84
212	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
211	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
210	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
209	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
208	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
207	Membrane surface with antibacterial property by grafting polycation. <i>Journal of Membrane Science</i> , 2011 , 376, 132-141	9.6	77
206	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
205	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
204	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
203	Novel nanofiltration membrane with ultrathin zirconia film as selective layer. <i>Journal of Membrane Science</i> , 2016 , 500, 265-271	9.6	72
202	Advanced functional polymer materials. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 1803-1915	7.8	70
201	Composite free-standing films of polydopamine/polyethylenimine grown at the air/water interface. <i>RSC Advances</i> , 2014 , 4, 45415-45418	3.7	70
200	Electrospun Nanofibers Modified with Phospholipid Moieties for Enzyme Immobilization. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 1341-1345	4.8	69
199	Fabrication of glycosylated surface on polymer membrane by UV-induced graft polymerization for lectin recognition. <i>Langmuir</i> , 2006 , 22, 9345-9	4	68

198	Nanocomposite membranes of polydopamine/electropositive nanoparticles/polyethyleneimine for nanofiltration. <i>Journal of Membrane Science</i> , 2018 , 545, 99-106	9.6	66
197	Surface engineering of macroporous polypropylene membranes. <i>Soft Matter</i> , 2009 , 5, 1775	3.6	66
196	Covalent attachment of phospholipid analogous polymers to modify a polymeric membrane surface: a novel approach. <i>Langmuir</i> , 2004 , 20, 1481-8	4	66
195	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
194	Nanofibrous Membranes Containing Carbon Nanotubes: Electrospun for Redox Enzyme Immobilization. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 516-521	4.8	64
193	Forward osmosis membranes with unprecedented water flux. <i>Journal of Membrane Science</i> , 2017 , 529, 47-54	9.6	63
192	PVDF/PAN blend separators via thermally induced phase separation for lithium ion batteries. <i>Polymer</i> , 2016 , 107, 54-60	3.9	63
191	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
190	Robust Coatings via Catechol-Amine Codeposition: Mechanism, Kinetics, and Application. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 5902-5908	9.5	62
189	Tunable assembly of nanoparticles on patterned porous film. <i>Langmuir</i> , 2010 , 26, 15982-8	4	62
188	Enzyme-triggered coatings of tea catechins/chitosan for nanofiltration membranes with high performance. <i>Green Chemistry</i> , 2016 , 18, 6205-6208	10	62
187	Bio-inspired CaCO ₃ coating for superhydrophilic hybrid membranes with high water permeability. <i>Journal of Materials Chemistry</i> , 2012 , 22, 22727		60
186	Surface hydrophilization for polypropylene microporous membranes: A facile interfacial crosslinking approach. <i>Journal of Membrane Science</i> , 2009 , 326, 372-381	9.6	60
185	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
184	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
183	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
182	Nanocomposite membranes embedded with functionalized MoS ₂ nanosheets for enhanced interfacial compatibility and nanofiltration performance. <i>Journal of Membrane Science</i> , 2019 , 591, 117318	9.6	54
181	Co-deposition Kinetics of Polydopamine/Polyethyleneimine Coatings: Effects of Solution Composition and Substrate Surface. <i>Langmuir</i> , 2018 , 34, 13123-13131	4	52

180	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
179	Nanofiltration membranes with narrowed pore size distribution via pore wall modification. <i>Chemical Communications</i> , 2016 , 52, 8589-92	5.8	49
178	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
177	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
176	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
175	Patterned biocatalytic films via one-step self-assembly. <i>Chemical Communications</i> , 2012 , 48, 4417-9	5.8	47
174	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
173	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
172	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
171	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
170	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
169	Functionalization of cellulose nanofiber mats with phthalocyanine for decoloration of reactive dye wastewater. <i>Cellulose</i> , 2011 , 18, 1295-1303	5.5	43
168	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
167	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
166	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
165	Polymer membrane with a mineral coating for enhanced curling resistance and surface wettability. <i>Chemical Communications</i> , 2015 , 51, 12779-82	5.8	41
164	Poly(vinylidene fluoride) ultrafiltration membranes containing hybrid silica nanoparticles: Preparation, characterization and performance. <i>Polymer</i> , 2014 , 55, 1333-1340	3.9	40
163	Polyacrylonitrile-based nanofibrous membrane with glycosylated surface for lectin affinity adsorption. <i>Journal of Membrane Science</i> , 2011 , 366, 272-277	9.6	40

