

List of Publications by Year in descending order

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		57758	62596
119	7,166	44	80
papers	citations	h-index	g-index
124	124	124	8200
all docs	docs citations	times ranked	citing authors

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#	Article	IF	CITATIONS
1	Hydrogel machines. Materials Today, 2020, 36, 102-124.	14.2	625
2	Tough Supramolecular Polymer Networks with Extreme Stretchability and Fast Roomâ€Temperature Selfâ€Healing. Advanced Materials, 2017, 29, 1605325.	21.0	347
3	Muscle-like fatigue-resistant hydrogels by mechanical training. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 10244-10249.	7.1	318
4	Anti-fatigue-fracture hydrogels. Science Advances, 2019, 5, eaau8528.	10.3	305
5	Fast and Efficient CRISPR/Cas9 Genome Editing In Vivo Enabled by Bioreducible Lipid and Messenger RNA Nanoparticles. Advanced Materials, 2019, 31, e1902575.	21.0	244
6	3D printing of highly stretchable hydrogel with diverse UV curable polymers. Science Advances, 2021, 7, .	10.3	233
7	Gold Nanorods Coated with Mesoporous Silica Shell as Drug Delivery System for Remote Near Infrared Lightâ€Activated Release and Potential Phototherapy. Small, 2015, 11, 2323-2332.	10.0	213
8	Fatigue-resistant adhesion of hydrogels. Nature Communications, 2020, 11, 1071.	12.8	187
9	Biomimetic Supramolecular Polymer Networks Exhibiting both Toughness and Selfâ€Recovery. Advanced Materials, 2017, 29, 1604951.	21.0	185
10	Cucurbit[<i>n</i>]uril-Based Microcapsules Self-Assembled within Microfluidic Droplets: A Versatile Approach for Supramolecular Architectures and Materials. Accounts of Chemical Research, 2017, 50, 208-217.	15.6	181
11	Triphase Microfluidicâ€Directed Selfâ€Assembly: Anisotropic Colloidal Photonic Crystal Supraparticles and Multicolor Patterns Made Easy. Angewandte Chemie - International Edition, 2012, 51, 2375-2378.	13.8	177
12	Ingestible hydrogel device. Nature Communications, 2019, 10, 493.	12.8	168
13	Highâ€Performance Wearable Microâ€Supercapacitors Based on Microfluidicâ€Directed Nitrogenâ€Doped Graphene Fiber Electrodes. Advanced Functional Materials, 2017, 27, 1702493.	14.9	144
14	Mechanically Robust and UV urable Shapeâ€Memory Polymers for Digital Light Processing Based 4D Printing. Advanced Materials, 2021, 33, e2101298.	21.0	129
15	Poly(<i>N</i> â€vinylcaprolactam): A Thermoresponsive Macromolecule with Promising Future in Biomedical Field. Advanced Healthcare Materials, 2014, 3, 1941-1968.	7.6	119
16	Preparation and characterization of organic-soluble acetylated starch nanocrystals. Carbohydrate Polymers, 2010, 80, 1078-1084.	10.2	116
17	Anisotropically Fatigueâ€Resistant Hydrogels. Advanced Materials, 2021, 33, e2102011.	21.0	114
18	Bioinspired supramolecular fibers drawn from a multiphase self-assembled hydrogel. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8163-8168.	7.1	111

