

Liang-Yin Chu

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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.

225
papers

9,159
citations

50
h-index

88
g-index

248
ext. papers

10,515
ext. citations

7.6
avg, IF

6.16
L-index

#	Paper	IF	Citations
225	Controllable monodisperse multiple emulsions. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 8970-4	16.4	552
224	Designer emulsions using microfluidics. <i>Materials Today</i> , 2008 , 11, 18-27	21.8	544
223	Nano-structured smart hydrogels with rapid response and high elasticity. <i>Nature Communications</i> , 2013 , 4, 2226	17.4	447
222	Poly(N-isopropylacrylamide)-Clay Nanocomposite Hydrogels with Responsive Bending Property as Temperature-Controlled Manipulators. <i>Advanced Functional Materials</i> , 2015 , 25, 2980-2991	15.6	251
221	Stimuli-responsive smart gating membranes. <i>Chemical Society Reviews</i> , 2016 , 45, 460-75	58.5	236
220	Functional polymeric microparticles engineered from controllable microfluidic emulsions. <i>Accounts of Chemical Research</i> , 2014 , 47, 373-84	24.3	186
219	Novel heavy-metal adsorption material: ion-recognition P(NIPAM-co-BCAm) hydrogels for removal of lead(II) ions. <i>Journal of Hazardous Materials</i> , 2009 , 167, 114-8	12.8	175
218	Preparation of thermo-responsive core-shell microcapsules with a porous membrane and poly(N-isopropylacrylamide) gates. <i>Journal of Membrane Science</i> , 2001 , 192, 27-39	9.6	172
217	Controllable microfluidic production of multicomponent multiple emulsions. <i>Lab on A Chip</i> , 2011 , 11, 1587-92	7.2	171
216	Fabrication of monodisperse thermosensitive microgels and gel capsules in microfluidic devices. <i>Soft Matter</i> , 2008 , 4, 2303	3.6	159
215	Reduced Graphene Oxide-Containing Smart Hydrogels with Excellent Electro-Response and Mechanical Properties for Soft Actuators. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 15758-15767	9.5	154
214	Near-Infrared Light-Responsive Poly(N-isopropylacrylamide)/Graphene Oxide Nanocomposite Hydrogels with Ultrahigh Tensibility. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 27289-98	9.5	148
213	Control of pore size and permeability of a glucose-responsive gating membrane for insulin delivery. <i>Journal of Controlled Release</i> , 2004 , 97, 43-53	11.7	141
212	Monodisperse core-shell chitosan microcapsules for pH-responsive burst release of hydrophobic drugs. <i>Soft Matter</i> , 2011 , 7, 4821	3.6	129
211	Negatively thermoresponsive membranes with functional gates driven by zipper-type hydrogen-bonding interactions. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 2124-7	16.4	125
210	Multi-Stimuli-Responsive Microcapsules for Adjustable Controlled-Release. <i>Advanced Functional Materials</i> , 2014 , 24, 3312-3323	15.6	115
209	Smart thermo-triggered squirting capsules for nanoparticle delivery. <i>Soft Matter</i> , 2010 , 6, 3759	3.6	108

