

Yunhua Chen

List of Publications by Year in descending order

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78
papers

3,197
citations

117625

34
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161849

54
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79
all docs

79
docs citations

79
times ranked

4191
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering air-in-water emulsion as adaptable multifunctional sealant. <i>Chemical Engineering Journal</i> , 2022, 429, 132200.	12.7	8
2	Hierarchical porous aero-cryogels for wind energy enhanced solar vapor generation. <i>Cellulose</i> , 2022, 29, 953-966.	4.9	8
3	Macroporous Adhesive Nano-enabled Hydrogels Generated from Air-in-Water Emulsions. <i>Macromolecular Bioscience</i> , 2022, 22, e2100491.	4.1	9
4	Upper Critical Solution Temperature Polyvalent Scaffolds Aggregate and Exterminate Bacteria. <i>Small</i> , 2022, 18, e2107374.	10.0	6
5	Upper Critical Solution Temperature Polyvalent Scaffolds Aggregate and Exterminate Bacteria (Small) Tj ETQq1 1 0,784314 rgBT /Ove	10.0	6
6	Shape-Recoverable Macroporous Nanocomposite Hydrogels Created via Ice Templating Polymerization for Noncompressible Wound Hemorrhage. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 2076-2087.	5.2	5
7	Periostin Attenuates Cyclophosphamide-induced Bladder Injury by Promoting Urothelial Stem Cell Proliferation and Macrophage Polarization. <i>Stem Cells Translational Medicine</i> , 2022, 11, 659-673.	3.3	6
8	Multifunction Hybrid Aerogel Capable of Reducing Silver Ions during Solar-Driven Interfacial Evaporation. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 7463-7472.	6.7	11
9	Natural Dual-crosslinked Self-healing Hydrogels for In Situ Wound Healing. <i>Macromolecular Materials and Engineering</i> , 2022, 307, .	3.6	2
10	Fusion peptide engineered electrostatically-versatile titanium implant simultaneously enhancing anti-infection, vascularization and osseointegration. <i>Biomaterials</i> , 2021, 264, 120446.	11.4	52
11	Cellulose nanofibrils-based hybrid foam generated from Pickering emulsion toward high-performance microwave absorption. <i>Carbohydrate Polymers</i> , 2021, 255, 117333.	10.2	33
12	Simple Hierarchical Interface Design Strategy for Accelerating Solar Evaporation. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2000640.	3.6	18
13	Antibacterial peptide-modified collagen nanosheet for infected wound repair. <i>Smart Materials in Medicine</i> , 2021, 2, 172-181.	6.7	30
14	Fabrication of Cellulose Nanofiber/Reduced Graphene Oxide/Nitrile Rubber Flexible Films Using Pickering Emulsion Technology for Electromagnetic Interference Shielding and Piezoresistive Sensor. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2100070.	3.6	21
15	Injectable Supramolecular Hydrogel for Locoregional Immune Checkpoint Blockade and Enhanced Cancer Chemo-Immunotherapy. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 33874-33884.	8.0	38
16	Pickering emulsion strategy for high compressive carbon aerogel as lightweight electromagnetic interference shielding material and flexible pressure sensor. <i>Ceramics International</i> , 2021, 47, 23433-23443.	4.8	21
17	Dynamical heterogeneity in the gelation process of a polymer solution with a lower critical solution temperature. <i>Soft Matter</i> , 2021, 17, 3222-3233.	2.7	2
18	Visualizing phase transition of upper critical solution temperature (UCST) polymers with AIE. <i>Science China Chemistry</i> , 2021, 64, 403-407.	8.2	19

