Min Lee

List of Publications by Year
in descending order

77 papers	4,838 citations	76196 40 h-index	95083 68 g-index
78 all docs	78 docs citations	78 times ranked	7116 citing authors

#	Article	IF	Citations
1	The ERÎ±/KDM6B regulatory axis modulates osteogenic differentiation in human mesenchymal stem cells. Bone Research, 2022, 10, 3.	5.4	12
2	Three interfaces of the dental implant system and their clinical effects on hard and soft tissues. Materials Horizons, 2022, 9, 1387-1411.	6.4	21
3	Local delivery of a CXCR3 antagonist decreases the progression of bone resorption induced by LPS injection in a murine model. Clinical Oral Investigations, 2022, 26, 5163-5169.	1.4	1
4	Oxygen-Enriched Osteoinductive Nanoerythrocytes Augment Cell Survival and Osteogenic Differentiation for Bone Regeneration. Chemistry of Materials, 2022, 34, 5808-5820.	3.2	2
5	Trb3 controls mesenchymal stem cell lineage fate and enhances bone regeneration by scaffold-mediated local gene delivery. Biomaterials, 2021, 264, 120445.	5.7	24
6	Enhanced Osteoinductivity of Demineralized Bone Matrix with Noggin Suppression in Polymer Matrix. Advanced Biology, 2021, 5, e202000135.	1.4	5
7	Development of a Biomaterial Scaffold Integrated with Osteoinductive Oxysterol Liposomes to Enhance Hedgehog Signaling and Bone Repair. Molecular Pharmaceutics, 2021, 18, 1677-1689.	2.3	19
8	Sulfonate Hydrogelâ€"siRNA Conjugate Facilitates Osteogenic Differentiation of Mesenchymal Stem Cells by Controlled Gene Silencing and Activation of BMP Signaling. ACS Applied Bio Materials, 2021, 4, 5189-5200.	2.3	5
9	Bioactive Scaffolds Integrated with Liposomal or Extracellular Vesicles for Bone Regeneration. Bioengineering, 2021, 8, 137.	1.6	30
10	Co-delivery of simvastatin and demineralized bone matrix hierarchically from nanosheet-based supramolecular hydrogels for osteogenesis. Journal of Materials Chemistry B, 2021, 9, 7741-7750.	2.9	9
11	Systemic DKK1 neutralization enhances human adipose-derived stem cell mediated bone repair. Stem Cells Translational Medicine, 2021, 10, 610-622.	1.6	17
12	Inspired by Nature: Facile Design of Nanoclayâ€"Organic Hydrogel Bone Sealant with Multifunctional Properties for Robust Bone Regeneration. Advanced Functional Materials, 2020, 30, 2003717.	7.8	81
13	Generation of Small RNA-Modulated Exosome Mimetics for Bone Regeneration. ACS Nano, 2020, 14, 11973-11984.	7.3	119
14	Rational Design of Hydrogels to Enhance Osteogenic Potential. Chemistry of Materials, 2020, 32, 9508-9530.	3.2	22
15	Supramolecular Hydrogels Based on Nanoclay and Guanidine-Rich Chitosan: Injectable and Moldable Osteoinductive Carriers. ACS Applied Materials & Interfaces, 2020, 12, 16088-16096.	4.0	43
16	Heparinized chitosan stabilizes the bioactivity of BMP-2 and potentiates the osteogenic efficacy of demineralized bone matrix. Journal of Biological Engineering, 2020, 14, 6.	2.0	19
17	Dual Functional Lysozymeâ€"Chitosan Conjugate for Tunable Degradation and Antibacterial Activity. ACS Applied Bio Materials, 2020, 3, 2334-2343.	2.3	29
18	Photo-induced reactions for disassembling of coloaded photosensitizer and drug molecules from upconversion-mesoporous silica nanoparticles: An effective synergistic cancer therapy. Materials Science and Engineering C, 2020, 110, 110545.	3.8	26

