Honglian Dai

List of Publications by Year
in descending order

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58 papers	1,471 citations	361296 20 h-index	345118 36 g-index
59 all docs	59 docs citations	59 times ranked	2112 citing authors

#	Article	IF	Citations
1	Influence of different divalent ions cross-linking sodium alginate-polyacrylamide hydrogels on antibacterial properties and wound healing. Carbohydrate Polymers, 2018, 197, 292-304.	5.1	162
2	Different Inhibitory Effect and Mechanism of Hydroxyapatite Nanoparticles on Normal Cells and Cancer Cells In Vitro and In Vivo. Scientific Reports, 2014, 4, 7134.	1.6	139
3	Articular cartilage and osteochondral tissue engineering techniques: Recent advances and challenges. Bioactive Materials, 2021, 6, 4830-4855.	8.6	139
4	Micro-Nanostructured Polyaniline Assembled in Cellulose Matrix via Interfacial Polymerization for Applications in Nerve Regeneration. ACS Applied Materials & Interfaces, 2016, 8, 17090-17097.	4.0	117
5	Drug-Loaded Polymeric Nanoparticles for Cancer Stem Cell Targeting. Frontiers in Pharmacology, 2017, 8, 51.	1.6	59
6	Citric acid enhances the physical properties, cytocompatibility and osteogenesis of magnesium calcium phosphate cement. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 94, 42-50.	1.5	53
7	Electrospun preparation and biological properties in vitro of polyvinyl alcohol/sodium alginate/nano-hydroxyapatite composite fiber membrane. Colloids and Surfaces B: Biointerfaces, 2019, 173, 171-177.	2.5	46
8	Oriented nanofibrous P(MMD-co-LA)/Deferoxamine nerve scaffold facilitates peripheral nerve regeneration by regulating macrophage phenotype and revascularization. Biomaterials, 2022, 280, 121288.	5.7	46
9	An injectable bioactive magnesium phosphate cement incorporating carboxymethyl chitosan for bone regeneration. International Journal of Biological Macromolecules, 2020, 160, 101-111.	3.6	41
10	Magnesium phosphate based cement with improved setting, strength and cytocompatibility properties by adding Ca(H2PO4)2Â·H2O and citric acid. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 91, 229-236.	1.5	38
11	3D printing of bioglass-reinforced Î²-TCP porous bioceramic scaffolds. Journal of Materials Science, 2019, 54, 10437-10446.	1.7	36
12	The antibacterial and antibiofilm activities of mesoporous hollow Fe₃O₄ nanoparticles in an alternating magnetic field. Biomaterials Science, 2020, 8, 4492-4507.	2.6	33
13	Rare Earth Doped Apatite Nanomaterials for Biological Application. Journal of Nanomaterials, 2015, 2015, 1-6.	1.5	31
14	Ultrasonically assisted preparation of poly(acrylic acid)/calcium phosphate hybrid nanogels as pH-responsive drug carriers. Materials Science and Engineering C, 2017, 80, 688-697.	3.8	28
15	Painful Terminal Neuroma Prevention by Capping PRGD/PDLLA Conduit in Rat Sciatic Nerves. Advanced Science, 2018, 5, 1700876.	5.6	28
16	Preparation and characterization of a degradable magnesium phosphate bone cement. International Journal of Energy Production and Management, 2016, 3, 231-237.	1.9	27
17	Citric acid modification of a polymer exhibits antioxidant and antiâ€inflammatory properties in stem cells and tissues. Journal of Biomedical Materials Research - Part A, 2019, 107, 2414-2424.	2.1	27
18	PDLLA/PRGD/Î²â€TCP conduits build the neurotrophinâ€rich microenvironment suppressing the oxidative stress and promoting the sciatic nerve regeneration. Journal of Biomedical Materials Research - Part A, 2014, 102, 3734-3743.	2.1	25

