

Rui Xie

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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.

155
papers

5,693
citations

43
h-index

67
g-index

167
ext. papers

6,602
ext. citations

7.6
avg, IF

5.7
L-index

#	Paper	IF	Citations
155	Stimuli-responsive smart gating membranes. <i>Chemical Society Reviews</i> , 2016 , 45, 460-75	58.5	236
154	Membranes and membrane processes for chiral resolution. <i>Chemical Society Reviews</i> , 2008 , 37, 1243-63	58.5	220
153	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
152	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
151	Monodisperse core-shell chitosan microcapsules for pH-responsive burst release of hydrophobic drugs. <i>Soft Matter</i> , 2011 , 7, 4821	3.6	129
150	Multi-Stimuli-Responsive Microcapsules for Adjustable Controlled-Release. <i>Advanced Functional Materials</i> , 2014 , 24, 3312-3323	15.6	115
149	Preparation of submicrometer-sized monodispersed thermoresponsive core-shell hydrogel microspheres. <i>Langmuir</i> , 2004 , 20, 5247-53	4	110
148	Smart thermo-triggered squirting capsules for nanoparticle delivery. <i>Soft Matter</i> , 2010 , 6, 3759	3.6	108
147	Hole-shell microparticles from controllably evolved double emulsions. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8084-7	16.4	107
146	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
145	Preparation of thermo-responsive gating membranes with controllable response temperature. <i>Journal of Membrane Science</i> , 2007 , 289, 76-85	9.6	102
144	Characterization of microstructure of poly(N-isopropylacrylamide)-grafted polycarbonate track-etched membranes prepared by plasma-graft pore-filling polymerization. <i>Journal of Membrane Science</i> , 2005 , 258, 157-166	9.6	90
143	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
142	Rapid pH/temperature-responsive cationic hydrogels with dual stimuli-sensitive grafted side chains. <i>Polymer</i> , 2009 , 50, 2516-2525	3.9	87
141	Core-Shell Chitosan Microcapsules for Programmed Sequential Drug Release. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 10524-34	9.5	86
140	A Thermoresponsive Membrane for Chiral Resolution. <i>Advanced Functional Materials</i> , 2008 , 18, 652-663	15.6	84
139	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

138	Hydrogel Walkers with Electro-Driven Motility for Cargo Transport. <i>Scientific Reports</i> , 2015 , 5, 13622	4.9	81
137	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
136	Microfluidic fabrication of monodisperse microcapsules for glucose-response at physiological temperature. <i>Soft Matter</i> , 2013 , 9, 4150	3.6	74
135	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
134	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
133	Dual thermo-responsive and ion-recognizable monodisperse microspheres. <i>Polymer</i> , 2009 , 50, 922-929	3.9	70
132	Simple and cheap microfluidic devices for the preparation of monodisperse emulsions. <i>Lab on A Chip</i> , 2011 , 11, 3963-9	7.2	68
131	Preparation and enantiomer separation characteristics of chitosan/ β -cyclodextrin composite membranes. <i>Journal of Membrane Science</i> , 2007 , 297, 262-270	9.6	67
130	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
129	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
128	Preparation and characterization of dual stimuli-responsive microcapsules with a superparamagnetic porous membrane and thermo-responsive gates. <i>Journal of Membrane Science</i> , 2008 , 321, 324-330	9.6	65
127	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
126	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
125	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
124	A novel thermo-induced self-bursting microcapsule with magnetic-targeting property. <i>ChemPhysChem</i> , 2009 , 10, 2405-9	3.2	59
123	Trojan-Horse-Like Stimuli-Responsive Microcapsules. <i>Advanced Science</i> , 2018 , 5, 1700960	13.6	57
122	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
121	Microfluidic-based generation of functional microfibers for biomimetic complex tissue construction. <i>Acta Biomaterialia</i> , 2016 , 38, 153-62	10.8	56

120	Microfluidic preparation of monodisperse ethyl cellulose hollow microcapsules with non-toxic solvent. <i>Journal of Colloid and Interface Science</i> , 2009 , 336, 100-6	9.3	52
119	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
118	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
117	Stimuli-responsive Membranes: Smart Tools for Controllable Mass-transfer and Separation Processes. <i>Chinese Journal of Chemical Engineering</i> , 2011 , 19, 891-903	3.2	51
116	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
115	K(+)-recognition capsules with squirting release mechanisms. <i>Chemical Communications</i> , 2011 , 47, 12283-5	5.8	49
114	A microfluidic approach to fabricate monodisperse hollow or porous poly(HEMA-MMA) microspheres using single emulsions as templates. <i>Journal of Colloid and Interface Science</i> , 2009 , 336, 235-43	9.3	47
113	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
112	Controllable microfluidic strategies for fabricating microparticles using emulsions as templates. <i>Particuology</i> , 2016 , 24, 18-31	2.8	43
111	Uniform Microparticles with Controllable Highly Interconnected Hierarchical Porous Structures. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 13758-67	9.5	43
110	Smart responsive microcapsules capable of recognizing heavy metal ions. <i>Journal of Colloid and Interface Science</i> , 2010 , 349, 512-8	9.3	43
109	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
108	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
107	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
106	Microfluidic generation of hollow Ca-alginate microfibers. <i>Lab on A Chip</i> , 2016 , 16, 2673-81	7.2	41
105	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
104	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
103	Designable Polymeric Microparticles from Droplet Microfluidics for Controlled Drug Release. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800687	6.8	41

