

Shengmin Zhang

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

39 papers	1,174 citations	19 h-index	33 g-index
43 ext. papers	1,579 ext. citations	10.4 avg, IF	4.86 L-index

#	Paper	IF	Citations
39	Selective laser sintering scaffold with hierarchical architecture and gradient composition for osteochondral repair in rabbits. <i>Biomaterials</i> , 2017 , 137, 37-48	15.6	179
38	Hierarchically designed bone scaffolds: From internal cues to external stimuli. <i>Biomaterials</i> , 2019 , 218, 119334	15.6	109
37	Polymeric Systems for Bioprinting. <i>Chemical Reviews</i> , 2020 , 120, 10744-10792	68.1	68
36	Selenium-substituted hydroxyapatite nanoparticles and their in vivo antitumor effect on hepatocellular carcinoma. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 140, 297-306	6	65
35	Preparation and characterization of selenite substituted hydroxyapatite. <i>Materials Science and Engineering C</i> , 2013 , 33, 440-5	8.3	64
34	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	6	60
33	Biomimetic self-assembly of apatite hybrid materials: from a single molecular template to bi-/multi-molecular templates. <i>Biotechnology Advances</i> , 2014 , 32, 744-60	17.8	60
32	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	16.8	44
31	Electrophoretic deposition of zinc-substituted hydroxyapatite coatings. <i>Materials Science and Engineering C</i> , 2014 , 39, 67-72	8.3	39
30	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	9.5	37
29	Preparation and mechanical properties of poly(chitosan-g-DL-lactic acid) fibrous mesh scaffolds. <i>Polymers for Advanced Technologies</i> , 2008 , 19, 114-123	3.2	35
28	Mechanical Properties of Porous Polylactide/Chitosan Blend Membranes. <i>Macromolecular Materials and Engineering</i> , 2007 , 292, 598-607	3.9	32
27	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	6.9	29
26	Exosome-mimetics as an engineered gene-activated matrix induces in-situ vascularized osteogenesis. <i>Biomaterials</i> , 2020 , 247, 119985	15.6	28
25	Bio-inspired hybrid nanoparticles promote vascularized bone regeneration in a morphology-dependent manner. <i>Nanoscale</i> , 2017 , 9, 5794-5805	7.7	26
24	Selenite-Releasing Bone Mineral Nanoparticles Retard Bone Tumor Growth and Improve Healthy Tissue Functions In Vivo. <i>Advanced Healthcare Materials</i> , 2015 , 4, 1813-8	10.1	23
23	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	12.1	23

22	Hierarchically constructed selenium-doped bone-mimetic nanoparticles promote ROS-mediated autophagy and apoptosis for bone tumor inhibition. <i>Biomaterials</i> , 2020 , 257, 120253	15.6	20
21	Remodeling of inherent antimicrobial nanofiber dressings with melamine-modified fibroin into neoskin. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 3412-3423	7.3	19
20	Lysozyme loading and release from Se doped hydroxyapatite nanoparticles. <i>Materials Science and Engineering C</i> , 2016 , 61, 545-52	8.3	19
19	Bioenergetic-active materials enhance tissue regeneration by modulating cellular metabolic state. <i>Science Advances</i> , 2020 , 6, eaay7608	14.3	18
18	Delivering Proangiogenic Factors from 3D-Printed Polycaprolactone Scaffolds for Vascularized Bone Regeneration. <i>Advanced Healthcare Materials</i> , 2020 , 9, e2000727	10.1	18
17	Bioinspired membrane provides periosteum-mimetic microenvironment for accelerating vascularized bone regeneration. <i>Biomaterials</i> , 2021 , 268, 120561	15.6	18
16	Biomimetic Coprecipitation of Silk Fibrin and Calcium Phosphate: Influence of Selenite Ions. <i>Biological Trace Element Research</i> , 2017 , 178, 338-347	4.5	17
15	High Flexible and Broad Antibacterial Nanodressing Induces Complete Skin Repair with Angiogenic and Follicle Regeneration. <i>Advanced Healthcare Materials</i> , 2020 , 9, e2000035	10.1	17
14	Repair of rat calvarial defects using Si-doped hydroxyapatite scaffolds loaded with a bone morphogenetic protein-2-related peptide. <i>Journal of Orthopaedic Research</i> , 2016 , 34, 1874-1882	3.8	15
13	Bioactive Molecules Release and Cellular Responses of Alginate-Tricalcium Phosphate Particles Hybrid Gel. <i>Nanomaterials</i> , 2017 , 7,	5.4	14
12	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	16.7	11
11	Synthesis and thermal stability of selenium-doped hydroxyapatite with different substitutions. <i>Frontiers of Materials Science</i> , 2015 , 9, 392-396	2.5	9
10	Injectable bone cement with magnesium-containing microspheres enhances osteogenesis via anti-inflammatory immunoregulation. <i>Bioactive Materials</i> , 2021 , 6, 3411-3423	16.7	9
9	Preparation, characterization, and in vitro cytotoxicity evaluation of a novel anti-tuberculosis reconstruction implant. <i>PLoS ONE</i> , 2014 , 9, e94937	3.7	8
8	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	6	7
7	Assembly Mechanism of Highly Crystalline Selenium-Doped Hydroxyapatite Nanorods via Particle Attachment and Their Effect on the Fate of Stem Cells. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 6703-6714	5.5	7
6	Untangling the co-effects of oriented nanotopography and sustained anticoagulation in a biomimetic intima on neovessel remodeling. <i>Biomaterials</i> , 2020 , 231, 119654	15.6	6
5	Si-doping bone composite based on protein template-mediated assembly for enhancing bone regeneration. <i>Frontiers of Materials Science</i> , 2017 , 11, 106-119	2.5	5

4	Research trends in biomimetic medical materials for tissue engineering: commentary. <i>Biomaterials Research</i> , 2016 , 20, 8	16.8	5
3	Enhanced effect of nano-monetite hydrosol on dentin remineralization and tubule occlusion. <i>Dental Materials</i> , 2020 , 36, 816-825	5.7	4
2	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	3.8	3
1	Frontiers in regenerative medical materials: Comments from the participants of the 2014 China-Korea Symposium on Biomimetic and Regenerative Medical Materials. <i>International Journal of Energy Production and Management</i> , 2015 , 2, 71-6	5.3	2