

Shengmin Zhang

List of Publications by Year in descending order

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42
papers

1,962
citations

236912

25
h-index

254170

43
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all docs

43
docs citations

43
times ranked

2568
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective laser sintering scaffold with hierarchical architecture and gradient composition for osteochondral repair in rabbits. <i>Biomaterials</i> , 2017, 137, 37-48.	11.4	246
2	Polymeric Systems for Bioprinting. <i>Chemical Reviews</i> , 2020, 120, 10744-10792.	47.7	161
3	Hierarchically designed bone scaffolds: From internal cues to external stimuli. <i>Biomaterials</i> , 2019, 218, 119334.	11.4	157
4	Progenitor cell-derived exosomes endowed with VEGF plasmids enhance osteogenic induction and vascular remodeling in large segmental bone defects. <i>Theranostics</i> , 2021, 11, 397-409.	10.0	111
5	Selenium-substituted hydroxyapatite nanoparticles and their in vivo antitumor effect on hepatocellular carcinoma. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 140, 297-306.	5.0	84
6	Green Gas-Mediated Cross-Linking Generates Biomolecular Hydrogels with Enhanced Strength and Excellent Hemostasis for Wound Healing. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 13622-13633.	8.0	76
7	Microsphere-based selective laser sintering for building macroporous bone scaffolds with controlled microstructure and excellent biocompatibility. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 135, 81-89.	5.0	74
8	Preparation and characterization of selenite substituted hydroxyapatite. <i>Materials Science and Engineering C</i> , 2013, 33, 440-445.	7.3	73
9	Biomimetic self-assembly of apatite hybrid materials: From a single molecular template to bi-/multi-molecular templates. <i>Biotechnology Advances</i> , 2014, 32, 744-760.	11.7	71
10	Zn/Sr dual ions-collagen co-assembly hydroxyapatite enhances bone regeneration through procedural osteo-immunomodulation and osteogenesis. <i>Bioactive Materials</i> , 2022, 10, 195-206.	15.6	67
11	Bioinspired membrane provides periosteum-mimetic microenvironment for accelerating vascularized bone regeneration. <i>Biomaterials</i> , 2021, 268, 120561.	11.4	60
12	Exosome-mimetics as an engineered gene-activated matrix induces in-situ vascularized osteogenesis. <i>Biomaterials</i> , 2020, 247, 119985.	11.4	56
13	Research trends in biomimetic medical materials for tissue engineering: 3D bioprinting, surface modification, nano/micro-technology and clinical aspects in tissue engineering of cartilage and bone. <i>Biomaterials Research</i> , 2016, 20, 10.	6.9	54
14	Injectable bone cement with magnesium-containing microspheres enhances osteogenesis via anti-inflammatory immunoregulation. <i>Bioactive Materials</i> , 2021, 6, 3411-3423.	15.6	49
15	Hierarchically constructed selenium-doped bone-mimetic nanoparticles promote ROS-mediated autophagy and apoptosis for bone tumor inhibition. <i>Biomaterials</i> , 2020, 257, 120253.	11.4	47
16	High Flexible and Broad Antibacterial Nanodressing Induces Complete Skin Repair with Angiogenic and Follicle Regeneration. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000035.	7.6	45
17	Bioenergetic-active materials enhance tissue regeneration by modulating cellular metabolic state. <i>Science Advances</i> , 2020, 6, eaay7608.	10.3	44
18	Electrophoretic deposition of zinc-substituted hydroxyapatite coatings. <i>Materials Science and Engineering C</i> , 2014, 39, 67-72.	7.3	43

