

Boguang Yang

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

2,913
citations

136950

32
h-index

214800

47
g-index

47
all docs

47
docs citations

47
times ranked

4168
citing authors

#	ARTICLE	IF	CITATIONS
1	Injectable Fullerenol/Alginate Hydrogel for Suppression of Oxidative Stress Damage in Brown Adipose-Derived Stem Cells and Cardiac Repair. <i>ACS Nano</i> , 2017, 11, 5474-5488.	14.6	247
2	A PNIPAAm-based thermosensitive hydrogel containing SWCNTs for stem cell transplantation in myocardial repair. <i>Biomaterials</i> , 2014, 35, 5679-5688.	11.4	159
3	Bioadhesive hydrogels demonstrating pH-independent and ultrafast gelation promote gastric ulcer healing in pigs. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	147
4	Ultrafast Self-Gelling and Wet Adhesive Powder for Acute Hemostasis and Wound Healing. <i>Advanced Functional Materials</i> , 2021, 31, 2102583.	14.9	146
5	Adaptable Hydrogels Mediate Cofactor-Assisted Activation of Biomarker-Responsive Drug Delivery via Positive Feedback for Enhanced Tissue Regeneration. <i>Advanced Science</i> , 2018, 5, 1800875.	11.2	141
6	Organic Semiconducting Polymer Nanoparticles for Photoacoustic Labeling and Tracking of Stem Cells in the Second Near-Infrared Window. <i>ACS Nano</i> , 2018, 12, 12201-12211.	14.6	127
7	Ultrafast self-gelling powder mediates robust wet adhesion to promote healing of gastrointestinal perforations. <i>Science Advances</i> , 2021, 7, .	10.3	118
8	Organic semiconducting polymer amphiphile for near-infrared-II light-triggered phototheranostics. <i>Biomaterials</i> , 2020, 232, 119684.	11.4	96
9	Development of Electrically Conductive Double-Network Hydrogels via One-Step Facile Strategy for Cardiac Tissue Engineering. <i>Advanced Healthcare Materials</i> , 2016, 5, 474-488.	7.6	92
10	Enhanced mechanosensing of cells in synthetic 3D matrix with controlled biophysical dynamics. <i>Nature Communications</i> , 2021, 12, 3514.	12.8	92
11	Zwitterionic-Modified Starch-Based Stealth Micelles for Prolonging Circulation Time and Reducing Macrophage Response. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4385-4398.	8.0	86
12	Immunoregulation of macrophages by dynamic ligand presentation via ligand-cation coordination. <i>Nature Communications</i> , 2019, 10, 1696.	12.8	84
13	Physical Cross-Linking Starch-Based Zwitterionic Hydrogel Exhibiting Excellent Biocompatibility, Protein Resistance, and Biodegradability. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15710-15723.	8.0	77
14	Nanoparticle-assembled bioadhesive coacervate coating with prolonged gastrointestinal retention for inflammatory bowel disease therapy. <i>Nature Communications</i> , 2021, 12, 7162.	12.8	70
15	Hydroxyapatite Crystal Formation in the Presence of Polysaccharide. <i>Crystal Growth and Design</i> , 2016, 16, 1247-1255.	3.0	68
16	Physically crosslinked poly(vinyl alcohol)-carrageenan composite hydrogels: pore structure stability and cell adhesive ability. <i>RSC Advances</i> , 2015, 5, 78180-78191.	3.6	67
17	A thermoresponsive poly(N-vinylcaprolactam-co-sulfobetaine methacrylate) zwitterionic hydrogel exhibiting switchable anti-biofouling and cytocompatibility. <i>Polymer Chemistry</i> , 2015, 6, 3431-3442.	3.9	65
18	RoY Peptide-Modified Chitosan-Based Hydrogel to Improve Angiogenesis and Cardiac Repair under Hypoxia. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 6505-6517.	8.0	62

