Yanyu Yang

List of Publications by Year in descending order

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48 papers	3,657 citations	186265 28 h-index	206112 48 g-index
48 all docs	48 docs citations	48 times ranked	3585 citing authors

#	Article	IF	Citations
1	A Universal Soaking Strategy to Convert Composite Hydrogels into Extremely Tough and Rapidly Recoverable Doubleâ€Network Hydrogels. Advanced Materials, 2016, 28, 7178-7184.	21.0	492
2	Flame-retardant poly(vinyl alcohol)/MXene multilayered films with outstanding electromagnetic interference shielding and thermal conductive performances. Chemical Engineering Journal, 2020, 380, 122475.	12.7	426
3	Highly Elastic and Ultratough Hybrid Ionicâ€“Covalent Hydrogels with Tunable Structures and Mechanics. Advanced Materials, 2018, 30, e1707071.	21.0	306
4	Anti-freezing, resilient and tough hydrogels for sensitive and large-range strain and pressure sensors. Chemical Engineering Journal, 2021, 403, 126431.	12.7	215
5	Air-permeable, multifunctional, dual-energy-driven MXene-decorated polymeric textile-based wearable heaters with exceptional electrothermal and photothermal conversion performance. Journal of Materials Chemistry A, 2020, 8, 12526-12537.	10.3	203
6	Freezing-Tolerant, Highly Sensitive Strain and Pressure Sensors Assembled from Ionic Conductive Hydrogels with Dynamic Cross-Links. ACS Applied Materials & Interfaces, 2020, 12, 25334-25344.	8.0	189
7	Multifunctional MXene-Based Fireproof Electromagnetic Shielding Films with Exceptional Anisotropic Heat Dissipation Capability and Joule Heating Performance. ACS Applied Materials & Interfaces, 2020, 12, 27350-27360.	8.0	157
8	Ti₃C₂T_x MXene-Decorated Nanoporous Polyethylene Textile for Passive and Active Personal Precision Heating. ACS Nano, 2021, 15, 11396-11405.	14.6	141
9	Ultrathin Titanium Carbide (MXene) Films for Highâ€Temperature Thermal Camouflage. Advanced Functional Materials, 2021, 31, 2101381.	14.9	118
10	Fabrication of pH-Responsive Nanoparticles with an AIE Feature for Imaging Intracellular Drug Delivery. Biomacromolecules, 2016, 17, 2920-2929.	5.4	111
11	Bioreducible POSS-Cored Star-Shaped Polycation for Efficient Gene Delivery. ACS Applied Materials & Interfaces, 2014, 6, 1044-1052.	8.0	99
12	Facile Construction of pH- and Redox-Responsive Micelles from a Biodegradable Poly(Î²-hydroxyl amine) for Drug Delivery. Biomacromolecules, 2016, 17, 291-300.	5.4	86
13	Advancements and Frontiers in the High Performance of Natural Hydrogels for Cartilage Tissue Engineering. Frontiers in Chemistry, 2020, 8, 53.	3.6	82
14	Dynamic and programmable morphology and size evolution via a living hierarchical self-assembly strategy. Nature Communications, 2018, 9, 2772.	12.8	67
15	Construction of Tough, in Situ Forming Double-Network Hydrogels with Good Biocompatibility. ACS Applied Materials & Interfaces, 2017, 9, 2205-2212.	8.0	66
16	A multi-model, large range and anti-freezing sensor based on a multi-crosslinked poly(vinyl alcohol) hydrogel for human-motion monitoring. Journal of Materials Chemistry B, 2020, 8, 11010-11020.	5.8	66
17	Facile creation of FRET systems from a pH-responsive AIE fluorescent vesicle. Chemical Communications, 2016, 52, 5320-5323.	4.1	60
18	Fabrication of multi-stimuli responsive supramolecular hydrogels based on hostâ€“guest inclusion complexation of a tadpole-shaped cyclodextrin derivative with the azobenzene dimer. Polymer Chemistry, 2017, 8, 3901-3909.	3.9	60