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19	Large-scale colloidal films with robust structural colors. Materials Horizons, 2019, 6, 90-96.	12.2	106
20	Interfacial assembly of dendritic microcapsules with host–guest chemistry. Nature Communications, 2014, 5, 5772.	12.8	101
21	Cucurbit[<i>n</i>]uril Supramolecular Hydrogel Networks as Tough and Healable Adhesives. Advanced Functional Materials, 2018, 28, 1800848.	14.9	98
22	Design of hybrid nanovehicles for remotely triggered drug release: an overview. Journal of Materials Chemistry B, 2015, 3, 6117-6147.	5.8	95
23	Supramolecularly Engineered Circular Bivalent Aptamer for Enhanced Functional Protein Delivery. Journal of the American Chemical Society, 2018, 140, 6780-6784.	13.7	91
24	Dynamic Interfacial Adhesion through Cucurbit[<i>n</i>]uril Molecular Recognition. Angewandte Chemie - International Edition, 2018, 57, 8854-8858.	13.8	83
25	A Covalent Black Phosphorus/Metal–Organic Framework Heteroâ€nanostructure for Highâ€Performance Flexible Supercapacitors. Angewandte Chemie - International Edition, 2021, 60, 10366-10374.	13.8	82
26	Supramolecular hydrogel microcapsules via cucurbit[8]uril host–guest interactions with triggered and UV-controlled molecular permeability. Chemical Science, 2015, 6, 4929-4933.	7.4	77
27	Synthesis of thermoâ€responsive poly(<i>N</i> â€vinylcaprolactam)â€containing block copolymers by cobaltâ€mediated radical polymerization. Journal of Polymer Science Part A, 2012, 50, 400-408.	2.3	75
28	In‣itu Encapsulation of Protein into Nanoscale Hydrogenâ€Bonded Organic Frameworks for Intracellular Biocatalysis. Angewandte Chemie - International Edition, 2021, 60, 22315-22321.	13.8	70
29	Heat-triggered drug release systems based on mesoporous silica nanoparticles filled with a maghemite core and phase-change molecules as gatekeepers. Journal of Materials Chemistry B, 2014, 2, 59-70.	5.8	68
30	Tough Hydrogel Bioadhesives for Sutureless Wound Sealing, Hemostasis and Biointerfaces. Advanced Functional Materials, 2022, 32, .	14.9	67
31	Bioinspired 2D Isotropically Fatigueâ€Resistant Hydrogels. Advanced Materials, 2022, 34, e2107106.	21.0	66
32	Chitin nanocrystals grafted with poly(3-hydroxybutyrate-co-3-hydroxyvalerate) and their effects on thermal behavior of PHBV. Carbohydrate Polymers, 2012, 87, 784-789.	10.2	65
33	Controlling Spatiotemporal Mechanics of Supramolecular Hydrogel Networks with Highly Branched Cucurbit[8]uril Polyrotaxanes. Advanced Functional Materials, 2018, 28, 1702994.	14.9	65
34	Hierarchical Selfâ€assembly of Discrete Metal–Organic Cages into Supramolecular Nanoparticles for Intracellular Protein Delivery. Angewandte Chemie - International Edition, 2021, 60, 5429-5435.	13.8	64
35	Gold nanorods coated with a thermo-responsive poly(ethylene glycol)-b-poly(N-vinylcaprolactam) corona as drug delivery systems for remotely near infrared-triggered release. Polymer Chemistry, 2014, 5, 799-813.	3.9	63
36	Triggerâ€Detachable Hydrogel Adhesives for Bioelectronic Interfaces. Advanced Functional Materials, 2021, 31, 2106446.	14.9	63

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37	Unexpected stability of aqueous dispersions of raspberry-like colloids. Nature Communications, 2018, 9, 3614.	12.8	57
38	Glucose-, pH- and thermo-responsive nanogels crosslinked by functional superparamagnetic maghemite nanoparticles as innovative drug delivery systems. Journal of Materials Chemistry B, 2014, 2, 1009.	5.8	53
39	Uniform fluorescent photonic crystal supraballs generated from nanocrystal-loaded hydrogel microspheres. Journal of Materials Chemistry, 2010, 20, 6182.	6.7	52
40	Supramolecular Nested Microbeads as Building Blocks for Macroscopic Selfâ€Healing Scaffolds. Angewandte Chemie - International Edition, 2018, 57, 3079-3083.	13.8	50
41	Distinguishing relaxation dynamics in transiently crosslinked polymeric networks. Polymer Chemistry, 2017, 8, 5336-5343.	3.9	49
42	Aqueous Polymer Selfâ€Assembly Based on Cucurbit[<i>n</i>]urilâ€Mediated Hostâ€Guest Interactions. Macromolecular Chemistry and Physics, 2016, 217, 319-332.	2.2	47
43	Biomimetic Supramolecular Fibers Exhibit Waterâ€Induced Supercontraction. Advanced Materials, 2018, 30, e1707169.	21.0	46
44	Supramolecular colloidosomes: fabrication, characterisation and triggered release of cargo. Chemical Communications, 2014, 50, 7048-7051.	4.1	45
45	Reversibly crosslinked thermo- and redox-responsive nanogels for controlled drug release. Polymer Chemistry, 2014, 5, 77-88.	3.9	44
46	Electrostatically Directed Selfâ€Assembly of Ultrathin Supramolecular Polymer Microcapsules. Advanced Functional Materials, 2015, 25, 4091-4100.	14.9	44
47	Spherical Colloidal Photonic Crystals with Selected Lattice Plane Exposure and Enhanced Color Saturation for Dynamic Optical Displays. ACS Applied Materials & Interfaces, 2019, 11, 42629-42634.	8.0	43
48	Label-Free Analysis and Sorting of Microalgae and Cyanobacteria in Microdroplets by Intrinsic Chlorophyll Fluorescence for the Identification of Fast Growing Strains. Analytical Chemistry, 2016, 88, 10445-10451.	6.5	42
49	Breath figure lithography for the construction of a hierarchical structure in sponges and their applications to oil/water separation. Journal of Materials Chemistry A, 2017, 5, 16369-16375.	10.3	42
50	Supramolecular polymer networks based on cucurbit[8]uril host–guest interactions as aqueous photo-rheological fluids. Polymer Chemistry, 2015, 6, 7652-7657.	3.9	41
51	Hydrogel Bioadhesives with Extreme Acidâ€Tolerance for Gastric Perforation Repairing. Advanced Functional Materials, 2022, 32, .	14.9	41
52	Granular hydrogels for 3D bioprinting applications. View, 2020, 1, 20200060.	5.3	39
53	Sub-5 nm single crystalline organic p–n heterojunctions. Nature Communications, 2021, 12, 2774.	12.8	39
54	Dynamic Interfacial Adhesion through Cucurbit[<i>n</i>]uril Molecular Recognition. Angewandte Chemie, 2018, 130, 8992-8996.	2.0	35