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19	Biomimetic cartilage-lubricating polymers regenerate cartilage in rats with early osteoarthritis. <i>Nature Biomedical Engineering</i> , 2021, 5, 1189-1201.	22.5	67
20	Multifunctional carbon foam with hollow microspheres and a concave-convex microstructure for adjustable electromagnetic wave absorption and wearable applications. <i>Journal of Materials Chemistry A</i> , 2021, 9, 25982-25998.	10.3	19
21	Self-Stabilized and Strongly Adhesive Supramolecular Polymer Protective Layer Enables Ultrahigh-Rate and Large-Capacity Lithium-Metal Anode. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 2055-2060.	13.8	204
22	Self-Stabilized and Strongly Adhesive Supramolecular Polymer Protective Layer Enables Ultrahigh-Rate and Large-Capacity Lithium-Metal Anode. <i>Angewandte Chemie</i> , 2020, 132, 2071-2076.	2.0	39
23	Molecular recognition-directed site-specific release of stem cell differentiation inducers for enhanced joint repair. <i>Biomaterials</i> , 2020, 232, 119644.	11.4	45
24	On-demand storage and release of antimicrobial peptides using Pandora's box-like nanotubes gated with a bacterial infection-responsive polymer. <i>Theranostics</i> , 2020, 10, 109-122.	10.0	68
25	Novel Nanocellulose/Polymer Composite Aerogel as Solid-State Fluorescence Probe by Pickering Emulsion Route. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 2000467.	3.6	12
26	Robust cellulose nanofibrils reinforced poly(methyl methacrylate)/polystyrene binary blend composites with pebble-shaped structure using Pickering emulsion gel. <i>Polymers for Advanced Technologies</i> , 2020, 31, 2676-2686.	3.2	4
27	Conductive and antimicrobial macroporous nanocomposite hydrogels generated from air-in-water Pickering emulsions for neural stem cell differentiation and skin wound healing. <i>Biomaterials Science</i> , 2020, 8, 6957-6968.	5.4	31
28	Cellulose Nanofibril-Stabilized Pickering Emulsion and In Situ Polymerization Lead to Hybrid Aerogel for High-Efficiency Solar Steam Generation. <i>ACS Applied Polymer Materials</i> , 2020, 2, 4581-4591.	4.4	53
29	Wet-adhesive, haemostatic and antimicrobial bilayered composite nanosheets for sealing and healing soft-tissue bleeding wounds. <i>Biomaterials</i> , 2020, 252, 120018.	11.4	62
30	One-pot quaternization of dual-responsive poly(vinyl alcohol) with AIEgens for pH-switchable imaging and killing of bacteria. <i>Materials Chemistry Frontiers</i> , 2020, 4, 2635-2645.	5.9	10
31	Integrin-binding pro-survival peptide engineered silk fibroin nanosheets for diabetic wound healing and skin regeneration. <i>Chemical Engineering Journal</i> , 2020, 398, 125617.	12.7	21
32	Engineering natural matrices with black phosphorus nanosheets to generate multi-functional therapeutic nanocomposite hydrogels. <i>Biomaterials Science</i> , 2019, 7, 4046-4059.	5.4	65
33	Responsive Polypseudorotaxane Hydrogels Triggered by a Compatible Stimulus of CO ₂ . <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1900071.	2.2	6
34	AIE-Active and Thermoresponsive Alternating Polyurethanes of Bile Acid and PEG for Cell Imaging. <i>ACS Applied Polymer Materials</i> , 2019, 1, 2973-2980.	4.4	13
35	Transparent and strong polymer nanocomposites generated from Pickering emulsion gels stabilized by cellulose nanofibrils. <i>Carbohydrate Polymers</i> , 2019, 224, 115202.	10.2	32
36	Glycopolymers Made from Polyrotaxanes Terminated with Bile Acids: Preparation, Self-Assembly, and Targeting Delivery. <i>Macromolecular Bioscience</i> , 2019, 19, e1800478.	4.1	4