208	Hole-shell microparticles from controllably evolved double emulsions. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8084-7	16.4	107
207	Graphene Oxide Membranes with Strong Stability in Aqueous Solutions and Controllable Lamellar Spacing. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15557-66	9.5	107
206	Preparation of thermo-responsive gating membranes with controllable response temperature. <i>Journal of Membrane Science</i> , 2007 , 289, 76-85	9.6	102
205	Preparation of monodisperse calcium alginate microcapsules via internal gelation in microfluidic-generated double emulsions. <i>Journal of Colloid and Interface Science</i> , 2013 , 404, 85-90	9.3	91
204	Controllable Monodisperse Multiple Emulsions. <i>Angewandte Chemie</i> , 2007 , 119, 9128-9132	3.6	89
203	Thermo-responsive gating membranes with controllable length and density of poly(N-isopropylacrylamide) chains grafted by ATRP method. <i>Journal of Membrane Science</i> , 2009 , 337, 310-317	9.6	88
202	Core-Shell Chitosan Microcapsules for Programmed Sequential Drug Release. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 10524-34	9.5	86
201	A Thermoresponsive Membrane for Chiral Resolution. <i>Advanced Functional Materials</i> , 2008 , 18, 652-663	15.6	84
200	Smart Hydrogels with Inhomogeneous Structures Assembled Using Nanoclay-Cross-Linked Hydrogel Subunits as Building Blocks. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 21721-30	9.5	82
199	Hydrogel Walkers with Electro-Driven Motility for Cargo Transport. <i>Scientific Reports</i> , 2015 , 5, 13622	4.9	81
198	Microfluidic Fabrication of Bio-Inspired Microfibers with Controllable Magnetic Spindle-Knots for 3D Assembly and Water Collection. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 17471-81	9.5	76
197	Thermoresponsive Gating Characteristics of Poly(N-isopropylacrylamide)-Grafted Porous Poly(vinylidene fluoride) Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 2643-2649	3.9	76
196	Microfluidic fabrication of monodisperse microcapsules for glucose-response at physiological temperature. <i>Soft Matter</i> , 2013 , 9, 4150	3.6	74
195	Study of SPG membrane emulsification processes for the preparation of monodisperse core-shell microcapsules. <i>Journal of Colloid and Interface Science</i> , 2003 , 265, 187-96	9.3	73
194	pH-responsive poly(ether sulfone) composite membranes blended with amphiphilic polystyrene-block-poly(acrylic acid) copolymers. <i>Journal of Membrane Science</i> , 2014 , 450, 162-173	9.6	72
193	Preparation of glucose-sensitive microcapsules with a porous membrane and functional gates. <i>Colloids and Surfaces B: Biointerfaces</i> , 2004 , 37, 9-14	6	71
192	Dual thermo-responsive and ion-recognizable monodisperse microspheres. <i>Polymer</i> , 2009 , 50, 922-929	3.9	70
191	Preparation and enantiomer separation characteristics of chitosan/β-cyclodextrin composite membranes. <i>Journal of Membrane Science</i> , 2007 , 297, 262-270	9.6	67