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19	Photopolymerizable Hydrogel-Encapsulated Fibromodulin-Reprogrammed Cells for Muscle Regeneration. Tissue Engineering - Part A, 2020, 26, 1112-1122.	1.6	8
20	Smoothened agonist sterosome immobilized hybrid scaffold for bone regeneration. Science Advances, 2020, 6, eaaz7822.	4.7	35
21	Apatiteâ€Binding Nanoparticulate Agonist of Hedgehog Signaling for Bone Repair. Advanced Functional Materials, 2020, 30, 1909218.	7.8	19
22	Microporous methacrylated glycol chitosan-montmorillonite nanocomposite hydrogel for bone tissue engineering. Nature Communications, 2019, 10, 3523.	5.8	273
23	Relative contributions of adipose-resident CD146+ pericytes and CD34+ adventitial progenitor cells in bone tissue engineering. Npj Regenerative Medicine, 2019, 4, 1.	2.5	62
24	Skeletogenic Capacity of Human Perivascular Stem Cells Obtained Via Magnetic-Activated Cell Sorting. Tissue Engineering - Part A, 2019, 25, 1658-1666.	1.6	6
25	Hypoxic Physiological Environments in a Gas-Regulated Microfluidic Device. Micromachines, 2019, 10, 16.	1.4	5
26	Design of hydrogels to stabilize and enhance bone morphogenetic protein activity by heparin mimetics. Acta Biomaterialia, 2018, 72, 45-54.	4.1	43
27	Chitosanâ€“Lysozyme Conjugates for Enzyme-Triggered Hydrogel Degradation in Tissue Engineering Applications. ACS Applied Materials & Interfaces, 2018, 10, 41138-41145.	4.0	82
28	Photopolymerizable chitosan-collagen hydrogels for bone tissue engineering. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 164-174.	1.3	103
29	Simultaneous delivery of hydrophobic small molecules and siRNA using Sterosomes to direct mesenchymal stem cell differentiation for bone repair. Acta Biomaterialia, 2017, 58, 214-224.	4.1	48
30	Combining Smoothened Agonist and NEL-Like Protein-1 Enhances Bone Healing. Plastic and Reconstructive Surgery, 2017, 139, 1385-1396.	0.7	22
31	Small molecule-mediated tribbles homolog 3 promotes bone formation induced by bone morphogenetic protein-2. Scientific Reports, 2017, 7, 7518.	1.6	16
32	Design and Characterization of a Therapeutic Non-phospholipid Liposomal Nanocarrier with Osteoinductive Characteristics To Promote Bone Formation. ACS Nano, 2017, 11, 8055-8063.	7.3	42
33	Reducing posttreatment relapse in cleft lip palatal expansion using an injectable estrogenâ€“nanodiamond hydrogel. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E7218-E7225.	3.3	20
34	Enhanced Mandibular Bone Repair by Combined Treatment of Bone Morphogenetic Protein 2 and Small-Molecule Phenamil. Tissue Engineering - Part A, 2017, 23, 195-207.	1.6	23
35	NELL-1 induces Sca-1+ mesenchymal progenitor cell expansion in models of bone maintenance and repair. JCI Insight, 2017, 2, .	2.3	18
36	Calvarial Defect Healing Induced by Small Molecule Smoothened Agonist. Tissue Engineering - Part A, 2016, 22, 1357-1366.	1.6	23

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37	Photocrosslinkable chitosan hydrogels functionalized with the RGD peptide and phosphoserine to enhance osteogenesis. Journal of Materials Chemistry B, 2016, 4, 5289-5298.	2.9	69
38	Novel Wnt Regulator NEL-Like Molecule-1 Antagonizes Adipogenesis and Augments Osteogenesis Induced by Bone Morphogenetic Protein 2. American Journal of Pathology, 2016, 186, 419-434.	1.9	59
39	Enhanced Osteogenesis of Adipose-Derived Stem Cells by Regulating Bone Morphogenetic Protein Signaling Antagonists and Agonists. Stem Cells Translational Medicine, 2016, 5, 539-551.	1.6	39
40	Delivery of Phenamil Enhances BMP-2-Induced Osteogenic Differentiation of Adipose-Derived Stem Cells and Bone Formation in Calvarial Defects. Tissue Engineering - Part A, 2015, 21, 2053-2065.	1.6	49
41	Novel Role for Cyclophilin A in Regulation of Chondrogenic Commitment and Endochondral Ossification. Molecular and Cellular Biology, 2015, 35, 2119-2130.	1.1	14
42	Glutamine-chitosan modified calcium phosphate nanoparticles for efficient siRNA delivery and osteogenic differentiation. Journal of Materials Chemistry B, 2015, 3, 6448-6455.	2.9	49
43	TGF-Î²1 conjugated chitosan collagen hydrogels induce chondrogenic differentiation of human synovium-derived stem cells. Journal of Biological Engineering, 2015, 9, 1.	2.0	129
44	Covalently conjugated transforming growth factor-Î²1 in modular chitosan hydrogels for the effective treatment of articular cartilage defects. Biomaterials Science, 2015, 3, 742-752.	2.6	62
45	Delivery of siRNA via cationic Sterosomes to enhance osteogenic differentiation of mesenchymal stem cells. Journal of Controlled Release, 2015, 217, 42-52.	4.8	63
46	Visible-light-initiated hydrogels preserving cartilage extracellular signaling for inducing chondrogenesis of mesenchymal stem cells. Acta Biomaterialia, 2015, 12, 30-41.	4.1	46
47	Biomimetic scaffolds facilitate healing of critical-sized segmental mandibular defects. American Journal of Otolaryngology - Head and Neck Medicine and Surgery, 2015, 36, 1-6.	0.6	23
48	Smooth Muscle Strips for Intestinal Tissue Engineering. PLoS ONE, 2014, 9, e114850.	1.1	19
49	Defining the Critical-Sized Defect in a Rat Segmental Mandibulectomy Model. JAMA Otolaryngology - Head and Neck Surgery, 2014, 140, 58.	1.2	12
50	Cartilaginous Extracellular Matrix-Modified Chitosan Hydrogels for Cartilage Tissue Engineering. ACS Applied Materials & Interfaces, 2014, 6, 20110-20121.	4.0	170
51	Targeting of ALK2, a Receptor for Bone Morphogenetic Proteins, Using the Cre/lox System to Enhance Osseous Regeneration by Adipose-Derived Stem Cells. Stem Cells Translational Medicine, 2014, 3, 1375-1380.	1.6	9
52	Osteo-/Odontogenic Differentiation of Induced Mesenchymal Stem Cells Generated through Epithelialâ€“Mesenchyme Transition of Cultured Human Keratinocytes. Journal of Endodontics, 2014, 40, 1796-1801.	1.4	8
53	Adipose-Derived Stem Cells and BMP-2 Delivery in Chitosan-Based 3D Constructs to Enhance Bone Regeneration in a Rat Mandibular Defect Model. Tissue Engineering - Part A, 2014, 20, 2169-2179.	1.6	58
54	Anionic carbohydrate-containing chitosan scaffolds for bone regeneration. Carbohydrate Polymers, 2013, 97, 587-596.	5.1	52