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55	Gold Nanorods with Phaseâ€Changing Polymer Corona for Remotely Nearâ€Infraredâ€Triggered Drug Release. Chemistry - an Asian Journal, 2014, 9, 275-288.	3.3	34
56	Poly(acrylic acid)-block-poly(vinyl alcohol) anchored maghemite nanoparticles designed for multi-stimuli triggered drug release. Nanoscale, 2013, 5, 11464.	5.6	33
57	Microfluidic Droplet-Facilitated Hierarchical Assembly for Dual Cargo Loading and Synergistic Delivery. ACS Applied Materials & Interfaces, 2016, 8, 8811-8820.	8.0	33
58	Dynamic intermolecular interactions through hydrogen bonding of water promote heat conduction in hydrogels. Materials Horizons, 2020, 7, 2936-2943.	12.2	33
59	Polyâ€Î³â€Glutamic Acid Microgelâ€Encapsulated Probiotics with Gastric Acid Resistance and Smart Inflammatory Factor Targeted Delivery Performance to Ameliorate Colitis. Advanced Functional Materials, 2022, 32, .	14.9	33
60	Spatially Controlled Supramolecular Polymerization of Peptide Nanotubes by Microfluidics. Angewandte Chemie - International Edition, 2020, 59, 6902-6908.	13.8	32
61	Bioinspired 3D Printing of Functional Materials by Harnessing Enzymeâ€Induced Biomineralization. Advanced Functional Materials, 2022, 32, .	14.9	32
62	Patterned Arrays of Supramolecular Microcapsules. Advanced Functional Materials, 2018, 28, 1800550.	14.9	31
63	Emerging Two-Dimensional Crystallization of Cucurbit[8]uril Complexes: From Supramolecular Polymers to Nanofibers. Journal of the American Chemical Society, 2019, 141, 14021-14025.	13.7	29
64	3D Printed Biocatalytic Living Materials with Dualâ€Network Reinforced Bioinks. Small, 2022, 18, e2104820.	10.0	29
65	Bioinspired hydrogel microfibres colour-encoded with colloidal crystals. Materials Horizons, 2019, 6, 1938-1943.	12.2	25
66	Thermo-responsive gold/poly(vinyl alcohol)-b-poly(N-vinylcaprolactam) core–corona nanoparticles as a drug delivery system. Polymer Chemistry, 2014, 5, 5289-5299.	3.9	24
67	Influence of treating parameters on thermomechanical properties of recycled epoxy-acid vitrimers. Soft Matter, 2020, 16, 1668-1677.	2.7	24
68	Droplet-based microfluidic analysis and screening of single plant cells. PLoS ONE, 2018, 13, e0196810.	2.5	23
69	Viscoelastic Hydrogel Microfibers Exploiting Cucurbit[8]uril Host–Guest Chemistry and Microfluidics. ACS Applied Materials & Interfaces, 2020, 12, 17929-17935.	8.0	23
70	Photonic Plasticines with Uniform Structural Colors, High Processability, and Selfâ€Healing Properties. Small, 2021, 17, e2007426.	10.0	23
71	Droplet-based microfluidic screening and sorting of microalgal populations for strain engineering applications. Algal Research, 2021, 56, 102293.	4.6	23
72	Dual-responsive supramolecular colloidal microcapsules from cucurbit[8]uril molecular recognition in microfluidic droplets. Polymer Chemistry, 2016, 7, 5996-6002.	3.9	22