102	Monodisperse and fast-responsive poly(N-isopropylacrylamide) microgels with open-celled porous structure. <i>Langmuir</i> , 2014 , 30, 1455-64	4	40
101	Temperature-dependent molecular-recognizable membranes based on poly(N-isopropylacrylamide) and β -cyclodextrin. <i>Journal of Membrane Science</i> , 2009 , 326, 618-626	9.6	40
100	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
99	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
98	Controllable Multicompartmental Capsules with Distinct Cores and Shells for Synergistic Release. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 8743-54	9.5	37
97	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
96	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
95	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
94	Smart gating membranes with in situ self-assembled responsive nanogels as functional gates. <i>Scientific Reports</i> , 2015 , 5, 14708	4.9	34
93	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
92	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
91	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
90	Controllable synthesis of MnO ₂ nanostructures anchored on graphite foam with different morphologies for a high-performance asymmetric supercapacitor. <i>CrystEngComm</i> , 2018 , 20, 1690-1697	3.3	31
89	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
88	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
87	Alginate/protamine/silica hybrid capsules with ultrathin membranes for laccase immobilization. <i>AIChE Journal</i> , 2013 , 59, 380-389	3.6	29
86	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
85	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

84	Dual pH-responsive smart gating membranes. <i>Journal of Membrane Science</i> , 2018 , 555, 20-29	9.6	27
83	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
82	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
81	Chitosan microcapsule membranes with nanoscale thickness for controlled release of drugs. <i>Journal of Membrane Science</i> , 2019 , 590, 117275	9.6	25
80	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
79	Bio-inspired mini-eggs with pH-responsive membrane for enzyme immobilization. <i>Journal of Membrane Science</i> , 2013 , 429, 313-322	9.6	24
78	Preparation of monodisperse poly(N-isopropylacrylamide) microspheres and microcapsules via Shirasu-porous-glass membrane emulsification. <i>Desalination</i> , 2008 , 234, 184-194	10.3	24
77	Monodisperse Na ₂ SO ₄ ·10H ₂ O 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
76	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
75	Monodisperse erythrocyte-sized and acid-soluble chitosan microspheres prepared via electrospaying. <i>RSC Advances</i> , 2015 , 5, 34243-34250	3.7	21
74	Facile Fabrication of Bubble-Propelled Micromotors Carrying Nanocatalysts for Water Remediation. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 4562-4570	3.9	21
73	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
72	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
71	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
70	Biodegradable 'intelligent' materials in response to chemical stimuli for biomedical applications. <i>Expert Opinion on Therapeutic Patents</i> , 2009 , 19, 683-96	6.8	21
69	On-chip thermo-triggered coalescence of controllable Pickering emulsion droplet pairs. <i>RSC Advances</i> , 2016 , 6, 64182-64192	3.7	21
68	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
67	Polymersomes with Rapid K-Triggered Drug-Release Behaviors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 19258-19268	9.5	19

66	Smart microcapsules for direction-specific burst release of hydrophobic drugs. <i>RSC Advances</i> , 2014 , 4, 46568-46575	3.7	19
65	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
64	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
63	Monodisperse microspheres with poly(N-isopropylacrylamide) core and poly(2-hydroxyethyl methacrylate) shell. <i>Journal of Colloid and Interface Science</i> , 2010 , 346, 361-9	9.3	19
62	Controllable Microfluidic Fabrication of Magnetic Hybrid Microswimmers with Hollow Helical Structures. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 9430-9438	3.9	19
61	A Novel Thermoresponsive Catalytic Membrane with Multiscale Pores Prepared via Vapor-Induced Phase Separation. <i>Small</i> , 2018 , 14, e1703650	11	17
60	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
59	Bubble-Propelled Hierarchical Porous Micromotors from Evolved Double Emulsions. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 1590-1600	3.9	17
58	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
57	Smart hydrogels: Network design and emerging applications. <i>Canadian Journal of Chemical Engineering</i> , 2018 , 96, 2100-2114	2.3	16
56	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
55	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
54	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
53	Effects of surface wettability and roughness of microchannel on flow behaviors of thermo-responsive microspheres therein during the phase transition. <i>Journal of Colloid and Interface Science</i> , 2009 , 336, 162-70	9.3	15
52	Phase transition behaviors of poly(N-isopropylacrylamide) microgels induced by tannic acid. <i>Journal of Colloid and Interface Science</i> , 2010 , 343, 168-75	9.3	15
51	An easily recoverable thermo-sensitive polyelectrolyte as draw agent for forward osmosis process. <i>Chinese Journal of Chemical Engineering</i> , 2016 , 24, 86-93	3.2	14
50	Novel Smart Microreactors Equipped with Responsive Catalytic Nanoparticles on Microchannels. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 33137-33148	9.5	14
49	Controllable Microfluidic Fabrication of Microstructured Materials from Nonspherical Particles to Helices. <i>Macromolecular Rapid Communications</i> , 2017 , 38, 1700429	4.8	14