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19	Delivering Proangiogenic Factors from 3D-Printed Polycaprolactone Scaffolds for Vascularized Bone Regeneration. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000727.	7.6	42
20	Preparation and mechanical properties of poly(chitosan-glycolyl-lactide) fibrous mesh scaffolds. <i>Polymers for Advanced Technologies</i> , 2008, 19, 114-123.	3.2	36
21	Chimeric Protein Template-Induced Shape Control of Bone Mineral Nanoparticles and Its Impact on Mesenchymal Stem Cell Fate. <i>Biomacromolecules</i> , 2015, 16, 1987-1996.	5.4	36
22	Mechanical Properties of Porous Polylactide/Chitosan Blend Membranes. <i>Macromolecular Materials and Engineering</i> , 2007, 292, 598-607.	3.6	34
23	Bio-inspired hybrid nanoparticles promote vascularized bone regeneration in a morphology-dependent manner. <i>Nanoscale</i> , 2017, 9, 5794-5805.	5.6	33
24	Selenite-Releasing Bone Mineral Nanoparticles Retard Bone Tumor Growth and Improve Healthy Tissue Functions In Vivo. <i>Advanced Healthcare Materials</i> , 2015, 4, 1813-1818.	7.6	28
25	Remodeling of inherent antimicrobial nanofiber dressings with melamine-modified fibroin into neoskin. <i>Journal of Materials Chemistry B</i> , 2019, 7, 3412-3423.	5.8	28
26	Lysozyme loading and release from Se doped hydroxyapatite nanoparticles. <i>Materials Science and Engineering C</i> , 2016, 61, 545-552.	7.3	22
27	Untangling the co-effects of oriented nanotopography and sustained anticoagulation in a biomimetic intima on neovessel remodeling. <i>Biomaterials</i> , 2020, 231, 119654.	11.4	20
28	Integrated polycaprolactone microsphere-based scaffolds with biomimetic hierarchy and tunable vascularization for osteochondral repair. <i>Acta Biomaterialia</i> , 2022, 141, 190-197.	8.3	20
29	Biomimetic Coprecipitation of Silk Fibrin and Calcium Phosphate: Influence of Selenite Ions. <i>Biological Trace Element Research</i> , 2017, 178, 338-347.	3.5	19
30	A high-strength biodegradable thermoset polymer for internal fixation bone screws: Preparation, in vitro and in vivo evaluation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 183, 110445.	5.0	19
31	Bioactive Molecules Release and Cellular Responses of Alginate-Tricalcium Phosphate Particles Hybrid Gel. <i>Nanomaterials</i> , 2017, 7, 389.	4.1	18
32	Repair of rat calvarial defects using Si-doped hydroxyapatite scaffolds loaded with a bone morphogenetic protein-related peptide. <i>Journal of Orthopaedic Research</i> , 2016, 34, 1874-1882.	2.3	17
33	Enhanced effect of nano-monetite hydrosol on dentin remineralization and tubule occlusion. <i>Dental Materials</i> , 2020, 36, 816-825.	3.5	13
34	Preparation, Characterization, and In Vitro Cytotoxicity Evaluation of a Novel Anti-Tuberculosis Reconstruction Implant. <i>PLoS ONE</i> , 2014, 9, e94937.	2.5	12
35	Functionalized Polycaprolactone/Hydroxyapatite Composite Microspheres for Promoting Bone Consolidation in a Rat Distraction Osteogenesis Model. <i>Journal of Orthopaedic Research</i> , 2020, 38, 961-971.	2.3	10
36	Synthesis and thermal stability of selenium-doped hydroxyapatite with different substitutions. <i>Frontiers of Materials Science</i> , 2015, 9, 392-396.	2.2	9

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37	Assembly Mechanism of Highly Crystalline Selenium-Doped Hydroxyapatite Nanorods via Particle Attachment and Their Effect on the Fate of Stem Cells. ACS Biomaterials Science and Engineering, 2019, 5, 6703-6714.	5.2	9
38	Research trends in biomimetic medical materials for tissue engineering: commentary. Biomaterials Research, 2016, 20, 8.	6.9	7
39	Si-doping bone composite based on protein template-mediated assembly for enhancing bone regeneration. Frontiers of Materials Science, 2017, 11, 106-119.	2.2	5
40	Albumin-assembled copper-bismuth bimetallic sulfide bioactive nanosphere as an amplifier of oxidative stress for enhanced radio-chemodynamic combination therapy. Regenerative Biomaterials, 2022, 9, .	5.6	3
41	Frontiers in regenerative medical materials: Comments from the participants of the 2014 China-Korea Symposium on Biomimetic and Regenerative Medical Materials. International Journal of Energy Production and Management, 2015, 2, 71-76.	3.7	2
42	Biomaterials for Regenerative Medicine. Advanced Healthcare Materials, 2020, 9, 2001920.	7.6	1