190	Graphene-based membranes with uniform 2D nanochannels for precise sieving of mono-/multi-valent metal ions. <i>Journal of Membrane Science</i> , 2018 , 550, 208-218	9.6	65
189	Ion-recognizable hydrogels for efficient removal of cesium ions from aqueous environment. <i>Journal of Hazardous Materials</i> , 2017 , 323, 632-640	12.8	65
188	Positively K ⁺ -Responsive Membranes with Functional Gates Driven by Host-Guest Molecular Recognition. <i>Advanced Functional Materials</i> , 2012 , 22, 4742-4750	15.6	64
187	Novel intestinal-targeted Ca-alginate-based carrier for pH-responsive protection and release of lactic acid bacteria. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 5962-70	9.5	59
186	Gating membranes for water treatment: detection and removal of trace Pb ²⁺ ions based on molecular recognition and polymer phase transition. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 9659	13	59
185	A novel thermo-induced self-bursting microcapsule with magnetic-targeting property. <i>ChemPhysChem</i> , 2009 , 10, 2405-9	3.2	59
184	Wetting-induced formation of controllable monodisperse multiple emulsions in microfluidics. <i>Lab on A Chip</i> , 2013 , 13, 4047-52	7.2	58
183	Trojan-Horse-Like Stimuli-Responsive Microcapsules. <i>Advanced Science</i> , 2018 , 5, 1700960	13.6	57
182	Thermo-responsive monodisperse core-shell microspheres with PNIPAM core and biocompatible porous ethyl cellulose shell embedded with PNIPAM gates. <i>Journal of Colloid and Interface Science</i> , 2012 , 376, 97-106	9.3	57
181	A novel smart microsphere with magnetic core and ion-recognizable shell for Pb ²⁺ adsorption and separation. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 9530-42	9.5	56
180	Graft-type poly(N-isopropylacrylamide-co-acrylic acid) microgels exhibiting rapid thermo- and pH-responsive properties. <i>Polymer</i> , 2008 , 49, 2595-2603	3.9	55
179	Stimuli-responsive gating membranes responding to temperature, pH, salt concentration and anion species. <i>Journal of Membrane Science</i> , 2013 , 442, 206-215	9.6	53
178	A thermo-responsive affinity membrane with nano-structured pores and grafted poly(N-isopropylacrylamide) surface layer for hydrophobic adsorption. <i>Journal of Membrane Science</i> , 2010 , 349, 258-267	9.6	52
177	Poly(N-isopropylacrylamide)-based comb-type grafted hydrogel with rapid response to blood glucose concentration change at physiological temperature. <i>Polymers for Advanced Technologies</i> , 2008 , 19, 937-943	3.2	52
176	Biotin-conjugated block copolymeric nanoparticles as tumor-targeted drug delivery systems. <i>Macromolecular Research</i> , 2007 , 15, 646-655	1.9	51
175	Ethanol-responsive characteristics of polyethersulfone composite membranes blended with poly(N-isopropylacrylamide) nanogels. <i>Journal of Applied Polymer Science</i> , 2014 , 131,	2.9	50
174	K(+)-recognition capsules with squirting release mechanisms. <i>Chemical Communications</i> , 2011 , 47, 12283-5	5.8	49
173	Microfluidic fabrication of chitosan microfibers with controllable internals from tubular to peapod-like structures. <i>RSC Advances</i> , 2015 , 5, 928-936	3.7	46

172	Responsive hydrogels with poly(N-isopropylacrylamide-co-acrylic acid) colloidal spheres as building blocks. <i>Journal of Colloid and Interface Science</i> , 2010 , 349, 106-13	9.3	44
171	A Smart Polymer with Ion-Induced Negative Shift of the Lower Critical Solution Temperature for Phase Transition. <i>Macromolecular Rapid Communications</i> , 2008 , 29, 27-32	4.8	44
170	Controllable microfluidic strategies for fabricating microparticles using emulsions as templates. <i>Particuology</i> , 2016 , 24, 18-31	2.8	43
169	Uniform Microparticles with Controllable Highly Interconnected Hierarchical Porous Structures. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 13758-67	9.5	43
168	Facile immobilization of Ag nanoparticles on microchannel walls in microreactors for catalytic applications. <i>Chemical Engineering Journal</i> , 2017 , 309, 691-699	14.7	43
167	Smart responsive microcapsules capable of recognizing heavy metal ions. <i>Journal of Colloid and Interface Science</i> , 2010 , 349, 512-8	9.3	43
166	Preparation of high strength poly(vinylidene fluoride) porous membranes with cellular structure via vapor-induced phase separation. <i>Journal of Membrane Science</i> , 2018 , 549, 151-164	9.6	43
165	Fabrication of glass-based microfluidic devices with dry film photoresists as pattern transfer masks for wet etching. <i>RSC Advances</i> , 2015 , 5, 5638-5646	3.7	42
164	Novel Biocompatible Thermoresponsive Poly(N-vinyl Caprolactam)/Clay Nanocomposite Hydrogels with Macroporous Structure and Improved Mechanical Characteristics. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 21979-21990	9.5	41
163	Insights into the effects of 2:1 "sandwich-type" crown-ether/metal-ion complexes in responsive host-guest systems. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 1696-705	3.4	41
162	Microfluidic generation of hollow Ca-alginate microfibers. <i>Lab on A Chip</i> , 2016 , 16, 2673-81	7.2	41
161	Comprehensive effects of metal ions on responsive characteristics of P(NIPAM-co-B18C6Am). <i>Journal of Physical Chemistry B</i> , 2012 , 116, 5527-36	3.4	41
160	Novel cationic pH-responsive poly(N,N-dimethylaminoethyl methacrylate) microcapsules prepared by a microfluidic technique. <i>Journal of Colloid and Interface Science</i> , 2011 , 357, 101-8	9.3	41
159	Effects of internal microstructures of poly(N-isopropylacrylamide) hydrogels on thermo-responsive volume phase-transition and controlled-release characteristics. <i>Smart Materials and Structures</i> , 2006 , 15, 1767-1774	3.4	41
158	Designable Polymeric Microparticles from Droplet Microfluidics for Controlled Drug Release. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800687	6.8	41
157	Monodisperse and fast-responsive poly(N-isopropylacrylamide) microgels with open-celled porous structure. <i>Langmuir</i> , 2014 , 30, 1455-64	4	40
156	Novel calcium-alginate capsules with aqueous core and thermo-responsive membrane. <i>Journal of Colloid and Interface Science</i> , 2011 , 353, 61-8	9.3	40
155	Gating characteristics of thermo-responsive and molecular-recognizable membranes based on poly(N-isopropylacrylamide) and β -cyclodextrin. <i>Journal of Membrane Science</i> , 2010 , 355, 142-150	9.6	40