48	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
47	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
46	Nanostructured Thermoresponsive Surfaces Engineered via Stable Immobilization of Smart Nanogels with Assistance of Polydopamine. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 44092-44107	8.5	14
45	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
44	Halloysite Nanotube Compositated Thermo-responsive Hydrogel System for Controlled-release. <i>Chinese Journal of Chemical Engineering</i> , 2013 , 21, 991-998	3.2	13
43	Multiple emulsion formation from controllable drop pairs in microfluidics. <i>Microfluidics and Nanofluidics</i> , 2014 , 17, 967-972	2.8	13
42	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
41	Antifouling membranes with bi-continuous porous structures and high fluxes prepared by vapor-induced phase separation. <i>Journal of Membrane Science</i> , 2020 , 611, 118256	9.6	11
40	Visual detection of lead(II) using a simple device based on P(NIPAM-co-B18C6Am) hydrogel. <i>RSC Advances</i> , 2014 , 4, 26030-26037	3.7	11
39	Smart Hydrogel Gratings for Sensitive, Facile, and Rapid Detection of Ethanol Concentration. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 17833-17841	3.9	10
38	Transparent thermo-responsive poly(N-isopropylacrylamide)-l-poly(ethylene glycol)acrylamide conetwork hydrogels with rapid deswelling response. <i>New Journal of Chemistry</i> , 2019 , 43, 9507-9515	3.6	10
37	Microfluidic Fabrication of Structure-Controlled Chitosan Microcapsules via Interfacial Cross-Linking of Droplet Templates. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 57514-57525	9.5	10
36	A novel membrane with ion-recognizable copolymers in graphene-based nanochannels for facilitated transport of potassium ions. <i>Journal of Membrane Science</i> , 2019 , 591, 117345	9.6	10
35	Beta-cyclodextrin-based molecular-recognizable smart microcapsules for controlled release. <i>Journal of Materials Science</i> , 2014 , 49, 6862-6871	4.3	10
34	Spontaneous transfer of droplets across microfluidic laminar interfaces. <i>Lab on A Chip</i> , 2016 , 16, 4326-4332	3.2	10
33	Microfluidic fabrication of core-shell composite phase change microfibers with enhanced thermal conductive property. <i>Journal of Materials Science</i> , 2018 , 53, 15769-15783	4.3	10
32	K ⁺ -Responsive Block Copolymer Micelles for Targeted Intracellular Drug Delivery. <i>Macromolecular Bioscience</i> , 2017 , 17, 1700143	5.5	8
31	Effects of hydrophilicity of blended submicrogels on the microstructure and performance of thermo-responsive membranes. <i>Journal of Membrane Science</i> , 2019 , 584, 202-215	9.6	8

