Rui Xie

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3763808/publications.pdf

Version: 2024-02-01

161	7,374	38660 50	69108 77
papers	citations	h-index	g-index

167	167	167	7771
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Stimuli-responsive smart gating membranes. Chemical Society Reviews, 2016, 45, 460-475.	18.7	334
2	Membranes and membrane processes for chiral resolution. Chemical Society Reviews, 2008, 37, 1243.	18.7	283
3	Reduced Graphene Oxide-Containing Smart Hydrogels with Excellent Electro-Response and Mechanical Properties for Soft Actuators. ACS Applied Materials & Interfaces, 2017, 9, 15758-15767.	4.0	207
4	Near-Infrared Light-Responsive Poly(N-isopropylacrylamide)/Graphene Oxide Nanocomposite Hydrogels with Ultrahigh Tensibility. ACS Applied Materials & Interfaces, 2015, 7, 27289-27298.	4.0	182
5	Monodisperse core-shell chitosan microcapsules for pH-responsive burst release of hydrophobic drugs. Soft Matter, 2011, 7, 4821.	1.2	146
6	Multiâ€Stimuliâ€Responsive Microcapsules for Adjustable Controlledâ€Release. Advanced Functional Materials, 2014, 24, 3312-3323.	7.8	141
7	Graphene Oxide Membranes with Strong Stability in Aqueous Solutions and Controllable Lamellar Spacing. ACS Applied Materials & Interfaces, 2016, 8, 15557-15566.	4.0	138
8	Coreâ€“Shell Chitosan Microcapsules for Programmed Sequential Drug Release. ACS Applied Materials & Interfaces, 2016, 8, 10524-10534.	4.0	132
9	Preparation of Submicrometer-Sized Monodispersed Thermoresponsive Coreâˆ'Shell Hydrogel Microspheres. Langmuir, 2004, 20, 5247-5253.	1.6	122
10	Holeâ€“Shell Microparticles from Controllably Evolved Double Emulsions. Angewandte Chemie - International Edition, 2013, 52, 8084-8087.	7.2	121
11	Smart thermo-triggered squirting capsules for nanoparticle delivery. Soft Matter, 2010, 6, 3759.	1.2	118
12	Graphene-based membranes with uniform 2D nanochannels for precise sieving of mono-/multi-valent metal ions. Journal of Membrane Science, 2018, 550, 208-218.	4.1	116
13	Preparation of thermo-responsive gating membranes with controllable response temperature. Journal of Membrane Science, 2007, 289, 76-85.	4.1	113
14	Hydrogel Walkers with Electro-Driven Motility for Cargo Transport. Scientific Reports, 2015, 5, 13622.	1.6	100
15	Thermo-responsive gating membranes with controllable length and density of poly(N-isopropylacrylamide) chains grafted by ATRP method. Journal of Membrane Science, 2009, 337, 310-317.	4.1	99
16	Characterization of microstructure of poly(-isopropylacrylamide)-grafted polycarbonate track-etched membranes prepared by plasma-graft pore-filling polymerization. Journal of Membrane Science, 2005, 258, 157-166.	4.1	98
17	Smart Hydrogels with Inhomogeneous Structures Assembled Using Nanoclay-Cross-Linked Hydrogel Subunits as Building Blocks. ACS Applied Materials & Interfaces, 2016, 8, 21721-21730.	4.0	98
18	Microfluidic fabrication of monodisperse microcapsules for glucose-response at physiological temperature. Soft Matter, 2013, 9, 4150.	1.2	95

#	Article	IF	Citations
19	A Thermoresponsive Membrane for Chiral Resolution. Advanced Functional Materials, 2008, 18, 652-663.	7.8	94
20	Microfluidic Fabrication of Bio-Inspired Microfibers with Controllable Magnetic Spindle-Knots for 3D Assembly and Water Collection. ACS Applied Materials & Interfaces, 2015, 7, 17471-17481.	4.0	91
21	Rapid pH/temperature-responsive cationic hydrogels with dual stimuli-sensitive grafted side chains. Polymer, 2009, 50, 2516-2525.	1.8	90
