

List of Publications by Year in descending order

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55
papers

5,248
citations

136885

32
h-index

161767

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all docs

55
docs citations

55
times ranked

7870
citing authors

#	ARTICLE	IF	CITATIONS
1	A Mechanically Strong, Highly Stable, Thermoplastic, and Self-Healable Supramolecular Polymer Hydrogel. <i>Advanced Materials</i> , 2015, 27, 3566-3571.	11.1	684
2	Nano-carrier for gene delivery and bioimaging based on carbon dots with PEI-passivation enhanced fluorescence. <i>Biomaterials</i> , 2012, 33, 3604-3613.	5.7	664
3	Bioinspired fabrication of high strength hydrogels from non-covalent interactions. <i>Progress in Polymer Science</i> , 2017, 71, 1-25.	11.8	379
4	Paintable and Rapidly Bondable Conductive Hydrogels as Therapeutic Cardiac Patches. <i>Advanced Materials</i> , 2018, 30, e1704235.	11.1	329
5	A hybrid injectable hydrogel from hyperbranched PEG macromer as a stem cell delivery and retention platform for diabetic wound healing. <i>Acta Biomaterialia</i> , 2018, 75, 63-74.	4.1	213
6	The transition from linear to highly branched poly(β -amino ester)s: Branching matters for gene delivery. <i>Science Advances</i> , 2016, 2, e1600102.	4.7	163
7	A β -glucuronidase-conjugation-containing soft and conductive injectable polymer hydrogel highly efficiently rebuilds cardiac function after myocardial infarction. <i>Biomaterials</i> , 2017, 122, 63-71.	5.7	147
8	An injectable conductive hydrogel encapsulating plasmid DNA-eNOs and ADSCs for treating myocardial infarction. <i>Biomaterials</i> , 2018, 160, 69-81.	5.7	147
9	The restoration of full-thickness cartilage defects with BMSCs and TGF-beta 1 loaded PLGA/fibrin gel constructs. <i>Biomaterials</i> , 2010, 31, 8964-8973.	5.7	146
10	In vivo restoration of full-thickness cartilage defects by poly(lactide-co-glycolide) sponges filled with fibrin gel, bone marrow mesenchymal stem cells and DNA complexes. <i>Biomaterials</i> , 2010, 31, 5953-5965.	5.7	134
11	A robust, highly stretchable supramolecular polymer conductive hydrogel with self-healability and thermo-processability. <i>Scientific Reports</i> , 2017, 7, 41566.	1.6	132
12	NIR-Activated Polydopamine-Coated Carrier-Free Nanobomb for In Situ On-Demand Drug Release. <i>Advanced Science</i> , 2018, 5, 1800155.	5.6	130
13	A Mineralized High Strength and Tough Hydrogel for Skull Bone Regeneration. <i>Advanced Functional Materials</i> , 2017, 27, 1604327.	7.8	124
14	Injectable hyperbranched poly(β -amino ester) hydrogels with on-demand degradation profiles to match wound healing processes. <i>Chemical Science</i> , 2018, 9, 2179-2187.	3.7	123
15	Fabrication of a shape memory hydrogel based on imidazole-zinc ion coordination for potential cell-encapsulating tubular scaffold application. <i>Soft Matter</i> , 2013, 9, 132-137.	1.2	108
16	Wound dressing change facilitated by spraying zinc ions. <i>Materials Horizons</i> , 2020, 7, 605-614.	6.4	106
17	Reconstruction of rat calvarial defects with human mesenchymal stem cells and osteoblast-like cells in poly-lactic-co-glycolic acid scaffolds. <i>Journal of Biomedical Materials Research Part B: Applied Biomaterials</i> , 2010, 20, 109-120.		95
18	Conductive Hydrogen Sulfide-Releasing Hydrogel Encapsulating ADSCs for Myocardial Infarction Treatment. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 14619-14629.	4.0	93

