

Wei Wang

List of Publications by Citations

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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.

99
papers

4,870
citations

35
h-index

68
g-index

106
ext. papers

5,759
ext. citations

8.2
avg, IF

5.7
L-index

#	Paper	IF	Citations
99	Autonomous motion of metallic microrods propelled by ultrasound. <i>ACS Nano</i> , 2012 , 6, 6122-32	16.7	477
98	Nano-structured smart hydrogels with rapid response and high elasticity. <i>Nature Communications</i> , 2013 , 4, 2226	17.4	447
97	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
96	Stimuli-responsive smart gating membranes. <i>Chemical Society Reviews</i> , 2016 , 45, 460-75	58.5	236
95	Functional polymeric microparticles engineered from controllable microfluidic emulsions. <i>Accounts of Chemical Research</i> , 2014 , 47, 373-84	24.3	186
94	Controllable microfluidic production of multicomponent multiple emulsions. <i>Lab on A Chip</i> , 2011 , 11, 1587-92	7.2	171
93	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
92	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
91	Monodisperse core-shell chitosan microcapsules for pH-responsive burst release of hydrophobic drugs. <i>Soft Matter</i> , 2011 , 7, 4821	3.6	129
90	Multi-Stimuli-Responsive Microcapsules for Adjustable Controlled-Release. <i>Advanced Functional Materials</i> , 2014 , 24, 3312-3323	15.6	115
89	Smart thermo-triggered squirting capsules for nanoparticle delivery. <i>Soft Matter</i> , 2010 , 6, 3759	3.6	108
88	Dual temperature/pH-sensitive drug delivery of poly(N-isopropylacrylamide-co-acrylic acid) nanogels conjugated with doxorubicin for potential application in tumor hyperthermia therapy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011 , 84, 447-53	6	108
87	Hole-shell microparticles from controllably evolved double emulsions. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8084-7	16.4	107
86	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
85	Rapid removal of Hg(II) from aqueous solutions using thiol-functionalized Zn-doped biomagnetite particles. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 4373-9	9.5	87
84	Core-Shell Chitosan Microcapsules for Programmed Sequential Drug Release. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 10524-34	9.5	86
83	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

82	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
81	Microfluidic fabrication of monodisperse microcapsules for glucose-response at physiological temperature. <i>Soft Matter</i> , 2013 , 9, 4150	3.6	74
80	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
79	Simple and cheap microfluidic devices for the preparation of monodisperse emulsions. <i>Lab on A Chip</i> , 2011 , 11, 3963-9	7.2	68
78	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
77	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
76	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
75	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
74	A novel thermo-induced self-bursting microcapsule with magnetic-targeting property. <i>ChemPhysChem</i> , 2009 , 10, 2405-9	3.2	59
73	Trojan-Horse-Like Stimuli-Responsive Microcapsules. <i>Advanced Science</i> , 2018 , 5, 1700960	13.6	57
72	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
71	Controllable microfluidic strategies for fabricating microparticles using emulsions as templates. <i>Particuology</i> , 2016 , 24, 18-31	2.8	43
70	Uniform Microparticles with Controllable Highly Interconnected Hierarchical Porous Structures. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 13758-67	9.5	43
69	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
68	Microfluidic generation of hollow Ca-alginate microfibers. <i>Lab on A Chip</i> , 2016 , 16, 2673-81	7.2	41
67	Designable Polymeric Microparticles from Droplet Microfluidics for Controlled Drug Release. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800687	6.8	41
66	Controllable Multicompartmental Capsules with Distinct Cores and Shells for Synergistic Release. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 8743-54	9.5	37
65	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

64	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
63	Smart gating membranes with in situ self-assembled responsive nanogels as functional gates. <i>Scientific Reports</i> , 2015 , 5, 14708	4.9 34
62	βCyclodextrin-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
61	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
60	Microfluidic approach for encapsulation via double emulsions. <i>Current Opinion in Pharmacology</i> , 2014 , 18, 35-41	5.1 29
59	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
58	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
57	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
56	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
55	Chitosan microcapsule membranes with nanoscale thickness for controlled release of drugs. <i>Journal of Membrane Science</i> , 2019 , 590, 117275	9.6 25
54	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
53	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
52	Facile Fabrication of Bubble-Propelled Micromotors Carrying Nanocatalysts for Water Remediation. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 4562-4570	3.9 21
51	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
50	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
49	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
48	Polymersomes with Rapid K-Triggered Drug-Release Behaviors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 19258-19268	9.5 19
47	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