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73	Catalytic polymeric nanocomposites via cucurbit[n]uril host–guest interactions. Nanoscale, 2015, 7, 13416-13419.	5.6	20
74	Toward a versatile toolbox for cucurbit[<i>n</i>]urilâ€based supramolecular hydrogel networks through <i>in situ</i> polymerization. Journal of Polymer Science Part A, 2017, 55, 3105-3109.	2.3	20
75	Structural Design of Robust and Biocompatible Photonic Hydrogels from an In Situ Cross-Linked Hyperbranched Polymer System. Chemistry of Materials, 2018, 30, 6091-6098.	6.7	20
76	Selective RNA interference and gene silencing using reactive oxygen species-responsive lipid nanoparticles. Chemical Communications, 2019, 55, 8170-8173.	4.1	20
77	Acoustic-Controlled Bubble Generation and Fabrication of 3D Polymer Porous Materials. ACS Applied Materials & amp; Interfaces, 2020, 12, 22318-22326.	8.0	20
78	Tetraphenylethyleneâ€Featured Fluorescent Supramolecular Nanoparticles for Intracellular Trafficking of Protein Delivery and Neuroprotection. Angewandte Chemie - International Edition, 2021, 60, 26740-26746.	13.8	19
79	Robust Hydrogel Adhesion by Harnessing Bioinspired Interfacial Mineralization. Small, 2022, 18, .	10.0	19
80	Synthesis, crystallization and hydrolysis of aromatic–aliphatic copolyester: Poly(trimethylene) Tj ETQq0 0 0 rgB	T /Overloc	k 10 Tf 50 46
81	Surfaceâ€Bound Cucurbit[8]uril Catenanes on Magnetic Nanoparticles Exhibiting Molecular Recognition. Chemistry - an Asian Journal, 2016, 11, 2382-2386.	3.3	15
82	One-step synthesis of nitrogen-doped multi-emission carbon dots and their fluorescent sensing in HClO and cellular imaging. Mikrochimica Acta, 2021, 188, 330.	5.0	15

83	A Click Approach to Chiralâ€Đendronized Polyfluorene Derivatives. Macromolecular Rapid Communications, 2007, 28, 2249-2255.	3.9	14
84	Droplet microfluidics on analysis of pathogenic microbes for wastewater-based epidemiology. TrAC - Trends in Analytical Chemistry, 2021, 143, 116333.	11.4	14
85	Fabrication of quantum dot-based photonic materials from small to large via interfacial self-assembly. Journal of Materials Chemistry, 2011, 21, 8496.	6.7	13
86	In‣itu Encapsulation of Protein into Nanoscale Hydrogenâ€Bonded Organic Frameworks for Intracellular Biocatalysis. Angewandte Chemie, 2021, 133, 22489-22495.	2.0	13
87	Hierarchical Selfâ€assembly of Discrete Metal–Organic Cages into Supramolecular Nanoparticles for Intracellular Protein Delivery. Angewandte Chemie, 2021, 133, 5489-5495.	2.0	13
88	Injectable Granular Hydrogels as Colloidal Assembly Microreactors for Customized Structural Colored Objects. Angewandte Chemie - International Edition, 2022, 61, .	13.8	13
89	A Novel Aromaticâ ^{~,} Aliphatic Copolyester of Poly(ethylene- <i>co</i> -diethylene) Tj ETQq1 1 0.784314 rgBT /Overl & Engineering Chemistry Research, 2010, 49, 9803-9810.	ock 10 Tf 3.7	50 107 Td 12

90Cucurbit[8]urilâ€Regulated Colloidal Dispersions Exhibiting Photocontrolled Rheological Behavior.10.01290Small, 2018, 14, e1703352.10.012