22	pH-responsive poly(ether sulfone) composite membranes blended with amphiphilic polystyrene-block-poly(acrylic acid) copolymers. Journal of Membrane Science, 2014, 450, 162-173.	4.1	90
23	Positively K⁺â€Responsive Membranes with Functional Gates Driven by Hostâ€“Guest Molecular Recognition. Advanced Functional Materials, 2012, 22, 4742-4750.	7.8	87
24	Study of SPG membrane emulsification processes for the preparation ofÂmonodisperse coreâ€“shell microcapsules. Journal of Colloid and Interface Science, 2003, 265, 187-196.	5.0	84
25	Trojanâ€Horseâ€Like Stimuliâ€Responsive Microcapsules. Advanced Science, 2018, 5, 1700960.	5.6	83
26	Simple and cheap microfluidic devices for the preparation of monodisperse emulsions. Lab on A Chip, 2011, 11, 3963.	3.1	80
27	Dual thermo-responsive and ion-recognizable monodisperse microspheres. Polymer, 2009, 50, 922-929.	1.8	79
28	Novel Intestinal-Targeted Ca-Alginate-Based Carrier for pH-Responsive Protection and Release of Lactic Acid Bacteria. ACS Applied Materials & Interfaces, 2014, 6, 5962-5970.	4.0	79
29	Ion-recognizable hydrogels for efficient removal of cesium ions from aqueous environment. Journal of Hazardous Materials, 2017, 323, 632-640.	6.5	79
30	Gating membranes for water treatment: detection and removal of trace Pb2+ ions based on molecular recognition and polymer phase transition. Journal of Materials Chemistry A, 2013, 1, 9659.	5.2	75
31	Preparation and enantiomer separation characteristics of chitosan/Î²-cyclodextrin composite membranes. Journal of Membrane Science, 2007, 297, 262-270.	4.1	74
32	Microfluidic-based generation of functional microfibers for biomimetic complex tissue construction. Acta Biomaterialia, 2016, 38, 153-162.	4.1	73
33	Designable Polymeric Microparticles from Droplet Microfluidics for Controlled Drug Release. Advanced Materials Technologies, 2019, 4, 1800687.	3.0	73
34	Preparation and characterization of dual stimuli-responsive microcapsules with a superparamagnetic porous membrane and thermo-responsive gates. Journal of Membrane Science, 2008, 321, 324-330.	4.1	69
35	Preparation of high strength poly(vinylidene fluoride) porous membranes with cellular structure via vapor-induced phase separation. Journal of Membrane Science, 2018, 549, 151-164.	4.1	67
36	Simple and Continuous Fabrication of Self-Propelled Micromotors with Photocatalytic Metalâ€“Organic Frameworks for Enhanced Synergistic Environmental Remediation. ACS Applied Materials & Interfaces, 2020, 12, 35120-35131.	4.0	67

#	Article	IF	Citations
37	A Novel Thermoâ€Induced Selfâ€Bursting Microcapsule with Magneticâ€Targeting Property. ChemPhysChem, 2009, 10, 2405-2409.	1.0	66
38	Thermo-responsive monodisperse coreâ€“shell microspheres with PNIPAM core and biocompatible porous ethyl cellulose shell embedded with PNIPAM gates. Journal of Colloid and Interface Science, 2012, 376, 97-106.	5.0	65
39	A thermo-responsive affinity membrane with nano-structured pores and grafted poly(N-isopropylacrylamide) surface layer for hydrophobic adsorption. Journal of Membrane Science, 2010, 349, 258-267.	4.1	64
40	Stimuli-responsive Membranes: Smart Tools for Controllable Mass-transfer and Separation Processes. Chinese Journal of Chemical Engineering, 2011, 19, 891-903.	1.7	63
41	Microfluidic preparation of monodisperse ethyl cellulose hollow microcapsules with non-toxic solvent. Journal of Colloid and Interface Science, 2009, 336, 100-106.	5.0	59