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19	New application of MXene in polymer composites toward remarkable anti-dripping performance for flame retardancy. Composites Part A: Applied Science and Manufacturing, 2019, 127, 105649.	7.6	60
20	POSS dendrimers constructed from a 1 â†' 7 branching monomer. Chemical Communications, 2014, 50, 6126.	4.1	51
21	Synthesis, Self-Assembly, and Photoresponsive Behavior of Tadpole-Shaped Azobenzene Polymers. ACS Macro Letters, 2015, 4, 1321-1326.	4.8	49
22	Robust, anti-freezing and conductive bonding of chitosan-based double-network hydrogels for stable-performance flexible electronic. Carbohydrate Polymers, 2022, 276, 118753.	10.2	46
23	Long-term delivery of alendronate through an injectable tetra-PEG hydrogel to promote osteoporosis therapy. Biomaterials Science, 2020, 8, 3138-3146.	5.4	44
24	Acid-Labile Poly(glycidyl methacrylate)-Based Star Gene Vectors. ACS Applied Materials & Interfaces, 2015, 7, 12238-12248.	8.0	41
25	Synthesis and self-assembly behavior of POSS-embedded hyperbranched polymers. Chemical Communications, 2015, 51, 8296-8299.	4.1	41
26	POSS-based supramolecular amphiphilic zwitterionic complexes for drug delivery. Biomaterials Science, 2019, 7, 1984-1994.	5.4	37
27	Current Trends of Targeted Drug Delivery for Oral Cancer Therapy. Frontiers in Bioengineering and Biotechnology, 2020, 8, 618931.	4.1	36
28	pH-triggered decomposition of polymeric fluorescent vesicles to induce growth of tetraphenylethylene nanoparticles for long-term live cell imaging. Polymer, 2017, 118, 75-84.	3.8	31
29	Editorial: Smart Hydrogels in Tissue Engineering and Regenerative Medicine. Frontiers in Chemistry, 2020, 8, 245.	3.6	31
30	Facile preparation of pH-responsive AIE-active POSS dendrimers for the detection of trivalent metal cations and acid gases. Polymer Chemistry, 2016, 7, 6432-6436.	3.9	28
31	A mechanically robust all-solid-state supercapacitor based on a highly conductive double-network hydrogel electrolyte and Ti₃C₂T_x MXene electrode with anti-freezing property. Journal of Materials Chemistry A, 2021, 9, 25073-25085.	10.3	25
32	POSS-embedded supramolecular hyperbranched polymers constructed from a 1â†'7 branching monomer with controllable morphology transitions. Science China Chemistry, 2018, 61, 311-318.	8.2	24
33	Multifunctional AgNW@MXene decorated polymeric textile for highly-efficient electro-/photothermal conversion and triboelectric nanogenerator. Composites Part A: Applied Science and Manufacturing, 2022, 156, 106883.	7.6	21
34	Highly toughened PA6 using residue of plasticized PVB film via two-step reactive melt blending. Polymer, 2020, 186, 122052.	3.8	18
35	A facile rheological approach for the determination of â€œsuper toughness pointâ€•of nylon1212/POE-g-MAH/MWCNT nanocomposites. Composites Science and Technology, 2019, 177, 73-80.	7.8	16
36	A facile rheological approach for the evaluation of â€œsuper toughness pointâ€•of compatibilized HDPE / MWCNT nanocomposites. Polymer Testing, 2020, 81, 106280.	4.8	14

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37	Chitosan-Based High-Mechanical Double-Network Hydrogels: Construction, Modulation and Applications. Acta Chimica Sinica, 2021, 79, 1.	1.4	13
38	One-pot synthesis of bio-functionally water-soluble POSS derivatives via efficient click chemistry methodology. Reactive and Functional Polymers, 2019, 140, 103-110.	4.1	12
39	Treated dentin matrix induces odontogenic differentiation of dental pulp stem cells via regulation of Wnt/Î²-catenin signaling. Bioactive Materials, 2022, 7, 85-97.	15.6	12
40	A Robust Strategy for Precise Fabrication of Rigidâ€“Flexible Coupling Dendrimers toward Self-Coordinated Hierarchical Assembly. CCS Chemistry, 2021, 3, 1093-1104.	7.8	11
41	<scp>Energyâ€Dissipative</scp> and Soften Resistant Hydrogels Based on Chitosan Physical Network: From Construction to Application. Chinese Journal of Chemistry, 2022, 40, 2118-2134.	4.9	11
42	Advance in Drug Delivery for Ageing Skeletal Muscle. Frontiers in Pharmacology, 2020, 11, 1016.	3.5	9
43	An efficient water-assisted liquid exfoliation of layered MXene (Ti3C2Tx) by rationally matching Hansen solubility parameter and surface tension. Journal of Molecular Liquids, 2021, 324, 115116.	4.9	9
44	A Highly Mechanical, Conductive, and Cryophylactic Double Network Hydrogel for Flexible and Low-Temperature Tolerant Strain Sensors. Gels, 2022, 8, 424.	4.5	8
45	Reactive Nano-Fe3O4 compatibilized magnetic super-tough PA1212/POE-g-MAH composites with a filler-network structure. Composites Science and Technology, 2021, 202, 108561.	7.8	7
46	Improved mechanical properties of in situ microfibrillar polypropylene/polyamide6 composites through constructing strong interfacial adhesion. Polymers for Advanced Technologies, 2021, 32, 3343-3357.	3.2	5
47	Magnetic polypropylene composites with selectively localized reactive nano-Fe3O4 in toughener of POE-g-MAH: Towards super toughness, high flexibility and balanced strength. Materials and Design, 2022, 217, 110607.	7.0	2
48	Toward Largely Enhanced Toughness and Balanced Strength in PA1012/EPDM Blends via Synergistic Effect of Sacrificial Bonds and Network Structure. Macromolecular Materials and Engineering, 2021, 306, 2000813.	3.6	1