154	Complex self-assembly of pyrimido[4,5-d]pyrimidine nucleoside supramolecular structures. <i>Nature Communications</i> , 2014 , 5, 3108	17.4	39
153	Surface Modification of Ceramic-Supported Polyethersulfone Membranes by Interfacial Polymerization for Reduced Membrane Fouling. <i>Macromolecular Chemistry and Physics</i> , 2005 , 206, 1934-1940	2.6	39
152	Controllable Multicompartmental Capsules with Distinct Cores and Shells for Synergistic Release. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 8743-54	9.5	37
151	Fabrication of nanofibers with phase-change core and hydrophobic shell, via coaxial electrospinning using nontoxic solvent. <i>Journal of Materials Science</i> , 2015 , 50, 5729-5738	4.3	37
150	Self-Assembling Monomeric Nucleoside Molecular Nanoparticles Loaded with 5-FU Enhancing Therapeutic Efficacy against Oral Cancer. <i>ACS Nano</i> , 2015 , 9, 9638-51	16.7	36
149	Nanocomposite smart hydrogels with improved responsiveness and mechanical properties: A mini review. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018 , 56, 1306-1313	2.6	36
148	Ultrasensitive microchip based on smart microgel for real-time online detection of trace threat analytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 2023-8	11.5	34
147	Smart gating membranes with in situ self-assembled responsive nanogels as functional gates. <i>Scientific Reports</i> , 2015 , 5, 14708	4.9	34
146	Thermosensitive Affinity Behavior of Poly(N-isopropylacrylamide) Hydrogels with β -Cyclodextrin Moieties. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 1511-1518	3.9	34
145	A novel ion-imprinted hydrogel for recognition of potassium ions with rapid response. <i>Polymers for Advanced Technologies</i> , 2010 , 22, n/a-n/a	3.2	33
144	β -Cyclodextrin-modified graphene oxide membranes with large adsorption capacity and high flux for efficient removal of bisphenol A from water. <i>Journal of Membrane Science</i> , 2020 , 595, 117510	9.6	33
143	Molecular-Recognition-Induced Phase Transitions of Two Thermo-Responsive Polymers with Pendent β -Cyclodextrin Groups. <i>Macromolecular Chemistry and Physics</i> , 2008 , 209, 204-211	2.6	32
142	Plug-n-play microfluidic systems from flexible assembly of glass-based flow-control modules. <i>Lab on A Chip</i> , 2015 , 15, 1869-78	7.2	31
141	Effect of freeze-drying and rehydrating treatment on the thermo-responsive characteristics of poly(N-isopropylacrylamide) microspheres. <i>Colloid and Polymer Science</i> , 2008 , 286, 571-577	2.4	31
140	Facile Fabrication of Composite Membranes with Dual Thermo- and pH-Responsive Characteristics. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 14409-14421	9.5	30
139	Effects of fabrication conditions on the microstructures and performances of smart gating membranes with in situ assembled nanogels as gates. <i>Journal of Membrane Science</i> , 2016 , 519, 32-44	9.6	30
138	Alginate/protamine/silica hybrid capsules with ultrathin membranes for laccase immobilization. <i>AIChE Journal</i> , 2013 , 59, 380-389	3.6	29
137	A novel surgery-like strategy for droplet coalescence in microchannels. <i>Lab on A Chip</i> , 2013 , 13, 3653-7	7.2	29