42	A microfluidic approach to fabricate monodisperse hollow or porous poly(HEMAâ€“MMA) microspheres using single emulsions as templates. Journal of Colloid and Interface Science, 2009, 336, 235-243.	5.0	59
43	Poly(Nâ€isopropylacrylamide)â€based combâ€type grafted hydrogel with rapid response to blood glucose concentration change at physiological temperature. Polymers for Advanced Technologies, 2008, 19, 937-943.	1.6	58
44	Ethanolâ€responsive characteristics of polyethersulfone composite membranes blended with poly(Nâ€isopropylacrylamide) nanogels. Journal of Applied Polymer Science, 2014, 131, .	1.3	58
45	Nanocomposite smart hydrogels with improved responsiveness and mechanical properties: A mini review. Journal of Polymer Science, Part B: Polymer Physics, 2018, 56, 1306-1313.	2.4	56
46	K+-recognition capsules with squirting release mechanisms. Chemical Communications, 2011, 47, 12283.	2.2	55
47	Microfluidic fabrication of chitosan microfibers with controllable internals from tubular to peapod-like structures. RSC Advances, 2015, 5, 928-936.	1.7	54
48	Controllable microfluidic strategies for fabricating microparticles using emulsions as templates. Particuology, 2016, 24, 18-31.	2.0	54
49	Fabrication of nanofibers with phase-change core and hydrophobic shell, via coaxial electrospinning using nontoxic solvent. Journal of Materials Science, 2015, 50, 5729-5738.	1.7	52
50	Fabrication of glass-based microfluidic devices with dry film photoresists as pattern transfer masks for wet etching. RSC Advances, 2015, 5, 5638-5646.	1.7	51
51	Microfluidic generation of hollow Ca-alginate microfibers. Lab on A Chip, 2016, 16, 2673-2681.	3.1	51
52	Novel calcium-alginate capsules with aqueous core and thermo-responsive membrane. Journal of Colloid and Interface Science, 2011, 353, 61-68.	5.0	50
53	Novel cationic pH-responsive poly(N,N-dimethylaminoethyl methacrylate) microcapsules prepared by a microfluidic technique. Journal of Colloid and Interface Science, 2011, 357, 101-108.	5.0	48
54	Uniform Microparticles with Controllable Highly Interconnected Hierarchical Porous Structures. ACS Applied Materials & Interfaces, 2015, 7, 13758-13767.	4.0	48

#	Article	IF	Citations
55	Comprehensive Effects of Metal Ions on Responsive Characteristics of P(NIPAM-co-B18C6Am). Journal of Physical Chemistry B, 2012, 116, 5527-5536.	1.2	47
56	Controllable Multicompartmental Capsules with Distinct Cores and Shells for Synergistic Release. ACS Applied Materials & Interfaces, 2016, 8, 8743-8754.	4.0	47
57	Smart responsive microcapsules capable of recognizing heavy metal ions. Journal of Colloid and Interface Science, 2010, 349, 512-518.	5.0	46
58	Monodisperse and Fast-Responsive Poly(N-isopropylacrylamide) Microgels with Open-Celled Porous Structure. Langmuir, 2014, 30, 1455-1464.	1.6	46
59	Novel Biocompatible Thermoresponsive Poly(N-vinyl Caprolactam)/Clay Nanocomposite Hydrogels with Macroporous Structure and Improved Mechanical Characteristics. ACS Applied Materials & Interfaces, 2017, 9, 21979-21990.	4.0	46
60	Gating characteristics of thermo-responsive and molecular-recognizable membranes based on poly(N-isopropylacrylamide) and Î²-cyclodextrin. Journal of Membrane Science, 2010, 355, 142-150.	4.1	44
61	Chitosan microcapsule membranes with nanoscale thickness for controlled release of drugs. Journal of Membrane Science, 2019, 590, 117275.	4.1	44
