

# Changsheng Liu

## List of Publications by Year in descending order

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46  
papers

3,321  
citations

186209

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223716

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46  
docs citations

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times ranked

4961  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomimetic porous scaffolds for bone tissue engineering. <i>Materials Science and Engineering Reports</i> , 2014, 80, 1-36.	14.8	854
2	The Horizon of Materiobiology: A Perspective on Material-Guided Cell Behaviors and Tissue Engineering. <i>Chemical Reviews</i> , 2017, 117, 4376-4421.	23.0	424
3	Bioinspired trimodal macro/micro/nano-porous scaffolds loading rhBMP-2 for complete regeneration of critical size bone defect. <i>Acta Biomaterialia</i> , 2016, 32, 309-323.	4.1	202
4	Magnesium modification of a calcium phosphate cement alters bone marrow stromal cell behavior via an integrin-mediated mechanism. <i>Biomaterials</i> , 2015, 53, 251-264.	5.7	181
5	Enhanced bioactivity of bone morphogenetic protein-2 with low dose of 2-N, 6-O-sulfated chitosan in vitro and in vivo. <i>Biomaterials</i> , 2009, 30, 1715-1724.	5.7	150
6	Bone regeneration using photocrosslinked hydrogel incorporating rhBMP-2 loaded 2-N, 6-O-sulfated chitosan nanoparticles. <i>Biomaterials</i> , 2014, 35, 2730-2742.	5.7	108
7	Rapid initiation of guided bone regeneration driven by spatiotemporal delivery of IL-8 and BMP-2 from hierarchical MBC-based scaffold. <i>Biomaterials</i> , 2019, 196, 122-137.	5.7	108
8	Charge-Reversal APTES-Modified Mesoporous Silica Nanoparticles with High Drug Loading and Release Controllability. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 17166-17175.	4.0	101
9	PEGylated poly(glycerol sebacate)-modified calcium phosphate scaffolds with desirable mechanical behavior and enhanced osteogenic capacity. <i>Acta Biomaterialia</i> , 2016, 44, 110-124.	4.1	67
10	$\beta$ -Tricalcium phosphate/poly(glycerol sebacate) scaffolds with robust mechanical property for bone tissue engineering. <i>Materials Science and Engineering C</i> , 2015, 56, 37-47.	3.8	66
11	Preferential tumor accumulation and desirable interstitial penetration of poly(lactic-co-glycolic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 glycol-poly(d,l-lactic acid). <i>Acta Biomaterialia</i> , 2016, 29, 248-260.	4.1	65
12	Sulfated polysaccharide directs therapeutic angiogenesis via endogenous VEGF secretion of macrophages. <i>Science Advances</i> , 2021, 7, .	4.7	65
13	Enhancement and orchestration of osteogenesis and angiogenesis by a dual-modular design of growth factors delivery scaffolds and 26SCS decoration. <i>Biomaterials</i> , 2020, 232, 119645.	5.7	54
14	Multicellularity-interweaved bone regeneration of BMP-2-loaded scaffold with orchestrated kinetics of resorption and osteogenesis. <i>Biomaterials</i> , 2019, 216, 119216.	5.7	46
15	A poly(glycerol sebacate)-coated mesoporous bioactive glass scaffold with adjustable mechanical strength, degradation rate, controlled-release and cell behavior for bone tissue engineering. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 131, 1-11.	2.5	45
16	Manipulation of VEGF-induced angiogenesis by 2-N, 6-O-sulfated chitosan. <i>Acta Biomaterialia</i> , 2018, 71, 510-521.	4.1	45
17	Enhancement of VEGF-Mediated Angiogenesis by 2-N,6-O-Sulfated Chitosan-Coated Hierarchical PLGA Scaffolds. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 9982-9990.	4.0	44
18	Nanostructured hydroxyapatite surfaces-mediated adsorption alters recognition of BMP receptor IA and bioactivity of bone morphogenetic protein-2. <i>Acta Biomaterialia</i> , 2015, 27, 275-285.	4.1	44

