

Jianhai Yang

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

4,945
citations

279798

23
h-index

289244

40
g-index

40
all docs

40
docs citations

40
times ranked

7524
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-healing gels based on constitutional dynamic chemistry and their potential applications. <i>Chemical Society Reviews</i> , 2014, 43, 8114-8131.	38.1	733
2	Nano-carrier for gene delivery and bioimaging based on carbon dots with PEI-passivation enhanced fluorescence. <i>Biomaterials</i> , 2012, 33, 3604-3613.	11.4	664
3	Novel Biocompatible Polysaccharide-Based Self-Healing Hydrogel. <i>Advanced Functional Materials</i> , 2015, 25, 1352-1359.	14.9	526
4	Strengthening Alginate/Polyacrylamide Hydrogels Using Various Multivalent Cations. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 10418-10422.	8.0	520
5	Tough Al-alginate/Poly(<i>N</i> -isopropylacrylamide) Hydrogel with Tunable LCST for Soft Robotics. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 1758-1764.	8.0	350
6	Strategies to improve micelle stability for drug delivery. <i>Nano Research</i> , 2018, 11, 4985-4998.	10.4	311
7	Highly Stretchable and Transparent Ionogels as Nonvolatile Conductors for Dielectric Elastomer Transducers. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7840-7845.	8.0	226
8	Carbon dots with high fluorescence quantum yield: the fluorescence originates from organic fluorophores. <i>Nanoscale</i> , 2016, 8, 14374-14378.	5.6	217
9	Dextran-Based Self-Healing Hydrogels Formed by Reversible Diels-Alder Reaction under Physiological Conditions. <i>Macromolecular Rapid Communications</i> , 2013, 34, 1464-1470.	3.9	176
10	Multiple H-Bonding Chain Extender-Based Ultrastiff Thermoplastic Polyurethanes with Autonomous Self-Healability, Solvent-Free Adhesiveness, and AIE Fluorescence. <i>Advanced Functional Materials</i> , 2021, 31, 2006944.	14.9	138
11	An Ultrasoft Self-Fused Supramolecular Polymer Hydrogel for Completely Preventing Postoperative Tissue Adhesion. <i>Advanced Materials</i> , 2021, 33, e2008395.	21.0	104
12	Cationic polymer brush grafted-nanodiamond via atom transfer radical polymerization for enhanced gene delivery and bioimaging. <i>Journal of Materials Chemistry</i> , 2011, 21, 7755.	6.7	88
13	Dextran-based hydrogel formed by thiol-Michael addition reaction for 3D cell encapsulation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 128, 140-148.	5.0	75
14	The biocompatibility of fatty acid modified dextran-arginine bioconjugate gene delivery vector. <i>Biomaterials</i> , 2012, 33, 604-613.	11.4	72
15	Fabrication of strong hydrogen-bonding induced coacervate adhesive hydrogels with antibacterial and hemostatic activities. <i>Biomaterials Science</i> , 2020, 8, 1455-1463.	5.4	71
16	An unparalleled H-bonding and ion-bonding crosslinked waterborne polyurethane with super toughness and unprecedented fracture energy. <i>Materials Horizons</i> , 2021, 8, 2742-2749.	12.2	69
17	Tough Photoluminescent Hydrogels Doped with Lanthanide. <i>Macromolecular Rapid Communications</i> , 2015, 36, 465-471.	3.9	66
18	Temperature-tuned DNA condensation and gene transfection by PEI-g-(PME02MA-b-PHEMA) copolymer-based nonviral vectors. <i>Biomaterials</i> , 2010, 31, 144-155.	11.4	65