62	Ultrasensitive microchip based on smart microgel for real-time online detection of trace threat analytes. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2023-2028.	3.3	43
63	Dual pH-responsive smart gating membranes. Journal of Membrane Science, 2018, 555, 20-29.	4.1	43
64	Smart gating membranes with in situ self-assembled responsive nanogels as functional gates. Scientific Reports, 2015, 5, 14708.	1.6	42
65	Temperature-dependent molecular-recognizable membranes based on poly(N-isopropylacrylamide) and Î²-cyclodextrin. Journal of Membrane Science, 2009, 326, 618-626.	4.1	41
66	A Novel Strategy to Fabricate Cation-Cross-linked Graphene Oxide Membrane with High Aqueous Stability and High Separation Performance. ACS Applied Materials & Interfaces, 2020, 12, 56269-56280.	4.0	41
67	Designable Microâ€/Nanoâ€Structured Smart Polymeric Materials. Advanced Materials, 2022, 34, e2107877.	11.1	41
68	A novel ionâ€imprinted hydrogel for recognition of potassium ions with rapid response. Polymers for Advanced Technologies, 2011, 22, 1389-1394.	1.6	39
69	Ultrasensitive diffraction gratings based on smart hydrogels for highly selective and rapid detection of trace heavy metal ions. Journal of Materials Chemistry C, 2018, 6, 11356-11367.	2.7	39
70	Novel Multifunctional Stimuli-Responsive Nanoparticles for Synergetic Chemoâ€“Photothermal Therapy of Tumors. ACS Applied Materials & Interfaces, 2021, 13, 28802-28817.	4.0	39
71	Facile Fabrication of Composite Membranes with Dual Thermo- and pH-Responsive Characteristics. ACS Applied Materials & Interfaces, 2017, 9, 14409-14421.	4.0	38
72	Controllable synthesis of MnO₂ nanostructures anchored on graphite foam with different morphologies for a high-performance asymmetric supercapacitor. CrystEngComm, 2018, 20, 1690-1697.	1.3	38

#	Article	IF	Citations
73	Nano-structure construction of porous membranes by depositing nanoparticles for enhanced surface wettability. Journal of Membrane Science, 2013, 427, 63-72.	4.1	37
74	Thermosensitive Affinity Behavior of Poly(N-isopropylacrylamide) Hydrogels with Î²-Cyclodextrin Moieties. Industrial & Engineering Chemistry Research, 2007, 46, 1511-1518.	1.8	35
75	Effects of fabrication conditions on the microstructures and performances of smart gating membranes with in situ assembled nanogels as gates. Journal of Membrane Science, 2016, 519, 32-44.	4.1	35
76	Alginate/protamine/silica hybrid capsules with ultrathin membranes for laccase immobilization. AICHE Journal, 2013, 59, 380-389.	1.8	34
77	Molecularâ€Recognitionâ€Induced Phase Transitions of Two Thermoâ€Responsive Polymers with Pendent Î²â€Cyclodextrin Groups. Macromolecular Chemistry and Physics, 2008, 209, 204-211.	1.1	33
78	pH-responsive Ca-alginate-based capsule membranes with grafted poly(methacrylic acid) brushes for controllable enzyme reaction. Chemical Engineering Journal, 2013, 232, 573-581.	6.6	33
79	Portable Diagnosis Method of Hyperkalemia Using Potassium-Recognizable Poly(N-isopropylacrylamide-co-benzo-15-crown-5-acrylamide) Copolymers. Analytical Chemistry, 2013, 85, 6477-6484.	3.2	33
80	Monodisperse Na₂SO₄Â·10H₂O@SiO₂ Microparticles against Supercooling and Phase Separation during Phase Change for Efficient Energy Storage. Industrial & Engineering Chemistry Research, 2017, 56, 3297-3308.	1.8	33
81	Microfluidic fabrication and thermal characteristics of coreâ€“shell phase change microfibers with high paraffin content. Applied Thermal Engineering, 2015, 87, 471-480.	3.0	31