136	Microfluidic approach for encapsulation via double emulsions. <i>Current Opinion in Pharmacology</i> , 2014 , 18, 35-41	5.1	29
135	Nano-structure construction of porous membranes by depositing nanoparticles for enhanced surface wettability. <i>Journal of Membrane Science</i> , 2013 , 427, 63-72	9.6	29
134	Simple and Continuous Fabrication of Self-Propelled Micromotors with Photocatalytic Metal-Organic Frameworks for Enhanced Synergistic Environmental Remediation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 35120-35131	9.5	29
133	PVDF blended PVDF-g-PMAA pH-responsive membrane: Effect of additives and solvents on membrane properties and performance. <i>Journal of Membrane Science</i> , 2017 , 541, 558-566	9.6	28
132	'Smart' nanoparticles as drug delivery systems for applications in tumor therapy. <i>Expert Opinion on Drug Delivery</i> , 2015 , 12, 1943-53	8	27
131	Dual pH-responsive smart gating membranes. <i>Journal of Membrane Science</i> , 2018 , 555, 20-29	9.6	27
130	Graphene-based membranes for molecular and ionic separations in aqueous environments. <i>Chinese Journal of Chemical Engineering</i> , 2017 , 25, 1598-1605	3.2	27
129	Portable diagnosis method of hyperkalemia using potassium-recognizable poly(N-isopropylacrylamide-co-benzo-15-crown-5-acrylamide) copolymers. <i>Analytical Chemistry</i> , 2013 , 85, 6477-84	7.8	26
128	Ultrasensitive diffraction gratings based on smart hydrogels for highly selective and rapid detection of trace heavy metal ions. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 11356-11367	7.1	26
127	Chitosan microcapsule membranes with nanoscale thickness for controlled release of drugs. <i>Journal of Membrane Science</i> , 2019 , 590, 117275	9.6	25
126	pH-responsive Ca-alginate-based capsule membranes with grafted poly(methacrylic acid) brushes for controllable enzyme reaction. <i>Chemical Engineering Journal</i> , 2013 , 232, 573-581	14.7	25
125	Red-blood-cell-shaped chitosan microparticles prepared by electrospraying. <i>Particuology</i> , 2017 , 30, 151-157	15.7	25
124	Bio-inspired mini-eggs with pH-responsive membrane for enzyme immobilization. <i>Journal of Membrane Science</i> , 2013 , 429, 313-322	9.6	24
123	A simple strategy for in situ fabrication of a smart hydrogel microvalve within microchannels for thermostatic control. <i>Lab on A Chip</i> , 2014 , 14, 2626-34	7.2	23
122	Controlled release systems for insulin delivery. <i>Expert Opinion on Therapeutic Patents</i> , 2005 , 15, 1147-1158	11.5	23
121	Monodisperse Na ₂ SO ₄ ·10H ₂ O 2 Microparticles against Supercooling and Phase Separation during Phase Change for Efficient Energy Storage. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 3297-3308	3.9	22
120	An exploration of aptamer internalization mechanisms and their applications in drug delivery. <i>Expert Opinion on Drug Delivery</i> , 2019 , 16, 207-218	8	22
119	pH-responsive controlled release characteristics of solutes with different molecular weights diffusing across membranes of Ca-alginate/protamine/silica hybrid capsules. <i>Journal of Membrane Science</i> , 2015 , 474, 233-243	9.6	22

