

Sien Lin

List of Publications by Year in descending order

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75
papers

2,904
citations

172386

29
h-index

175177

52
g-index

81
all docs

81
docs citations

81
times ranked

4565
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanically resilient, injectable, and bioadhesive supramolecular gelatin hydrogels crosslinked by weak host-guest interactions assist cell infiltration and in situ tissue regeneration. <i>Biomaterials</i> , 2016, 101, 217-228.	5.7	249
2	Injectable stem cell-laden supramolecular hydrogels enhance in situ osteochondral regeneration via the sustained co-delivery of hydrophilic and hydrophobic chondrogenic molecules. <i>Biomaterials</i> , 2019, 210, 51-61.	5.7	179
3	Inhibition of Nrf2/HO-1 signaling leads to increased activation of the NLRP3 inflammasome in osteoarthritis. <i>Arthritis Research and Therapy</i> , 2019, 21, 300.	1.6	143
4	Sulfated hyaluronic acid hydrogels with retarded degradation and enhanced growth factor retention promote hMSC chondrogenesis and articular cartilage integrity with reduced hypertrophy. <i>Acta Biomaterialia</i> , 2017, 53, 329-342.	4.1	136
5	Organic Semiconducting Polymer Nanoparticles for Photoacoustic Labeling and Tracking of Stem Cells in the Second Near-Infrared Window. <i>ACS Nano</i> , 2018, 12, 12201-12211.	7.3	127
6	Nanocomposite hydrogels stabilized by self-assembled multivalent bisphosphonate-magnesium nanoparticles mediate sustained release of magnesium ion and promote in-situ bone regeneration. <i>Acta Biomaterialia</i> , 2017, 64, 389-400.	4.1	117
7	Robust Biopolymeric Supramolecular "Host" Guest Macromer-Hydrogels Reinforced by <i>In Situ</i> Formed Multivalent Nanoclusters for Cartilage Regeneration. <i>Macromolecules</i> , 2016, 49, 866-875.	2.2	102
8	Stepwise Differentiation of Mesenchymal Stem Cells Augments Tendon-Like Tissue Formation and Defect Repair <i>In Vivo</i> . <i>Stem Cells Translational Medicine</i> , 2016, 5, 1106-1116.	1.6	85
9	Gold Nanoclusters for NIR-Fluorescence Imaging of Bones. <i>Small</i> , 2020, 16, e2003851.	5.2	81
10	Hydrogels functionalized with N-cadherin mimetic peptide enhance osteogenesis of hMSCs by emulating the osteogenic niche. <i>Biomaterials</i> , 2016, 77, 44-52.	5.7	77
11	Remote Manipulation of Ligand Nano-Oscillations Regulates Adhesion and Polarization of Macrophages <i>In Vivo</i> . <i>Nano Letters</i> , 2017, 17, 6415-6427.	4.5	72
12	PLGA/β2-TCP composite scaffold incorporating salvianolic acid B promotes bone fusion by angiogenesis and osteogenesis in a rat spinal fusion model. <i>Biomaterials</i> , 2019, 196, 109-121.	5.7	69
13	Remote Control of Heterodimeric Magnetic Nanoswitch Regulates the Adhesion and Differentiation of Stem Cells. <i>Journal of the American Chemical Society</i> , 2018, 140, 5909-5913.	6.6	67
14	Magnetic Manipulation of Reversible Nanocaging Controls <i>In Vivo</i> Adhesion and Polarization of Macrophages. <i>ACS Nano</i> , 2018, 12, 5978-5994.	7.3	67
15	Remote Control of Multimodal Nanoscale Ligand Oscillations Regulates Stem Cell Adhesion and Differentiation. <i>ACS Nano</i> , 2017, 11, 9636-9649.	7.3	65
16	Synthetic presentation of noncanonical Wnt5a motif promotes mechanosensing-dependent differentiation of stem cells and regeneration. <i>Science Advances</i> , 2019, 5, eaaw3896.	4.7	64
17	Conformational manipulation of scale-up prepared single-chain polymeric nanogels for multiscale regulation of cells. <i>Nature Communications</i> , 2019, 10, 2705.	5.8	60
18	Remote Control of Intracellular Calcium Using Upconversion Nanotransducers Regulates Stem Cell Differentiation <i>In Vivo</i> . <i>Advanced Functional Materials</i> , 2018, 28, 1802642.	7.8	58