82	Bio-inspired mini-eggs with pH-responsive membrane for enzyme immobilization. Journal of Membrane Science, 2013, 429, 313-322.	4.1	28
83	Polymersomes with Rapid K⁺-Triggered Drug-Release Behaviors. ACS Applied Materials & Interfaces, 2017, 9, 19258-19268.	4.0	28
84	Controllable Microfluidic Fabrication of Magnetic Hybrid Microswimmers with Hollow Helical Structures. Industrial & Engineering Chemistry Research, 2018, 57, 9430-9438.	1.8	28
85	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. Journal of Membrane Science, 2019, 575, 28-37.	4.1	28
86	Biodegradable â€˜intelligentâ€™ materials in response to chemical stimuli for biomedical applications. Expert Opinion on Therapeutic Patents, 2009, 19, 683-696.	2.4	27
87	A facile and controllable method to encapsulate phase change materials with non-toxic and biocompatible chemicals. Applied Thermal Engineering, 2014, 70, 817-826.	3.0	27
88	Preparation of monodisperse poly(N-isopropylacrylamide) microspheres and microcapsules via Shirasu-porous-glass membrane emulsification. Desalination, 2008, 234, 184-194.	4.0	26
89	Hydrogel-Based Microactuators with Remote-Controlled Locomotion and Fast Pb²⁺-Response for Micromanipulation. ACS Applied Materials & Interfaces, 2013, 5, 7219-7226.	4.0	26
90	Monodisperse erythrocyte-sized and acid-soluble chitosan microspheres prepared via electrospraying. RSC Advances, 2015, 5, 34243-34250.	1.7	26

#	Article	IF	Citations
91	pH-responsive controlled release characteristics of solutes with different molecular weights diffusing across membranes of Ca-alginate/protamine/silica hybrid capsules. Journal of Membrane Science, 2015, 474, 233-243.	4.1	26
92	Conversion of Alcoholic Concentration Variations into Mechanical Force via Coreâ€“Shell Capsules. Journal of Physical Chemistry B, 2012, 116, 974-979.	1.2	25
93	On-chip thermo-triggered coalescence of controllable Pickering emulsion droplet pairs. RSC Advances, 2016, 6, 64182-64192.	1.7	25
94	A Novel Thermoresponsive Catalytic Membrane with Multiscale Pores Prepared via Vaporâ€Induced Phase Separation. Small, 2018, 14, e1703650.	5.2	25
95	Facile Fabrication of Bubble-Propelled Micromotors Carrying Nanocatalysts for Water Remediation. Industrial & Engineering Chemistry Research, 2018, 57, 4562-4570.	1.8	25
96	Effect of Oxidized-Group-Supported Lamellar Distance on Stability of Graphene-Based Membranes in Aqueous Solutions. Industrial & Engineering Chemistry Research, 2018, 57, 9439-9447.	1.8	25
97	Bubble-Propelled Hierarchical Porous Micromotors from Evolved Double Emulsions. Industrial & Engineering Chemistry Research, 2019, 58, 1590-1600.	1.8	25
98	Smart microcapsules for direction-specific burst release of hydrophobic drugs. RSC Advances, 2014, 4, 46568-46575.	1.7	24
99	Microfluidic Fabrication of Structure-Controlled Chitosan Microcapsules via Interfacial Cross-Linking of Droplet Templates. ACS Applied Materials & Interfaces, 2020, 12, 57514-57525.	4.0	24
100	Transparent thermo-responsive poly(N-isopropylacrylamide)-l-poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td 2019, 43, 9507-9515.	1.4	23
101	Monodisperse microspheres with poly(N-isopropylacrylamide) core and poly(2-hydroxyethyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	5.0	22