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91	Integration of Palladium Nanoparticles with Surface Engineered Metal–Organic Frameworks for Cell-Selective Bioorthogonal Catalysis and Protein Activity Regulation. ACS Applied Materials & Interfaces, 2022, 14, 10117-10124.	8.0	12
92	Visibleâ€Light Facilitated Fluorescence "Switchâ€On―Labelling of 5â€Formylpyrimidine RNA. Advanced Synthesis and Catalysis, 2019, 361, 5406-5411.	4.3	11
93	Displacement Induced Off–On Fluorescent Biosensor Targeting IDO1 Activity in Live Cells. Analytical Chemistry, 2019, 91, 14943-14950.	6.5	11
94	Spatially Controlled Supramolecular Polymerization of Peptide Nanotubes by Microfluidics. Angewandte Chemie, 2020, 132, 6969-6975.	2.0	11
95	A Covalent Black Phosphorus/Metal–Organic Framework Heteroâ€nanostructure for Highâ€Performance Flexible Supercapacitors. Angewandte Chemie, 2021, 133, 10454-10462.	2.0	11
96	Surface-immobilised micelles via cucurbit[8]uril-rotaxanes for solvent-induced burst release. Chemical Communications, 2015, 51, 4858-4860.	4.1	10
97	Emerging Applications of 3D Printing in Biomanufacturing. Trends in Biotechnology, 2021, 39, 1114-1116.	9.3	10
98	Supracolloidal Architectures Selfâ€Assembled in Microdroplets. Chemistry - A European Journal, 2015, 21, 15516-15519.	3.3	9
99	Polymeric raspberry-like particles <i>via</i> template-assisted polymerisation. Polymer Chemistry, 2019, 10, 3772-3777.	3.9	9
100	Construction of core–shell microcapsules <i>via</i> focused surface acoustic wave microfluidics. Lab on A Chip, 2020, 20, 3104-3108.	6.0	9
101	Microdroplets confined assembly of opal composites in dynamic borate ester-based networks. Chemical Engineering Journal, 2021, 426, 127581.	12.7	9
102	Biaxially Morphing Droplet Shape by an Active Surface. Advanced Materials Interfaces, 2021, 8, 2001199.	3.7	9
103	Materialâ€mediated cell immobilization technology in the biological fermentation proces. Biofuels, Bioproducts and Biorefining, 2021, 15, 1160-1173.	3.7	9
104	Reactive Oxygen Species─Responsive Lipid Nanoparticles for Effective RNAi and Corneal Neovascularization Therapy. ACS Applied Materials & Interfaces, 2022, 14, 17022-17031.	8.0	9
105	Highly selective generation of singlet oxygen from dioxygen with atomically dispersed catalysts. Chemical Science, 2022, 13, 5606-5615.	7.4	9
106	Synthesis of poly(ethylene adipate-co-l-lactic acid) copolymers via ring opening polymerization. Polymer Bulletin, 2011, 66, 187-197.	3.3	8
107	Spatially and Reversibly Actuating Soft Gel Structure by Harnessing Multimode Elastic Instabilities. ACS Applied Materials & Interfaces, 2021, 13, 36361-36369.	8.0	8
108	Cucurbit[7]uril-based high-performance catalytic microreactors. Nanoscale, 2018, 10, 14835-14839.	5.6	7

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109	Online Handwritten Mongolian Word Recognition Using MWRCNN and Position Maps. , 2016, , .		6
110	Supramolecular Nested Microbeads as Building Blocks for Macroscopic Selfâ€Healing Scaffolds. Angewandte Chemie, 2018, 130, 3133-3137.	2.0	6
111	Sessile Microdropletâ€Based Writing Board for Patterning of Structural Colored Hydrogels. Advanced Materials Interfaces, 2021, 8, 2001201.	3.7	6
112	Facile Synthesis of Chiral Diphosphine ontaining Multiple Dendrimeric Catalysts for Enantioselective Hydrogenation. Chinese Journal of Chemistry, 2012, 30, 2009-2015.	4.9	4
113	Single-Cell Analysis Identifies Thymic Maturation Delay in Growth-Restricted Neonatal Mice. Frontiers in Immunology, 2018, 9, 2523.	4.8	4
114	Microfluidic encapsulation of supramolecular optical chemosensors for high-throughput analysis and screening. Sensors and Actuators B: Chemical, 2022, 355, 131302.	7.8	3
115	Bioinspired 2D Isotropically Fatigueâ€Resistant Hydrogels (Adv. Mater. 8/2022). Advanced Materials, 2022, 34, .	21.0	2
116	DNAzymeâ€Catalyzed Cellular Oxidative Stress Amplification for Proâ€protein Activation in Living Cells. ChemBioChem, 2021, 22, 2608-2613.	2.6	1
117	Injectable Granular Hydrogels as Colloidal Assembly Microreactors for Customized Structural Colored Objects. Angewandte Chemie, 2022, 134, .	2.0	1
118	Wearable Devices: Highâ€Performance Wearable Micro‧upercapacitors Based on Microfluidicâ€Directed Nitrogenâ€Doped Graphene Fiber Electrodes (Adv. Funct. Mater. 36/2017). Advanced Functional Materials, 2017, 27, .	14.9	0
119	Shapeâ€Memory Polymers: Mechanically Robust and UVâ€Curable Shapeâ€Memory Polymers for Digital Light Processing Based 4D Printing (Adv. Mater. 27/2021). Advanced Materials, 2021, 33, 2170210.	21.0	0