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19	Citrate reduced oxidative damage in stem cells by regulating cellular redox signaling pathways and represent a potential treatment for oxidative stress-induced diseases. Redox Biology, 2019, 21, 101057.	3.9	25
20	3D printed tricalcium phosphate-bioglass scaffold with gyroid structure enhance bone ingrowth in challenging bone defect treatment. Applied Materials Today, 2021, 25, 101166.	2.3	24
21	The Synthesis of Size-Adjustable Superparamagnetism Fe3O4 Hollow Microspheres. Nanoscale Research Letters, 2017, 12, 234.	3.1	21
22	A chitosan based scaffold with enhanced mechanical and biocompatible performance for biomedical applications. Polymer Degradation and Stability, 2020, 181, 109322.	2.7	21
23	Mesoporous polydopamine-coated hydroxyapatite nano-composites for ROS-triggered nitric oxide-enhanced photothermal therapy of osteosarcoma. Journal of Materials Chemistry B, 2021, 9, 7401-7408.	2.9	21
24	Iron oxide nanoparticles with photothermal performance and enhanced nanozyme activity for bacteria-infected wound therapy. International Journal of Energy Production and Management, 2022, 9, .	1.9	21
25	Construction of macroporous magnesium phosphate-based bone cement with sustained drug release. Materials and Design, 2021, 200, 109466.	3.3	19
26	The effect of different hydroxyapatite microparticles on the osteogenic differentiation of MC3T3-E1 preosteoblasts. Journal of Materials Chemistry B, 2018, 6, 5234-5242.	2.9	18
27	Poly-Îµ-caprolactone/Whitlockite Electrospun Bionic Membrane with an Osteogenicâ€“Angiogenic Coupling Effect for Periosteal Regeneration. ACS Biomaterials Science and Engineering, 2021, 7, 3321-3331.	2.6	18
28	Magnesium Calcium Phosphate Cement Incorporating Citrate for Vascularized Bone Regeneration. ACS Biomaterials Science and Engineering, 2020, 6, 6299-6308.	2.6	16
29	Enhanced proliferation and differentiation of neural stem cells by peptide-containing temperature-sensitive hydrogel scaffold. Materials Science and Engineering C, 2020, 116, 111258.	3.8	15
30	Nondegradable magnetic poly (carbonate urethane) microspheres with good shape memory as a proposed material for vascular embolization. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 82, 9-17.	1.5	14
31	Effects of bioactive strontium-substituted hydroxyapatite on osseointegration of polyethylene terephthalate artificial ligaments. Journal of Materials Chemistry B, 2021, 9, 6600-6613.	2.9	14
32	Nanocomposite Hydrogels with High Mechanical Strength and High Swelling Ratio by RAFT Polymerization. International Journal of Polymeric Materials and Polymeric Biomaterials, 2013, 62, 10-16.	1.8	13
33	Improved functional recovery of rat transected spinal cord by peptide-grafted PNIPAM based hydrogel. Colloids and Surfaces B: Biointerfaces, 2022, 210, 112220.	2.5	13
34	Degradation characteristics, cell viability and host tissue responses of PDLLA-based scaffold with PRGD and Î²-TCP nanoparticles incorporation. International Journal of Energy Production and Management, 2016, 3, 159-166.	1.9	12
35	Synthesis and characterization of shape-memory poly carbonate urethane microspheres for future vascular embolization. Journal of Biomaterials Science, Polymer Edition, 2016, 27, 1248-1261.	1.9	11
36	Magnetically targeted co-delivery of hydrophilic and hydrophobic drugs with hollow mesoporous ferrite nanoparticles. RSC Advances, 2018, 8, 15326-15335.	1.7	9