162	Composite nanofiltration membranes via the co-deposition and cross-linking of catechol/polyethylenimine. <i>RSC Advances</i> , 2016 , 6, 34096-34102	3.7	40
161	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
160	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
159	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
158	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
157	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
156	Bioinspired Block Copolymer for Mineralized Nanoporous Membrane. <i>ACS Nano</i> , 2018 , 12, 11471-11480	16.7	33
155	Asymmetric Surface Engineering for Janus Membranes. <i>Advanced Materials Interfaces</i> , 2020 , 7, 1902064	4.6	32
154	Antimicrobial membrane surfaces via efficient polyethyleneimine immobilization and cationization. <i>Applied Surface Science</i> , 2017 , 426, 972-979	6.7	32
153	Novel Porphyrinated Polyimide Nanofibers by Electrospinning. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 10609-10615	3.8	32
152	Porphyrinated Nanofibers via Copolymerization and Electrospinning. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 1533-1538	4.8	32
151	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
150	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
149	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
148	Nanofibrous Sugar Sticks Electrospun from Glycopolymers for Protein Separation via Molecular Recognition. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 1942-1948	4.8	31
147	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
146	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
145	Porphyrinated polyimide honeycomb films with high thermal stability for HCl gas sensing. <i>RSC Advances</i> , 2015 , 5, 30472-30477	3.7	30

144	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
143	Ultrathin Alginate Coatings as Selective Layers for Nanofiltration Membranes with High Performance. <i>ChemSusChem</i> , 2017 , 10, 2788-2795	8.3	28
142	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
141	Bioinspired Polydopamine/Polyzwitterion Coatings for Underwater Anti-Oil and -Freezing Surfaces. <i>Langmuir</i> , 2019 , 35, 1895-1901	4	28
140	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
139	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
138	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
137	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
136	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
135	Polyamide nanofilms with linearly-tunable thickness for high performance nanofiltration. <i>Journal of Membrane Science</i> , 2021 , 627, 119142	9.6	27
134	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
133	Water-Salt Oligomers Enable Supersoluble Electrolytes for High-Performance Aqueous Batteries. <i>Advanced Materials</i> , 2021 , 33, e2007470	24	25
132	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
131	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
130	Underwater superoleophobic meshes fabricated by poly(sulfobetaine)/polydopamine co-deposition. <i>RSC Advances</i> , 2015 , 5, 47592-47598	3.7	24
129	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
128	Surface Deposition of Juglone/Fe on Microporous Membranes for Oil/Water Separation and Dye Adsorption. <i>Langmuir</i> , 2019 , 35, 3643-3650	4	24
127	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

126	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
125	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
124	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
123	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
122	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
121	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
120	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
119	Multilayer adsorption of lectins on glycosylated microporous polypropylene membranes. <i>Journal of Membrane Science</i> , 2009 , 335, 111-117	9.6	21
118	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
117	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
116	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
115	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
114	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
113	Fabrication of glycosylated surfaces on microporous polypropylene membranes for protein recognition and adsorption. <i>Journal of Materials Chemistry</i> , 2008 , 18, 4663		20
112	Controllable glycosylation of polyphosphazene via radical thiol-ene click chemistry. <i>Journal of Polymer Science Part A</i> , 2012 , 50, 3149-3157	2.5	19
111	Janus Poly(Vinylidene Fluoride) Membranes with Penetrative Pores for Photothermal Desalination. <i>Research</i> , 2020 , 2020, 3241758	7.8	19
110	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
109	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

108	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
107	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
106	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
105	Effects of molecular weight distribution on the self-assembly of end-functionalized polystyrenes. <i>Polymer Chemistry</i> , 2017 , 8, 4290-4298	4.9	18
104	Ceramic membrane with protein-resistant surface via dopamine/diglycolamine co-deposition. <i>Separation and Purification Technology</i> , 2020 , 234, 116135	8.3	18
103	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
102	Engineered Coatings via the Assembly of Amino-Quinone Networks. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 2346-2354	16.4	18
101	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
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