118	Monodisperse erythrocyte-sized and acid-soluble chitosan microspheres prepared via electrospraying. <i>RSC Advances</i> , 2015 , 5, 34243-34250	3.7	21
117	Facile Fabrication of Bubble-Propelled Micromotors Carrying Nanocatalysts for Water Remediation. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 4562-4570	3.9	21
116	A facile and controllable method to encapsulate phase change materials with non-toxic and biocompatible chemicals. <i>Applied Thermal Engineering</i> , 2014 , 70, 817-826	5.8	21
115	Hydrogel-based microactuators with remote-controlled locomotion and fast Pb ²⁺ -response for micromanipulation. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 7219-26	9.5	21
114	Conversion of alcoholic concentration variations into mechanical force via core-shell capsules. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 974-9	3.4	21
113	On-chip thermo-triggered coalescence of controllable Pickering emulsion droplet pairs. <i>RSC Advances</i> , 2016 , 6, 64182-64192	3.7	21
112	Novel composite membranes for simultaneous catalytic degradation of organic contaminants and adsorption of heavy metal ions. <i>Separation and Purification Technology</i> , 2020 , 237, 116364	8.3	20
111	A novel smart membrane with ion-recognizable nanogels as gates on interconnected pores for simple and rapid detection of trace lead(II) ions in water. <i>Journal of Membrane Science</i> , 2019 , 575, 28-37	9.6	20
110	Polymersomes with Rapid K-Triggered Drug-Release Behaviors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 19258-19268	9.5	19
109	Smart microcapsules for direction-specific burst release of hydrophobic drugs. <i>RSC Advances</i> , 2014 , 4, 46568-46575	3.7	19
108	Wetting-induced coalescence of nanoliter drops as microreactors in microfluidics. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 3817-21	9.5	19
107	Microfluidic fabrication and thermal characteristics of core-shell phase change microfibers with high paraffin content. <i>Applied Thermal Engineering</i> , 2015 , 87, 471-480	5.8	19
106	Regulation of Critical Ethanol Response Concentrations of Ethanol-Responsive Smart Gating Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 9554-9563	3.9	19
105	Synthesis and Characterization of a Novel Thermo-Sensitive Copolymer of N-Isopropylacrylamide and Dibenzo-18-crown-6-diacrylamide. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 2072-2077	4.8	19
104	Controllable Microfluidic Fabrication of Magnetic Hybrid Microswimmers with Hollow Helical Structures. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 9430-9438	3.9	19
103	Fabrication and flow characteristics of monodisperse bullet-shaped microparticles with controllable structures. <i>Chemical Engineering Journal</i> , 2019 , 370, 925-937	14.7	18
102	Microfluidic-based fabrication, characterization and magnetic functionalization of microparticles with novel internal anisotropic structure. <i>Scientific Reports</i> , 2015 , 5, 13060	4.9	18
101	First Exploration on a Poly(vinyl chloride) Ultrafiltration Membrane Prepared by Using the Sustainable Green Solvent PolarClean. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 91-101	8.3	18