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37	3D-printable self-healing and mechanically reinforced hydrogels with host-guest non-covalent interactions integrated into covalently linked networks. <i>Materials Horizons</i> , 2019, 6, 733-742.	12.2	148
38	Progress in self-healing hydrogels assembled by host-guest interactions: preparation and biomedical applications. <i>Journal of Materials Chemistry B</i> , 2019, 7, 1637-1651.	5.8	93
39	Air-Water Emulsion Solely Stabilized by Gelatin Methacryloyl and Templating for Macroporous Nanocomposite Hydrogels. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1800500.	2.2	8
40	Quadruple hydrogen bonds and thermo-triggered hydrophobic interactions generate dynamic hydrogels to modulate transplanted cell retention. <i>Biomaterials Science</i> , 2019, 7, 1286-1298.	5.4	36
41	Melatonin decorated 3D-printed beta-tricalcium phosphate scaffolds promoting bone regeneration in a rat calvarial defect model. <i>Journal of Materials Chemistry B</i> , 2019, 7, 3250-3259.	5.8	15
42	Supramolecular and dynamic covalent hydrogel scaffolds: from gelation chemistry to enhanced cell retention and cartilage regeneration. <i>Journal of Materials Chemistry B</i> , 2019, 7, 6705-6736.	5.8	59
43	Weak Hydrogen Bonds Lead to Self-Healable and Bioadhesive Hybrid Polymeric Hydrogels with Mineralization-Active Functions. <i>Biomacromolecules</i> , 2018, 19, 1939-1949.	5.4	49
44	PMMA@SCNC composite microspheres prepared from pickering emulsion template as curcumin delivery carriers. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46127.	2.6	22
45	Antimicrobial colloidal hydrogels assembled by graphene oxide and thermo-sensitive nanogels for cell encapsulation. <i>Journal of Colloid and Interface Science</i> , 2018, 513, 314-323.	9.4	30
46	Temperature-Controlled Reversible Exposure and Hiding of Antimicrobial Peptides on an Implant for Killing Bacteria at Room Temperature and Improving Biocompatibility in Vivo. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 35830-35837.	8.0	34
47	A Rapidly Self-Healing Host-Guest Supramolecular Hydrogel with High Mechanical Strength and Excellent Biocompatibility. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9008-9012.	13.8	149
48	A Rapidly Self-Healing Host-Guest Supramolecular Hydrogel with High Mechanical Strength and Excellent Biocompatibility. <i>Angewandte Chemie</i> , 2018, 130, 9146-9150.	2.0	36
49	A Quadruple-Hydrogen-Bonded Supramolecular Binder for High-Performance Silicon Anodes in Lithium-Ion Batteries. <i>Small</i> , 2018, 14, e1801189.	10.0	171
50	Multi-stage hydrogel rockets with stage dropping-off by thermal/light stimulation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16838-16843.	10.3	16
51	Graphene Oxide Hybrid Supramolecular Hydrogels with Self-Healable, Bioadhesive and Stimuli-Responsive Properties and Drug Delivery Application. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1700660.	3.6	42
52	Thermal and frictional properties of mesoporous silica SBA-15/phenolic resin nanocomposites. <i>Polymer Composites</i> , 2017, 38, E351.	4.6	12
53	Dynamic Supramolecular Hydrogels: Regulating Hydrogel Properties through Self-Complementary Quadruple Hydrogen Bonds and Thermo-Switch. <i>ACS Macro Letters</i> , 2017, 6, 641-646.	4.8	90
54	High internal phase emulsions stabilised by supramolecular cellulose nanocrystals and their application as cell-adhesive macroporous hydrogel monoliths. <i>Journal of Materials Chemistry B</i> , 2017, 5, 2671-2678.	5.8	107