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19	A Fe ³⁺ -crosslinked pyrogallol-tethered gelatin adhesive hydrogel with antibacterial activity for wound healing. <i>Biomaterials Science</i> , 2020, 8, 3164-3172.	5.4	60
20	Biodegradable Zwitterionic Cream Gel for Effective Prevention of Postoperative Adhesion. <i>Advanced Functional Materials</i> , 2021, 31, 2009431.	14.9	54
21	Enhanced Therapeutic siRNA to Tumor Cells by a pH-Sensitive Agmatine- α -Chitosan Bioconjugate. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 8114-8124.	8.0	51
22	Glucose-responsive insulin release: Analysis of mechanisms, formulations, and evaluation criteria. <i>Journal of Controlled Release</i> , 2017, 263, 231-239.	9.9	46
23	Injectable Hyaluronic Acid Hydrogel Loaded with Functionalized Human Mesenchymal Stem Cell Aggregates for Repairing Infarcted Myocardium. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 6926-6937.	5.2	37
24	ZnO quantum dots-embedded collagen/polyanion composite hydrogels with integrated functions of degradation tracking/inhibition and gene delivery. <i>Journal of Materials Chemistry</i> , 2012, 22, 512-519.	6.7	22
25	Injectable hydrogel based on dodecyl-modified N-carboxyethyl chitosan/oxidized konjac glucomannan effectively prevents bleeding and postoperative adhesions after partial hepatectomy. <i>International Journal of Biological Macromolecules</i> , 2022, 199, 401-412.	7.5	22
26	A robust poly(<i>N</i> -acryloyl-2-glycine)-based sponge for rapid hemostasis. <i>Biomaterials Science</i> , 2020, 8, 3760-3771.	5.4	20
27	A high strength, anti-fouling, self-healable, and thermoplastic supramolecular polymer hydrogel with low fibrotic response. <i>Science China Technological Sciences</i> , 2019, 62, 569-577.	4.0	18
28	An in situ-forming polyzwitterion hydrogel: Towards vitreous substitute application. <i>Bioactive Materials</i> , 2021, 6, 3085-3096.	15.6	18
29	Combining magnetic field/temperature dual stimuli to significantly enhance gene transfection of nonviral vectors. <i>Journal of Materials Chemistry B</i> , 2013, 1, 43-51.	5.8	17
30	UV light-triggered unpacking of DNA to enhance gene transfection of azobenzene-containing polycations. <i>Journal of Materials Chemistry B</i> , 2014, 2, 3868.	5.8	15
31	A Mechanically Robust, Stiff, and Tough Hyperbranched Supramolecular Polymer Hydrogel. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1800819.	3.9	14
32	Fast thermoresponsive BAB-type HEMA/NIPAAm triblock copolymer solutions for embolization of abnormal blood vessels. <i>Journal of Materials Science: Materials in Medicine</i> , 2009, 20, 967-974.	3.6	13
33	A hyperbranched polymer-based water-resistant adhesive: Durable underwater adhesion and primer for anchoring anti-fouling hydrogel coating. <i>Science China Technological Sciences</i> , 2022, 65, 201-213.	4.0	12
34	Revisiting differences in the thermoresponsive behavior of PNIPAAm and PMEO2MA aqueous solutions. <i>RSC Advances</i> , 2012, 2, 2422.	3.6	10
35	T-shaped trifunctional crosslinker-toughening hydrogels. <i>Science China Technological Sciences</i> , 2020, 63, 1721-1729.	4.0	10
36	An Extensively Adhesive Patch with Multiple Physical Interactions and Chemical Crosslinking as a Wound Dressing and Strain Sensor. <i>ACS Applied Polymer Materials</i> , 2022, 4, 3926-3941.	4.4	10

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37	Robust and Antiswelling Hollow Hydrogel Tube with Antibacterial and Antithrombotic Ability for Emergency Vascular Replacement. ACS Applied Bio Materials, 2021, 4, 3598-3607.	4.6	9
38	3D printing of lubricative stiff supramolecular polymer hydrogels for meniscus replacement. Biomaterials Science, 2021, 9, 5116-5126.	5.4	8
39	<scp>l</scp>-Carnitine derived zwitterionic betaine materials. Journal of Materials Chemistry B, 2017, 5, 8676-8680.	5.8	5
40	Introducing primary and tertiary amino groups into a neutral polymer: A simple way to fabricating highly efficient nonviral vectors for gene delivery. Journal of Applied Polymer Science, 2014, 131, .	2.6	3