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55	NF-Î°B inhibits osteogenic differentiation of mesenchymal stem cells by promoting Î²-catenin degradation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9469-9474.	3.3	263
56	Injectable chitosan hyaluronic acid hydrogels for cartilage tissue engineering. Acta Biomaterialia, 2013, 9, 4779-4786.	4.1	280
57	Bone morphogenetic proteinâ€2â€“impregnated biomimetic scaffolds successfully induce bone healing in a marginal mandibular defect. Laryngoscope, 2013, 123, 1149-1155.	1.1	18
58	Customized biomimetic scaffolds created by indirect three-dimensional printing for tissue engineering. Biofabrication, 2013, 5, 045003.	3.7	125
59	Enhanced Osteogenesis of Adipose Derived Stem Cells with Noggin Suppression and Delivery of BMP-2. PLoS ONE, 2013, 8, e72474.	1.1	55
60	Recent Advances in 3D Printing of Tissue Engineering Scaffolds. Methods in Molecular Biology, 2012, 868, 257-267.	0.4	66
61	NELL-1 Promotes Cartilage Regeneration in an <i>In Vivo</i> Rabbit Model. Tissue Engineering - Part A, 2012, 18, 252-261.	1.6	43
62	Betaâ€tricalcium phosphate particles as a controlled release carrier of osteogenic proteins for bone tissue engineering. Journal of Biomedical Materials Research - Part A, 2012, 100A, 1680-1686.	2.1	16
63	Visible light crosslinkable chitosan hydrogels for tissue engineering. Acta Biomaterialia, 2012, 8, 1730-1738.	4.1	179
64	Chitosanâ€based nanoparticles as a sustained protein release carrier for tissue engineering applications. Journal of Biomedical Materials Research - Part A, 2012, 100A, 939-947.	2.1	68
65	High Doses of Bone Morphogenetic Protein 2 Induce Structurally Abnormal Bone and Inflammation <i>In Vivo</i>. Tissue Engineering - Part A, 2011, 17, 1389-1399.	1.6	470
66	Nell-1 Enhances Bone Regeneration in a Rat Critical-Sized Femoral Segmental Defect Model. Plastic and Reconstructive Surgery, 2011, 127, 580-587.	0.7	51
67	Dura Mater Stimulates Human Adipose-Derived Stromal Cells to Undergo Bone Formation in Mouse Calvarial Defects. Stem Cells, 2011, 29, 1241-1255.	1.4	92
68	The use of BMP-2 coupled â€" Nanosilver-PLGA composite grafts to induce bone repair in grossly infected segmental defects. Biomaterials, 2010, 31, 9293-9300.	5.7	121
69	Delivery of Lyophilized Nell-1 in a Rat Spinal Fusion Model. Tissue Engineering - Part A, 2010, 16, 2861-2870.	1.6	54
70	Effect of Nell-1 Delivery on Chondrocyte Proliferation and Cartilaginous Extracellular Matrix Deposition. Tissue Engineering - Part A, 2010, 16, 1791-1800.	1.6	41
71	Biomimetic apatite-coated alginate/chitosan microparticles as osteogenic protein carriers. Biomaterials, 2009, 30, 6094-6101.	5.7	115
72	Effect of scaffold architecture and pore size on smooth muscle cell growth. Journal of Biomedical Materials Research - Part A, 2008, 87A, 1010-1016.	2.1	115

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73	Evaluation of Small Intestinal Submucosa as Scaffolds for Intestinal Tissue Engineering. Journal of Surgical Research, 2008, 147, 168-171.	0.8	35
74	Intestinal Smooth Muscle Cell Maintenance by Basic Fibroblast Growth Factor. Tissue Engineering - Part A, 2008, 14, 1395-1402.	1.6	45
75	Modulation of protein delivery from modular polymer scaffolds. Biomaterials, 2007, 28, 1862-1870.	5.7	70
76	Magnetically actuable polymer nanocomposites for bioengineering applications. Journal of Materials Science, 2007, 42, 6139-6147.	1.7	10
77	Scaffold fabrication by indirect three-dimensional printing. Biomaterials, 2005, 26, 4281-4289.	5.7	243