102	Microfluidic Preparation of Multicompartment Microcapsules for Isolated Co-encapsulation and Controlled Release of Diverse Components. International Journal of Nonlinear Sciences and Numerical Simulation, 2012, 13, 325-332.	0.4	22
103	Regulation of Critical Ethanol Response Concentrations of Ethanol-Responsive Smart Gating Membranes. Industrial & Engineering Chemistry Research, 2012, 51, 9554-9563.	1.8	22
104	A novel membrane with ion-recognizable copolymers in graphene-based nanochannels for facilitated transport of potassium ions. Journal of Membrane Science, 2019, 591, 117345.	4.1	22
105	A Novel, Smart Microsphere with K⁺-Induced Shrinking and Aggregating Properties Based on a Responsive Hostâ€“Guest System. ACS Applied Materials & Interfaces, 2014, 6, 19405-19415.	4.0	21
106	An easily recoverable thermo-sensitive polyelectrolyte as draw agent for forward osmosis process. Chinese Journal of Chemical Engineering, 2016, 24, 86-93.	1.7	21
107	Antifouling membranes with bi-continuous porous structures and high fluxes prepared by vapor-induced phase separation. Journal of Membrane Science, 2020, 611, 118256.	4.1	21
108	The microfluidic synthesis of composite hollow microfibers for K⁺-responsive controlled release based on a hostâ€“guest system. Journal of Materials Chemistry B, 2016, 4, 3925-3935.	2.9	20

#	Article	IF	Citations
109	Nanostructured Thermoresponsive Surfaces Engineered via Stable Immobilization of Smart Nanogels with Assistance of Polydopamine. ACS Applied Materials & Interfaces, 2018, 10, 44092-44101.	4.0	20
110	Smart hydrogels: Network design and emerging applications. Canadian Journal of Chemical Engineering, 2018, 96, 2100-2114.	0.9	20
111	Injectable Temperature/Glucose Dual-Responsive Hydrogels for Controlled Release of Insulin. Industrial & Engineering Chemistry Research, 2021, 60, 8147-8158.	1.8	20
112	Effects of surface wettability and roughness of microchannel on flow behaviors of thermo-responsive microspheres therein during the phase transition. Journal of Colloid and Interface Science, 2009, 336, 162-170.	5.0	19
113	Phase transition behaviors of poly(N-isopropylacrylamide) microgels induced by tannic acid. Journal of Colloid and Interface Science, 2010, 343, 168-175.	5.0	19
114	Novel Smart Microreactors Equipped with Responsive Catalytic Nanoparticles on Microchannels. ACS Applied Materials & Interfaces, 2017, 9, 33137-33148.	4.0	19
115	Controllable Microfluidic Fabrication of Microstructured Materials from Nonspherical Particles to Helices. Macromolecular Rapid Communications, 2017, 38, 1700429.	2.0	19
116	Microfluidic fabrication of coreâ€“sheath composite phase change microfibers with enhanced thermal conductive property. Journal of Materials Science, 2018, 53, 15769-15783.	1.7	19
117	Smart Hydrogel Gratings for Sensitive, Facile, and Rapid Detection of Ethanol Concentration. Industrial & Engineering Chemistry Research, 2019, 58, 17833-17841.	1.8	19
118	A novel chemosensor for sensitive and facile detection of strontium ions based on ion-imprinted hydrogels modified with guanosine derivatives. Journal of Hazardous Materials, 2022, 421, 126801.	6.5	19
119	Diffusional permeability characteristics of positively K+-responsive membranes caused by spontaneously changing membrane pore size and surface wettability. Journal of Membrane Science, 2016, 497, 328-338.	4.1	18
120	Spontaneous transfer of droplets across microfluidic laminar interfaces. Lab on A Chip, 2016, 16, 4326-4332.	3.1	17