30	Visual detection of methanol in alcoholic beverages using alcohol-responsive poly(N-isopropylacrylamide-co-N,N-dimethylacrylamide) copolymers as indicators. <i>RSC Advances</i> , 2014 , 4, 61711-61721	3.7	8
29	Capsule membranes encapsulated with smart nanogels for facile detection of trace lead(II) ions in water. <i>Journal of Membrane Science</i> , 2020 , 613, 118523	9.6	8
28	CO ₂ -responsive poly(N,N-dimethylaminoethyl methacrylate) hydrogels with fast responsive rate. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019 , 94, 135-142	5.3	8
27	Smart Hydrogel Grating Immunosensors for Highly Selective and Sensitive Detection of Human-IgG. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 10469-10475	3.9	7
26	Lower critical solution temperatures of thermo-responsive poly(N-isopropylacrylamide) copolymers with racemate or single enantiomer groups. <i>Polymer International</i> , 2009 , 58, 202-208	3.3	7
25	A Simple Device Based on Smart Hollow Microgels for Facile Detection of Trace Lead(II) Ions. <i>ChemPhysChem</i> , 2018 , 19, 2025-2036	3.2	6
24	HoleShell Microparticles from Controllably Evolved Double Emulsions. <i>Angewandte Chemie</i> , 2013 , 125, 8242-8245	3.6	6
23	Online monitoring of ethanol concentration using a responsive microfluidic membrane device. <i>Analytical Methods</i> , 2016 , 8, 4028-4036	3.2	6
22	A Novel Poly(N-Isopropylacrylamide-co-acryloylamidobenzo-12-crown-4) Microgel with Rapid Stimuli-Responsiveness for Molecule-Specific Adsorption of β -Cyclodextrin. <i>Macromolecular Chemistry and Physics</i> , 2017 , 218, 1700216	2.6	5
21	Designable Micro-/Nano-Structured Smart Polymeric Materials.. <i>Advanced Materials</i> , 2021 , e2107877	24	5
20	Hybrid Graphene Oxide/Laponite Layered Membranes with Stable Two-Dimensional Nanochannels for Efficient Separations in Aqueous Environments. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 12441-12450	3.9	4
19	Gamma-Cyclodextrin-Recognition-Responsive Characteristics of Poly(N-isopropylacrylamide)-Based Hydrogels with Benzo-12-crown-4 Units as Signal Receptors. <i>Macromolecular Chemistry and Physics</i> , 2017 , 218, 1600386	2.6	4
18	Ethanol-Responsive Poly(Vinylidene Difluoride) Membranes with Nanogels as Functional Gates. <i>Chemical Engineering and Technology</i> , 2016 , 39, 841-848	2	4
17	Drug Delivery: Multi-Stimuli-Responsive Microcapsules for Adjustable Controlled-Release (Adv. Funct. Mater. 22/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 3290-3290	15.6	3
16	Functional Capsules Encapsulating Molecular-Recognizable Nanogels for Facile Removal of Organic Micro-Pollutants from Water. <i>Engineering</i> , 2021 , 7, 636-636	9.7	3
15	Magnetically Assembled Photonic Crystal Gels with Wide Thermochromic Range and High Sensitivity. <i>Macromolecular Rapid Communications</i> , 2021 , 42, e2100200	4.8	3
14	Injectable Temperature/Glucose Dual-Responsive Hydrogels for Controlled Release of Insulin. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 8147-8158	3.9	3
13	Facile Fabrication of Photocatalyst-Immobilized Gel Beads with Interconnected Macropores for the Efficient Removal of Pollutants in Water. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 8762-8775 ³	3.8	3

12	Visual detection of trace lead(II) using a forward osmosis-driven device loaded with ion-responsive nanogels. <i>Journal of Hazardous Materials</i> , 2021 , 404, 124157	12.8	3
11	A novel chemosensor for sensitive and facile detection of strontium ions based on ion-imprinted hydrogels modified with guanosine derivatives. <i>Journal of Hazardous Materials</i> , 2022 , 421, 126801	12.8	3
10	Enhanced H-filter based on FBrūs-Lindqvist effect for efficient and robust dialysis without membrane. <i>Biomicrofluidics</i> , 2015 , 9, 044112	3.2	2
9	Preparation and Characterization of Novel Low-Temperature/pH Dual-Responsive Poly(N-isopropylacrylamide-co-1H-benzimidazolyl-ethyl acrylate) Copolymers. <i>Macromolecular Chemistry and Physics</i> , 2019 , 220, 1900123	2.6	1
8	Smart Membranes: Positively K ⁺ -Responsive Membranes with Functional Gates Driven by Host-Guest Molecular Recognition (Adv. Funct. Mater. 22/2012). <i>Advanced Functional Materials</i> , 2012 , 22, 4741-4741	15.6	1
7	Microfluidic fabrication of hydrogel microparticles with MOF-armoured multi-enzymes for cascade biocatalytic reactions. <i>Reaction Chemistry and Engineering</i> ,	4.9	1
6	Pseudo Polyampholytes with Sensitively Ion-Responsive Conformational Transition Based on Positively Charged Host-Guest Complexes.. <i>Macromolecular Rapid Communications</i> , 2022 , e2200127	4.8	0
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4	Titelbild: HoleShell Microparticles from Controllably Evolved Double Emulsions (Angew. Chem. 31/2013). <i>Angewandte Chemie</i> , 2013 , 125, 8043-8043	3.6	
3	Functional Microcapsules with Thermo-responsive Hydrogel Shells 2013 , 135-152		
2	Preparation and Properties of Monodisperse Thermo-responsive Microgels 2013 , 25-58		
1	Hollow fiber membranes with knitted braid-like structures for process intensification via generation of Dean vortices. <i>Separation Science and Technology</i> ,1-17	2.5	