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55	A Triblock Copolymer Design Leads to Robust Hybrid Hydrogels for High-Performance Flexible Supercapacitors. ACS Applied Materials & Interfaces, 2017, 9, 36301-36310.	8.0	34
56	Transportation and release of Janus micromotors by two-stage rocket hydrogel. Journal of Materials Chemistry A, 2017, 5, 18442-18447.	10.3	14
57	Hierarchical and reversible assembly of graphene oxide/polyvinyl alcohol hybrid stabilized Pickering emulsions and their templating for macroporous composite hydrogels. Carbon, 2017, 111, 38-47.	10.3	46
58	Facile fabrication of versatile PMMA/CNF@NaYF ₄ :Yb/Er composite microspheres by Pickering emulsion system. Materials Letters, 2016, 166, 55-58.	2.6	17
59	Study of Pickering emulsion stabilized by sulfonated cellulose nanowhiskers extracted from sisal fiber. Colloid and Polymer Science, 2015, 293, 963-974.	2.1	27
60	Synthesis of "Hard-Soft" Janus Particles by Seeded Dispersion Polymerization. Langmuir, 2014, 30, 13525-13532.	3.5	46
61	Facile Preparation of Core-Shell Nanocomposite Microgels. Journal of Macromolecular Science - Physics, 2014, 53, 52-66.	1.0	1
62	Dynamic control of volume phase transitions of poly(<i>N</i> -isopropylacrylamide) based microgels in water using hydrazide-aldehyde chemistry. Journal of Polymer Science Part A, 2014, 52, 1745-1754.	2.3	10
63	Hierarchical self-assembly of "hard-soft" Janus particles into colloidal molecules and larger supracolloidal structures. Soft Matter, 2014, 10, 7730-7735.	2.7	54
64	Multicompartmental Janus Microbeads from Branched Polymers by Single-Emulsion Droplet Microfluidics. Langmuir, 2013, 29, 12657-12662.	3.5	35
65	Waterborne polymer nanogels non-covalently crosslinked by multiple hydrogen bond arrays. Polymer Chemistry, 2013, 4, 387-392.	3.9	27
66	Moldable high internal phase emulsion hydrogel objects from non-covalently crosslinked poly(<i>N</i> -isopropylacrylamide) nanogel dispersions. Chemical Communications, 2013, 49, 1524.	4.1	64
67	High internal phase emulsion gels (HIPE-gels) from polymer dispersions reinforced with quadruple hydrogen bond functionality. Chemical Communications, 2012, 48, 1117-1119.	4.1	59
68	Multiple Hydrogen-Bond Array Reinforced Cellular Polymer Films from Colloidal Crystalline Assemblies of Soft Latex Particles. ACS Macro Letters, 2012, 1, 603-608.	4.8	20
69	Preparation of Colloidosome Microcapsules Based on Particle Stabilized Photo-Crosslinkable Pickering Emulsions. Acta Chimica Sinica, 2012, 70, 1721.	1.4	6
70	Magnetic hydrogels with supracolloidal structures prepared by suspension polymerization stabilized by Fe ₂ O ₃ nanoparticles. Acta Biomaterialia, 2010, 6, 275-281.	8.3	100
71	Dual nanocomposite multihollow polymer microspheres prepared by suspension polymerization based on a multiple pickering emulsion. Polymer Chemistry, 2010, 1, 75-77.	3.9	42
72	One-pot fabrication of magnetic nanocomposite microcapsules. Materials Letters, 2009, 63, 884-886.	2.6	33

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73	Facile fabrication of nanocomposite microspheres with polymer cores and magnetic shells by Pickering suspension polymerization. <i>Reactive and Functional Polymers</i> , 2009, 69, 750-754.	4.1	78
74	Growth of lightly crosslinked PHEMA brushes and capsule formation using pickering emulsion interface-initiated ATRP. <i>Journal of Polymer Science Part A</i> , 2009, 47, 1354-1367.	2.3	61
75	Facile fabrication of well-defined hydrogel beads with magnetic nanocomposite shells. <i>International Journal of Pharmaceutics</i> , 2009, 376, 92-98.	5.2	49
76	Suspension polymerization based on inverse Pickering emulsion droplets for thermo-sensitive hybrid microcapsules with tunable supracolloidal structures. <i>Polymer</i> , 2009, 50, 2587-2594.	3.8	91
77	Fabrication of novel core-shell hybrid alginate hydrogel beads. <i>International Journal of Pharmaceutics</i> , 2008, 351, 104-112.	5.2	83
78	Facile Fabrication of Hybrid Colloidosomes with Alginate Gel Cores and Shells of Porous CaCO ₃ Microparticles. <i>ChemPhysChem</i> , 2007, 8, 1157-1160.	2.1	39