100	Novel Membrane Detector Based on Smart Nanogels for Ultrasensitive Detection of Trace Threat Substances. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 36425-36434	9.5	18
99	A Novel Thermoresponsive Catalytic Membrane with Multiscale Pores Prepared via Vapor-Induced Phase Separation. <i>Small</i> , 2018 , 14, e1703650	11	17
98	Effect of Oxidized-Group-Supported Lamellar Distance on Stability of Graphene-Based Membranes in Aqueous Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 9439-9447	3.9	17
97	Bubble-Propelled Hierarchical Porous Micromotors from Evolved Double Emulsions. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 1590-1600	3.9	17
96	Diffusional permeability characteristics of positively K ⁺ -responsive membranes caused by spontaneously changing membrane pore size and surface wettability. <i>Journal of Membrane Science</i> , 2016 , 497, 328-338	9.6	16
95	Smart hydrogels: Network design and emerging applications. <i>Canadian Journal of Chemical Engineering</i> , 2018 , 96, 2100-2114	2.3	16
94	A novel, smart microsphere with K ⁽⁺⁾ -induced shrinking and aggregating properties based on a responsive host-guest system. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 19405-15	9.5	16
93	Microfluidic Preparation of Multicompartment Microcapsules for Isolated Co-encapsulation and Controlled Release of Diverse Components. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2012 , 13,	1.8	16
92	The microfluidic synthesis of composite hollow microfibers for K-responsive controlled release based on a host-guest system. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 3925-3935	7.3	16
91	Membrane-based separation technologies: from polymeric materials to novel process: an outlook from China. <i>Reviews in Chemical Engineering</i> , 2019 , 36, 67-105	5	15
90	Monodisperse hybrid microcapsules with an ultrathin shell of submicron thickness for rapid enzyme reactions. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 796-803	7.3	15
89	A novel synthetic microfiber with controllable size for cell encapsulation and culture. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 2455-2465	7.3	14
88	Novel Smart Microreactors Equipped with Responsive Catalytic Nanoparticles on Microchannels. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 33137-33148	9.5	14
87	Controllable Microfluidic Fabrication of Microstructured Materials from Nonspherical Particles to Helices. <i>Macromolecular Rapid Communications</i> , 2017 , 38, 1700429	4.8	14
86	Change in size and structure of monodisperse poly(N-isopropylacrylamide) microcapsules in response to varying temperature and ethyl gallate concentration. <i>Chemical Engineering Journal</i> , 2012 , 210, 212-219	14.7	14
85	A Novel Strategy to Fabricate Cation-Cross-linked Graphene Oxide Membrane with High Aqueous Stability and High Separation Performance. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 56269-56280	8.5	14
84	A novel double branched sulfonated polyimide membrane with ultra-high proton selectivity for vanadium redox flow battery. <i>Journal of Membrane Science</i> , 2021 , 628, 119259	9.6	14
83	Novel Multifunctional Stimuli-Responsive Nanoparticles for Synergetic Chemo-Photothermal Therapy of Tumors. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 28802-28817	9.5	14

82	Novel highly efficient branched polyfluoro sulfonated polyimide membranes for application in vanadium redox flow battery. <i>Journal of Power Sources</i> , 2021 , 485, 229354	8.9	14
81	Nanostructured Thermo-responsive Surfaces Engineered via Stable Immobilization of Smart Nanogels with Assistance of Polydopamine. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 44092-44105	8.5	14
80	Nano-gel containing thermo-responsive microspheres with fast response rate owing to hierarchical phase-transition mechanism. <i>Journal of Colloid and Interface Science</i> , 2012 , 377, 137-44	9.3	13
79	Halloysite Nanotube Compositated Thermo-responsive Hydrogel System for Controlled-release. <i>Chinese Journal of Chemical Engineering</i> , 2013 , 21, 991-998	3.2	13
78	Multiple emulsion formation from controllable drop pairs in microfluidics. <i>Microfluidics and Nanofluidics</i> , 2014 , 17, 967-972	2.8	13
77	Fabrication of a thermo-responsive membrane with cross-linked smart gates via a "grafting-to" method. <i>RSC Advances</i> , 2016 , 6, 45428-45433	3.7	12
76	Controllable fabrication of polyethersulfone hollow fiber membranes with a facile double co-axial microfluidic device. <i>Journal of Membrane Science</i> , 2017 , 526, 9-17	9.6	11
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