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19	Formation of graphene oxide-hybridized nanogels for combinative anticancer therapy. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 2387-2395.	1.7	43
20	2- N , 6- O -sulfated chitosan-assisted BMP-2 immobilization of PCL scaffolds for enhanced osteoinduction. <i>Materials Science and Engineering C</i> , 2017, 74, 298-306.	3.8	38
21	Formation of enzymatic/redox-switching nanogates on mesoporous silica nanoparticles for anticancer drug delivery. <i>Materials Science and Engineering C</i> , 2019, 100, 855-861.	3.8	38
22	Urethane-based low-temperature curing, highly-customized and multifunctional poly(glycerol) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	4.1	37
23	Direct three-dimensional printing of a highly customized freestanding hyperelastic bioscaffold for complex craniomaxillofacial reconstruction. <i>Chemical Engineering Journal</i> , 2021, 411, 128541.	6.6	37
24	Controllable Synthesis of Biomimetic Hydroxyapatite Nanorods with High Osteogenic Bioactivity. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 320-328.	2.6	36
25	Localization and promotion of recombinant human bone morphogenetic protein-2 bioactivity on extracellular matrix mimetic chondroitin sulfate-functionalized calcium phosphate cement scaffolds. <i>Acta Biomaterialia</i> , 2018, 71, 184-199.	4.1	34
26	RhBMP-2 loaded MBG/PEGylated poly(glycerol sebacate) composite scaffolds for rapid bone regeneration. <i>Journal of Materials Chemistry B</i> , 2017, 5, 4633-4647.	2.9	33
27	Spatiotemporal Immunomodulation Using Biomimetic Scaffold Promotes Endochondral Ossificationâ€Mediated Bone Healing. <i>Advanced Science</i> , 2021, 8, e2100143.	5.6	33
28	Recapitulation of In Situ Endochondral Ossification Using an Injectable Hypoxiaâ€Mimetic Hydrogel. <i>Advanced Functional Materials</i> , 2021, 31, 2008515.	7.8	32
29	Incorporating redox-sensitive nanogels into bioabsorbable nanofibrous membrane to acquire ROS-balance capacity for skin regeneration. <i>Bioactive Materials</i> , 2021, 6, 3461-3472.	8.6	30
30	The immunomodulatory role of sulfated chitosan in BMP-2-mediated bone regeneration. <i>Biomaterials Science</i> , 2018, 6, 2496-2507.	2.6	28
31	Kaolin-reinforced 3D MBG scaffolds with hierarchical architecture and robust mechanical strength for bone tissue engineering. <i>Journal of Materials Chemistry B</i> , 2014, 2, 3782-3790.	2.9	26
32	Preparation of an rhBMP-2 loaded mesoporous bioactive glass/calcium phosphate cement porous composite scaffold for rapid bone tissue regeneration. <i>Journal of Materials Chemistry B</i> , 2015, 3, 8558-8566.	2.9	26
33	Accelerated Bone Regenerative Efficiency by Regulating Sequential Release of BMP-2 and VEGF and Synergism with Sulfated Chitosan. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 1944-1955.	2.6	26
34	Strontium doping promotes bioactivity of rhBMP-2 upon calcium phosphate cement via elevated recognition and expression of BMPR-IA. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 159, 684-695.	2.5	20
35	Synergistic effects of dual growth factor delivery from composite hydrogels incorporating <i>2-N,6-O</i>-sulphated chitosan on bone regeneration. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 1-17.	1.9	20
36	Microporous density-mediated response of MSCs on 3D trimodal macro/micro/nano-porous scaffolds via fibronectin/integrin and FAK/MAPK signaling pathways. <i>Journal of Materials Chemistry B</i> , 2017, 5, 3586-3599.	2.9	17

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37	In situ biodegradable crosslinking of cationic oligomer coating on mesoporous silica nanoparticles for drug delivery. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 153, 272-279.	2.5	15
38	Development of bioabsorbable polylactide membrane with controllable hydrophilicity for adjustment of cell behaviours. <i>Royal Society Open Science</i> , 2018, 5, 170868.	1.1	15
39	Potential effect of HB-EGF on facilitating wound healing via 2-N,6-O-sulfated chitosan nanoparticles modified PLGA scaffold. <i>RSC Advances</i> , 2017, 7, 43161-43171.	1.7	14
40	Biomaterial-guided immobilization and osteoactivity of bone morphogenetic protein-2. <i>Applied Materials Today</i> , 2020, 19, 100599.	2.3	13
41	In Situ formation of pH-/thermo-sensitive nanohybrids via friendly-assembly of poly(N-vinylpyrrolidone) onto LAPONITE®. <i>RSC Advances</i> , 2016, 6, 31816-31823.	1.7	12
42	Robust hierarchical porous MBG scaffolds with promoted biomineralization ability. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 178, 22-31.	2.5	10
43	The regulatory role of sulfated polysaccharides in facilitating rhBMP-2-induced osteogenesis. <i>Biomaterials Science</i> , 2019, 7, 4375-4387.	2.6	9
44	Dual-function injectable fibrin gel incorporated with sulfated chitosan nanoparticles for rhBMP-2-induced bone regeneration. <i>Applied Materials Today</i> , 2022, 26, 101347.	2.3	5
45	Bioactive Film-Guided Soft-Hard Interface Design Technology for Multi-Tissue Integrative Regeneration. <i>Advanced Science</i> , 2022, , 2105945.	5.6	4
46	Rational Design and Fabrication of Biomimetic Hierarchical Scaffolds With Bone-Matchable Strength for Bone Regeneration. <i>Frontiers in Materials</i> , 2021, 7, .	1.2	1