46	Controllable Microfluidic Fabrication of Magnetic Hybrid Microswimmers with Hollow Helical Structures. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 9430-9438	3.9	19
45	Fabrication and flow characteristics of monodisperse bullet-shaped microparticles with controllable structures. <i>Chemical Engineering Journal</i> , 2019 , 370, 925-937	14.7	18
44	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
43	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
42	Bubble-Propelled Hierarchical Porous Micromotors from Evolved Double Emulsions. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 1590-1600	3.9	17
41	Smart hydrogels: Network design and emerging applications. <i>Canadian Journal of Chemical Engineering</i> , 2018 , 96, 2100-2114	2.3	16
40	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
39	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
38	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
37	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
36	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
35	Novel Smart Microreactors Equipped with Responsive Catalytic Nanoparticles on Microchannels. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 33137-33148	9.5	14
34	Controllable Microfluidic Fabrication of Microstructured Materials from Nonspherical Particles to Helices. <i>Macromolecular Rapid Communications</i> , 2017 , 38, 1700429	4.8	14
33	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
32	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
31	Nanostructured Thermoresponsive 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
30	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
29	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

28	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
27	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
26	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
25	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
24	Nanocomposite Hydrogels with Optic-Sonic Transparency and Hydroacoustic-Sensitive Conductivity for Potential Antiscouting Sonar. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20386-20393	9.5	9
23	Controllable Fabrication of Functional Microhelices with Droplet Microfluidics. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 46241-46250	9.5	9
22	K-Responsive Block Copolymer Micelles for Targeted Intracellular Drug Delivery. <i>Macromolecular Bioscience</i> , 2017 , 17, 1700143	5.5	8
21	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
20	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
19	Magnetic hierarchical porous SiO microparticles from droplet microfluidics for water decontamination. <i>Soft Matter</i> , 2020 , 16, 2581-2593	3.6	7
18	Continuous Synthesis of Nanodroplet-Templated, N-Doped Microporous Carbon Spheres in Microfluidic System for CO Capture. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 52571-52580	9.5	7
17	Smart microfluidic analogue of Wheatstone-bridge for real-time continuous detection with ultrasensitivity and wide dynamic range. <i>Chemical Engineering Journal</i> , 2021 , 407, 127138	14.7	7
16	Online monitoring of ethanol concentration using a responsive microfluidic membrane device. <i>Analytical Methods</i> , 2016 , 8, 4028-4036	3.2	6
15	Designable Micro-/Nano-Structured Smart Polymeric Materials.. <i>Advanced Materials</i> , 2021 , e2107877	24	5
14	Controllable microfluidic fabrication of microstructured functional materials. <i>Biomicrofluidics</i> , 2020 , 14, 061501	3.2	4
13	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
12	An injectable hydrogel to reverse the adverse microenvironment of diabetic infarcted heart. <i>Materialia</i> , 2021 , 15, 100957	3.2	4
11	GO/TiO ₂ -decorated electrospun polyvinylidene fluoride membrane prepared based on metal-polyphenol coordination network for oil/water separation and desalination. <i>Journal of Materials Science</i> , 2022 , 57, 3452-3467	4.3	3

10	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
9	Injectable Temperature/Glucose Dual-Responsive Hydrogels for Controlled Release of Insulin. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 8147-8158	3.9	3
8	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	3.8	3
7	Functional microparticles from multiscale regulation of multiphase emulsions for mass-transfer intensification. <i>Chemical Engineering Science</i> , 2021 , 231, 116242	4.4	3
6	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
5	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
4	Composite bilayer films with organic compound-triggered bending properties. <i>Chinese Journal of Chemical Engineering</i> , 2019 , 27, 2587-2595	3.2	2
3	The effect of particle size on the dynamics of self-electrophoretic Janus micromotors, sputtering distribution, and rectifying voltage. <i>Jcis Open</i> , 2022 , 5, 100046		1
2	Microfluidic fabrication of hydrogel microparticles with MOF-armoured multi-enzymes for cascade biocatalytic reactions. <i>Reaction Chemistry and Engineering</i> ,	4.9	1
1	Hierarchical porous metal-organic frameworks/polymer microparticles for enhanced catalytic degradation of organic contaminants. <i>Frontiers of Chemical Science and Engineering</i> ,1	4.5	0