121	Halloysite Nanotube Composited Thermo-responsive Hydrogel System for Controlled-release. Chinese Journal of Chemical Engineering, 2013, 21, 991-998.	1.7	16
122	Fabrication of a thermo-responsive membrane with cross-linked smart gates via a â€˜grafting-toâ€™ method. RSC Advances, 2016, 6, 45428-45433.	1.7	16
123	Facile Fabrication of Photocatalyst-Immobilized Gel Beads with Interconnected Macropores for the Efficient Removal of Pollutants in Water. Industrial & Engineering Chemistry Research, 2021, 60, 8762-8775.	1.8	16
124	Nano-gel containing thermo-responsive microspheres with fast response rate owing to hierarchical phase-transition mechanism. Journal of Colloid and Interface Science, 2012, 377, 137-144.	5.0	14
125	Multiple emulsion formation from controllable drop pairs in microfluidics. Microfluidics and Nanofluidics, 2014, 17, 967-972.	1.0	14
126	Effects of hydrophilicity of blended submicrogels on the microstructure and performance of thermo-responsive membranes. Journal of Membrane Science, 2019, 584, 202-215.	4.1	14

#	Article	IF	Citations
127	Smart Hydrogel Grating Immunosensors for Highly Selective and Sensitive Detection of Human-IgG. Industrial & Engineering Chemistry Research, 2020, 59, 10469-10475.	1.8	14
128	Visual detection of trace lead(II) using a forward osmosis-driven device loaded with ion-responsive nanogels. Journal of Hazardous Materials, 2021, 404, 124157.	6.5	14
129	Visual detection of lead(<scp>ii</scp>) using a simple device based on P(NIPAM-co-B18C6Am) hydrogel. RSC Advances, 2014, 4, 26030-26037.	1.7	13
130	Hybrid Graphene Oxide/Laponite Layered Membranes with Stable Two-Dimensional Nanochannels for Efficient Separations in Aqueous Environments. Industrial & Engineering Chemistry Research, 2020, 59, 12441-12450.	1.8	13
131	Beta-cyclodextrin-based molecular-recognizable smart microcapsules for controlled release. Journal of Materials Science, 2014, 49, 6862-6871.	1.7	12
132	A Simple Device Based on Smart Hollow Microgels for Facile Detection of Trace Lead(II) Ions. ChemPhysChem, 2018, 19, 2025-2036.	1.0	12
133	CO2-responsive poly(N,N-dimethylaminoethyl methacrylate) hydrogels with fast responsive rate. Journal of the Taiwan Institute of Chemical Engineers, 2019, 94, 135-142.	2.7	12
134	Capsule membranes encapsulated with smart nanogels for facile detection of trace lead(II) ions in water. Journal of Membrane Science, 2020, 613, 118523.	4.1	12
135	K⁺â€Responsive Block Copolymer Micelles for Targeted Intracellular Drug Delivery. Macromolecular Bioscience, 2017, 17, 1700143.	2.1	11
136	Online monitoring of ethanol concentration using a responsive microfluidic membrane device. Analytical Methods, 2016, 8, 4028-4036.	1.3	9
137	Functional Capsules Encapsulating Molecular-Recognizable Nanogels for Facile Removal of Organic Micro-Pollutants from Water. Engineering, 2021, 7, 636-646.	3.2	9
138	Lower critical solution temperatures of thermo-responsive poly(N-isopropylacrylamide) copolymers with racemate or single enantiomer groups. Polymer International, 2009, 58, 202-208.	1.6	8
139	Visual detection of methanol in alcoholic beveragesÂusing alcohol-responsive poly(N-isopropylacrylamide-co-N,N-dimethylacrylamide) copolymers as indicators. RSC Advances, 2014, 4, 61711-61721.	1.7	8
140	Magnetically Assembled Photonic Crystal Gels with Wide Thermochromic Range and High Sensitivity. Macromolecular Rapid Communications, 2021, 42, e2100200.	2.0	8