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37	Citrate regulates extracellular matrix mineralization during osteoblast differentiation in vitro. Journal of Inorganic Biochemistry, 2021, 214, 111269.	1.5	9
38	Synthesis of magnetic particles with well-defined living polymeric chains via combination of RAFT polymerization and thiol-ene click chemistry. Journal of Polymer Research, 2016, 23, 1.	1.2	8
39	Citric acid crossâ€linked chitosan for inhibiting oxidative stress after nerve injury. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2022, 110, 2231-2240.	1.6	8
40	Recent progress of nanomedicine in secreted phospholipase A2 as a potential therapeutic target. Journal of Materials Chemistry B, 2022, 10, 7349-7360.	2.9	8
41	A Highly Hydrophilic and Biodegradable Novel Poly(amide-imide) for Biomedical Applications. Polymers, 2016, 8, 441.	2.0	7
42	Synthesis, mechanical properties and biocompatibility of novel biodegradable Poly(amide-imide)s for spinal implant. Polymer Degradation and Stability, 2017, 135, 85-98.	2.7	7
43	Mesoporous hollow Fe₃O₄ nanoparticles regulate the behavior of neuro-associated cells through induction of macrophage polarization in an alternating magnetic field. Journal of Materials Chemistry B, 2022, 10, 5633-5643.	2.9	7
44	Evaluation of a novel bioabsorbable PRGD/PDLLA/Î²-TCP/NGF composites in repair of peripheral nerves. Journal Wuhan University of Technology, Materials Science Edition, 2009, 24, 409-414.	0.4	5
45	Preparation of nano-TiO2 by liquid hydrolysis and characterization of its antibacterial activity. Journal Wuhan University of Technology, Materials Science Edition, 2014, 29, 407-409.	0.4	5
46	Synthesis, characterization and biological evaluation of poly [LA-co-(Glc-alt-Lys)] for nerve regeneration scaffold. Frontiers of Materials Science, 2014, 8, 95-101.	1.1	4
47	Synthesis, Characterization of Nano-Î²-Tricalcium Phosphate and the Inhibition on Hepatocellular Carcinoma Cells. Journal of Nanomaterials, 2018, 2018, 1-7.	1.5	4
48	Effect of Î²-TCP ceramic on the total protein of osteoblasts. Journal Wuhan University of Technology, Materials Science Edition, 2007, 22, 98-101.	0.4	3
49	Effects of Î²-TCP ceramics on intracellular Ca2+ concentration, mineralization of osteoblast and protein structure. Journal Wuhan University of Technology, Materials Science Edition, 2011, 26, 1064-1067.	0.4	3
50	A New Type of Nanogel Carrier based on Mixed Pluronic Loaded with Low-Dose Antitumor Drugs. Journal Wuhan University of Technology, Materials Science Edition, 2019, 34, 960-967.	0.4	3
51	Vancomycin Hydrochloride Loaded Hydroxyapatite Mesoporous Microspheres with Micro/Nano Surface Structure to Increase Osteogenic Differentiation and Antibacterial Ability. Journal of Biomedical Nanotechnology, 2021, 17, 1668-1678.	0.5	3
52	Effect of hydroxyapatite nanoparticles on K562 cells in vitro. Journal Wuhan University of Technology, Materials Science Edition, 2008, 23, 222-224.	0.4	2
53	Porous PLGA-PEG nerve conduit decorated with oriented electrospun chitosan-RGD nanofibre. Journal of Materials Research and Technology, 2021, 15, 86-98.	2.6	2
54	GSH/enzyme-responsive 2-sulfonyl-1-methylimidazole prodrug for enhanced transdermal drug delivery and therapeutic efficacy against hyperthyroidis. International Journal of Pharmaceutics, 2022, 617, 121600.	2.6	2

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55	Lath-like Structure of beta-Tricalcium Phosphate in Orthopedic Implants. Journal of the American Ceramic Society, 2005, 88, 1597-1599.	1.9	1
56	Preparation and drug-release behavior of Î²-TCP ceramics drug carrier in vitro. Journal Wuhan University of Technology, Materials Science Edition, 2012, 27, 1058-1060.	0.4	0
57	Effects of Î²-TCP ceramics on osteoblast cellular proliferating, mineralization and osteocalcin expression. Journal Wuhan University of Technology, Materials Science Edition, 2012, 27, 107-109.	0.4	0
58	RGD gifted PDLLA-PRGD conduits promotes the sciatic nerve regeneration. Journal Wuhan University of Technology, Materials Science Edition, 2014, 29, 620-625.	0.4	0