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19	An anti-inflammatory cell-free collagen/resveratrol scaffold for repairing osteochondral defects in rabbits. <i>Acta Biomaterialia</i> , 2014, 10, 4983-4995.	4.1	89
20	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
21	Catechol functionalized hyperbranched polymers as biomedical materials. <i>Progress in Polymer Science</i> , 2018, 78, 47-55.	11.8	85
22	Highly Branched Poly(β -Amino Esters): Synthesis and Application in Gene Delivery. <i>Biomacromolecules</i> , 2015, 16, 2609-2617.	2.6	82
23	Rebuilding Postinfarcted Cardiac Functions by Injecting TIIA@PDA Nanoparticle-Cross-linked ROS-Sensitive Hydrogels. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 2880-2890.	4.0	79
24	Biological applications of carbon dots. <i>Science China Chemistry</i> , 2014, 57, 522-539.	4.2	77
25	The biocompatibility of fatty acid modified dextran-arginine bioconjugate gene delivery vector. <i>Biomaterials</i> , 2012, 33, 604-613.	5.7	72
26	Injectable Hypoxia-Induced Conductive Hydrogel to Promote Diabetic Wound Healing. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 56681-56691.	4.0	66
27	Tailoring highly branched poly(β -amino ester)s: a synthetic platform for epidermal gene therapy. <i>Chemical Communications</i> , 2015, 51, 8473-8476.	2.2	62
28	Nano-silver in situ hybridized collagen scaffolds for regeneration of infected full-thickness burn skin. <i>Journal of Materials Chemistry B</i> , 2015, 3, 4231-4241.	2.9	58
29	Restoring Cardiac Functions after Myocardial Infarction—Ischemia/Reperfusion via an Exosome Anchoring Conductive Hydrogel. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 56892-56908.	4.0	52
30	Zinc ion-triggered two-way macro-/microscopic shape changing and memory effects in high strength hydrogels with pre-programmed unilateral patterned surfaces. <i>Soft Matter</i> , 2012, 8, 6846.	1.2	51
31	Enhanced Therapeutic siRNA to Tumor Cells by a pH-Sensitive Arginine—Chitosan Bioconjugate. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 8114-8124.	4.0	51
32	Intramolecular Cyclization Dominating Homopolymerization of Multivinyl Monomers toward Single-Chain Cyclized/Knotted Polymeric Nanoparticles. <i>Macromolecules</i> , 2015, 48, 6882-6889.	2.2	37
33	Surface passivated carbon nanodots prepared by microwave assisted pyrolysis: effect of carboxyl group in precursors on fluorescence properties. <i>RSC Advances</i> , 2014, 4, 18818-18826.	1.7	36
34	High-strength hydrogel as a reusable adsorbent of copper ions. <i>Journal of Hazardous Materials</i> , 2012, 213-214, 258-264.	6.5	33
35	Synthesis of ROS scavenging microspheres from a dopamine containing poly(β -amino ester) for applications for neurodegenerative disorders. <i>Biomaterials Science</i> , 2016, 4, 400-404.	2.6	31
36	An injectable hydrogel based on phenylboronic acid hyperbranched macromer encapsulating gold nanorods and Astragaloside IV nanodrug for myocardial infarction. <i>Chemical Engineering Journal</i> , 2021, 413, 127423.	6.6	28

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37	Proliferation and osteogenesis of immortalized bone marrow-derived mesenchymal stem cells in porous polylactic glycolic acid scaffolds under perfusion culture. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 92A, 817-829.	2.1	27
38	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
39	A conductive and biodegradable hydrogel for minimally delivering adipose-derived stem cells. <i>Science China Technological Sciences</i> , 2019, 62, 1747-1754.	2.0	22
40	A hybrid scaffold of poly(lactide-co-glycolide) sponge filled with fibrin gel for cartilage tissue engineering. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2011, 29, 233-240.	2.0	19
41	PDMAEMA-b-polysulfobetaine brushes-modified μ -polylysine as a serum-resistant vector for highly efficient gene delivery. <i>Journal of Materials Chemistry</i> , 2012, 22, 23576.	6.7	19
42	A systemic gene vector constructed by zwitterionic polymer modified low molecular weight PEI. <i>Reactive and Functional Polymers</i> , 2013, 73, 993-1000.	2.0	17
43	Fenton reaction-initiated formation of biocompatible injectable hydrogels for cell encapsulation. <i>Journal of Materials Chemistry B</i> , 2013, 1, 3932.	2.9	16
44	Minimal invasive annulotomy for induction of disc degeneration and implantation of poly(lactic-co-glycolic acid) (PLGA) plugs for annular repair in a rabbit model. <i>European Journal of Medical Research</i> , 2016, 21, 7.	0.9	16
45	Hyperbranched PEG-based multi-NHS polymer and bioconjugation with BSA. <i>Polymer Chemistry</i> , 2017, 8, 1283-1287.	1.9	16
46	UV light-triggered unpacking of DNA to enhance gene transfection of azobenzene-containing polycations. <i>Journal of Materials Chemistry B</i> , 2014, 2, 3868.	2.9	15
47	Bacteria-Resistant Single Chain Cyclized/Knotted Polymer Coatings. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10616-10620.	7.2	14
48	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.	2.0	10
49	An injectable hydrogel to reverse the adverse microenvironment of diabetic infarcted heart. <i>Materialia</i> , 2021, 15, 100957.	1.3	9
50	Restoration of rat calvarial defects by poly(lactide-co-glycolide)/hydroxyapatite scaffolds loaded with bone mesenchymal stem cells and DNA complexes. <i>Science Bulletin</i> , 2012, 57, 435-444.	1.7	8
51	"Ferrero-like" nanoparticles knotted injectable hydrogels to initially scavenge ROS and lastingly promote vascularization in infarcted hearts. <i>Science China Technological Sciences</i> , 2020, 63, 2435-2448.	2.0	8
52	Stable gene transfection mediated by polysulfobetaine/PDMAEMA diblock copolymer in salted medium. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2013, 24, 330-343.	1.9	6
53	A change-prone zwitterionic hyperbranched terpolymer-based diabetic wound dressing. <i>Applied Materials Today</i> , 2022, 27, 101477.	2.3	5
54	Introducing primary and tertiary amino groups into a neutral polymer: A simple way to fabricating highly efficient nonviral vectors for gene delivery. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	3

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55	Opinion on the recent development of injectable biomaterials for treating myocardial infarction. Science China Technological Sciences, 2017, 60, 1278-1280.	2.0	2