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19	Engineering pectin-based hollow nanocapsules for delivery of anticancer drug. <i>Carbohydrate Polymers</i> , 2017, 177, 86-96.	10.2	62
20	Microscopic local stiffening in a supramolecular hydrogel network expedites stem cell mechanosensing in 3D and bone regeneration. <i>Materials Horizons</i> , 2021, 8, 1722-1734.	12.2	62
21	Conformational manipulation of scale-up prepared single-chain polymeric nanogels for multiscale regulation of cells. <i>Nature Communications</i> , 2019, 10, 2705.	12.8	60
22	One-pot solvent exchange preparation of non-swellable, thermoplastic, stretchable and adhesive supramolecular hydrogels based on dual synergistic physical crosslinking. <i>NPG Asia Materials</i> , 2018, 10, e455-e455.	7.9	59
23	Remote Control of Intracellular Calcium Using Upconversion Nanotransducers Regulates Stem Cell Differentiation In Vivo. <i>Advanced Functional Materials</i> , 2018, 28, 1802642.	14.9	58
24	Chitosan/carrageenan/chitosan/gelatin scaffold for the osteogenic differentiation of adipose-derived MSCs <i>in vitro</i> . <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015, 103, 1498-1510.	3.4	54
25	Highly Dynamic Nanocomposite Hydrogels Self-Assembled by Metal Ion-Ligand Coordination. <i>Small</i> , 2019, 15, e1900242.	10.0	45
26	An In Situ Reversible Heterodimeric Nanoswitch Controlled by Metal Ion-Ligand Coordination Regulates the Mechanosensing and Differentiation of Stem Cells. <i>Advanced Materials</i> , 2018, 30, e1803591.	21.0	44
27	Highly self-healable and injectable cellulose hydrogels via rapid hydrazone linkage for drug delivery and 3D cell culture. <i>Carbohydrate Polymers</i> , 2021, 273, 118547.	10.2	42
28	A conductive PEDOT/alginate porous scaffold as a platform to modulate the biological behaviors of brown adipose-derived stem cells. <i>Biomaterials Science</i> , 2020, 8, 3173-3185.	5.4	41
29	A Biomimetic Poly(vinyl alcohol)-Carrageenan Composite Scaffold with Oriented Microarchitecture. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 544-557.	5.2	40
30	Zwitterionic starch-based hydrogel for the expansion and stemness-maintenance of brown adipose derived stem cells. <i>Biomaterials</i> , 2018, 157, 149-160.	11.4	39
31	Anisotropic Nanoscale Presentation of Cell Adhesion Ligand Enhances the Recruitment of Diverse Integrins in Adhesion Structures and Mechanosensing-Dependent Differentiation of Stem Cells. <i>Advanced Functional Materials</i> , 2019, 29, 1806822.	14.9	38
32	An anti-oxidative and conductive composite scaffold for cardiac tissue engineering. <i>Composites Part B: Engineering</i> , 2020, 199, 108285.	12.0	32
33	Injectable chitin hydrogels with self-healing property and biodegradability as stem cell carriers. <i>Carbohydrate Polymers</i> , 2021, 256, 117574.	10.2	32
34	Stable and pH-responsive polyamidoamine based unimolecular micelles capped with a zwitterionic polymer shell for anticancer drug delivery. <i>RSC Advances</i> , 2016, 6, 17728-17739.	3.6	31
35	Citrate-based fluorophore-modified cellulose nanocrystals as a biocompatible fluorescent probe for detecting ferric ions and intracellular imaging. <i>Carbohydrate Polymers</i> , 2019, 224, 115198.	10.2	28
36	Bisphosphonate-based hydrogel mediates biomimetic negative feedback regulation of osteoclastic activity to promote bone regeneration. <i>Bioactive Materials</i> , 2022, 13, 9-22.	15.6	26

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37	Stretchable and Bioadhesive Supramolecular Hydrogels Activated by a One-Stoneâ€Two-Bird Postgelation Functionalization Method. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 16328-16335.	8.0	25
38	Mussel cuticle-mimetic ultra-tough, self-healing elastomers with double-locked nanodomains exhibit fast stimuli-responsive shape transformation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12463-12471.	10.3	22
39	Biomimetic Presentation of Cryptic Ligands <i>via</i> Single-Chain Nanogels for Synergistic Regulation of Stem Cells. <i>ACS Nano</i> , 2020, 14, 4027-4035.	14.6	22
40	Fullerene mediates proliferation and cardiomyogenic differentiation of adipose-derived stem cells via modulation of MAPK pathway and cardiac protein expression. <i>International Journal of Nanomedicine</i> , 2016, 11, 269.	6.7	20
41	Synthesis and characterization of dendritic star-shaped zwitterionic polymers as novel anticancer drug delivery carriers. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2014, 25, 1641-1657.	3.5	18
42	Manipulating the mechanical properties of biomimetic hydrogels with multivalent hostâ€guest interactions. <i>Journal of Materials Chemistry B</i> , 2019, 7, 1726-1733.	5.8	15
43	Multifunctional Nanoprobe for the Delivery of Therapeutic siRNA and Real-Time Molecular Imaging of Parkinsonâ€™s Disease Biomarkers. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 11609-11620.	8.0	14
44	Biomaterial-Mediated Presentation of Jagged-1 Mimetic Ligand Enhances Cellular Activation of Notch Signaling and Bone Regeneration. <i>ACS Nano</i> , 2022, 16, 1051-1062.	14.6	14
45	Dynamic cell-adaptable hydrogels with a moderate level of elasticity promote 3D development of encapsulated cells. <i>Applied Materials Today</i> , 2021, 22, 100892.	4.3	9
46	Nanoparticleâ€Assembled Vacuolated Coacervates Control Macromolecule Spatiotemporal Distribution to Provide a Stable Segregated Cell Microenvironment. <i>Advanced Materials</i> , 2021, 33, 2007209.	21.0	9
47	Biomaterial-mediated presentation of wnt5a mimetic ligands enhances chondrogenesis and metabolism of stem cells by activating non-canonical Wnt signaling. <i>Biomaterials</i> , 2022, 281, 121316.	11.4	8