141	Microfluidic fabrication of hydrogel microparticles with MOF-armoured multi-enzymes for cascade biocatalytic reactions. Reaction Chemistry and Engineering, 2022, 7, 275-283.	1.9	8
142	Ethanolâ€Responsive Poly(Vinylidene Difluoride) Membranes with Nanogels as Functional Gates. Chemical Engineering and Technology, 2016, 39, 841-848.	0.9	7
143	A Novel Poly(Nâ€Isopropylacrylamideâ€coâ€acryloylamidobenzoâ€12â€crownâ€4) Microgel with Rapid Stimuliâ€Responsiveness for Moleculeâ€Specific Adsorption of Î³â€Cyclodextrin. Macromolecular Chemistry and Physics, 2017, 218, 1700216.	1.1	7
144	Stimulus-Responsive Nanoparticle-Integrated Dissolving Microneedles for Synergetic Chemo-Photothermal Therapy of Superficial Skin Tumors. Industrial & Engineering Chemistry Research, 2022, 61, 7982-7995.	1.8	7

#	Article	IF	Citations
145	Smart membranes for biomedical applications. Chinese Journal of Chemical Engineering, 2022, 49, 34-45.	1.7	7
146	Gammaâ€Cyclodextrinâ€Recognitionâ€Responsive Characteristics of Poly(Nâ€isopropylacrylamide)â€Based Hydrogels with Benzoâ€12â€crownâ€4 Units as Signal Receptors. Macromolecular Chemistry and Physics, 2017, 218, 1600386.	1.1	6
147	Smart hydrogels with wide visible color tunability. NPG Asia Materials, 2022, 14, .	3.8	6
148	Efficient Detection of Hyperkalemia with Highly Transparent and Ion-Recognizable Hydrogel Grating Sensors. Industrial & Engineering Chemistry Research, 2022, 61, 2483-2493.	1.8	5
149	Enhanced H-filter based on FÃ¥hrÃ¦us-Lindqvist effect for efficient and robust dialysis without membrane. Biomicrofluidics, 2015, 9, 044112.	1.2	4
150	Drug Delivery: Multiâ€Stimuliâ€Responsive Microcapsules for Adjustable Controlledâ€Release (Adv. Funct.) Tj ETQq0 0 0 rgBT /Overlock	7.8	3
151	Zinc-coordinated polydopamine surface with a nanostructure and superhydrophilicity for antibiofouling and antibacterial applications. Materials Advances, 2022, 3, 5476-5487.	2.6	3
152	Pseudo Polyampholytes with Sensitively Ionâ€Responsive Conformational Transition Based on Positively Charged Hostâ€“Guest Complexes. Macromolecular Rapid Communications, 2022, , 2200127.	2.0	2
153	Humidity-Responsive Actuators Based on Firm Heterojunction of Glycerol-Cross-linked Polyvinyl Alcohol and Porous Polyvinylidene Fluoride as Smart Gates for Anti-condensation. Industrial & Engineering Chemistry Research, 2022, 61, 8101-8111.	1.8	2
154	Smart Membranes: Positively K⁺â€Responsive Membranes with Functional Gates Driven by Hostâ€“Guest Molecular Recognition (Adv. Funct. Mater. 22/2012). Advanced Functional Materials, 2012, 22, 4741-4741.	7.8	1
155	Preparation and Characterization of Novel Lowâ€Temperature/pH Dualâ€Responsive Poly(N) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf Physics, 2019, 220, 1900123.	1.1	1
156	Titelbild: Hole-Shell Microparticles from Controllably Evolved Double Emulsions (Angew. Chem.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 30	1.6	0
157	Macromol. Rapid Commun. 14/2014. Macromolecular Rapid Communications, 2014, 35, 1308-1308.	2.0	0
158	Macromol. Chem. Phys. 1/2017. Macromolecular Chemistry and Physics, 2017, 218, .	1.1	0
159	Functional Microcapsules with Thermo-responsive Hydrogel Shells. , 2013, , 135-152.		0
160	Preparation and Properties of Monodisperse Thermo-responsive Microgels. , 2013, , 25-58.		0
161	Hollow fiber membranes with knitted braid-like structures for process intensification via generation of Dean vortices. Separation Science and Technology, 0, , 1-17.	1.3	0