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19	The Effects of Secretion Factors from Umbilical Cord Derived Mesenchymal Stem Cells on Osteogenic Differentiation of Mesenchymal Stem Cells. <i>PLoS ONE</i> , 2015, 10, e0120593.	1.1	56
20	Synergistic effects on mesenchymal stem cell-based cartilage regeneration by chondrogenic preconditioning and mechanical stimulation. <i>Stem Cell Research and Therapy</i> , 2017, 8, 221.	2.4	52
21	Dysregulation of both miR-140-3p and miR-140-5p in synovial fluid correlate with osteoarthritis severity. <i>Bone and Joint Research</i> , 2017, 6, 612-618.	1.3	51
22	miRNA-29b improves bone healing in mouse fracture model. <i>Molecular and Cellular Endocrinology</i> , 2016, 430, 97-107.	1.6	47
23	Molecular Programming of NIR-Emissive Semiconducting Small Molecules for In Vivo High-Contrast Bioimaging Beyond 1500nm. <i>Advanced Materials</i> , 2022, 34, e2201263.	11.1	44
24	Glucocorticoid-Induced Osteoporosis in Growing Rats. <i>Calcified Tissue International</i> , 2014, 95, 362-373.	1.5	43
25	Nanocarrier-Mediated Codelivery of Small Molecular Drugs and siRNA to Enhance Chondrogenic Differentiation and Suppress Hypertrophy of Human Mesenchymal Stem Cells. <i>Advanced Functional Materials</i> , 2016, 26, 2463-2472.	7.8	42
26	Bioadhesive Polymersome for Localized and Sustained Drug Delivery at Pathological Sites with Harsh Enzymatic and Fluidic Environment via Supramolecular Host-Guest Complexation. <i>Small</i> , 2018, 14, 1702288.	5.2	40
27	Epigenetic memory gained by priming with osteogenic induction medium improves osteogenesis and other properties of mesenchymal stem cells. <i>Scientific Reports</i> , 2015, 5, 11056.	1.6	38
28	Anisotropic Nanoscale Presentation of Cell Adhesion Ligand Enhances the Recruitment of Diverse Integrins in Adhesion Structures and Mechanosensing-Dependent Differentiation of Stem Cells. <i>Advanced Functional Materials</i> , 2019, 29, 1806822.	7.8	38
29	Nanolayered hybrid mediates synergistic co-delivery of ligand and ligation activator for inducing stem cell differentiation and tissue healing. <i>Biomaterials</i> , 2017, 149, 12-28.	5.7	36
30	GPR120 is an important inflammatory regulator in the development of osteoarthritis. <i>Arthritis Research and Therapy</i> , 2018, 20, 163.	1.6	29
31	Partial loss of Smad7 function impairs bone remodeling, osteogenesis and enhances osteoclastogenesis in mice. <i>Bone</i> , 2014, 67, 46-55.	1.4	28
32	Attenuation of subchondral bone abnormal changes in osteoarthritis by inhibition of SDF-1 signaling. <i>Osteoarthritis and Cartilage</i> , 2017, 25, 986-994.	0.6	27
33	In-situ stable injectable collagen-based hydrogels for cell and growth factor delivery. <i>Materialia</i> , 2021, 15, 100954.	1.3	26
34	Three-dimensional CaP/gelatin lattice scaffolds with integrated osteoinductive surface topographies for bone tissue engineering. <i>Biofabrication</i> , 2015, 7, 015005.	3.7	25
35	Stem cell therapy for enhancement of bone consolidation in distraction osteogenesis. <i>Bone and Joint Research</i> , 2017, 6, 385-390.	1.3	25
36	Lgr5-overexpressing mesenchymal stem cells augment fracture healing through regulation of Wnt/ERK signaling pathways and mitochondrial dynamics. <i>FASEB Journal</i> , 2019, 33, 8565-8577.	0.2	25

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37	Epigenetic Modification of the CCL5/CCR1/ERK Axis Enhances Glioma Targeting in Dedifferentiation-Reprogrammed BMSCs. <i>Stem Cell Reports</i> , 2017, 8, 743-757.	2.3	21
38	The Effects of Atorvastatin on the Prevention of Osteoporosis and Dyslipidemia in the High-Fat-Fed Ovariectomized Rats. <i>Calcified Tissue International</i> , 2015, 96, 541-551.	1.5	19
39	Characterisation of multipotent stem cells from human peripheral blood using an improved protocol. <i>Journal of Orthopaedic Translation</i> , 2019, 19, 18-28.	1.9	19
40	Translational potential of ginsenoside Rb1 in managing progression of osteoarthritis. <i>Journal of Orthopaedic Translation</i> , 2016, 6, 27-33.	1.9	18
41	Aspirin prevents bone loss with little mechanical improvement in high-fat-fed ovariectomized rats. <i>European Journal of Pharmacology</i> , 2016, 791, 331-338.	1.7	18
42	Stepwise preconditioning enhances mesenchymal stem cell-based cartilage regeneration through epigenetic modification. <i>Osteoarthritis and Cartilage</i> , 2017, 25, 1541-1550.	0.6	18
43	Administration of allogeneic mesenchymal stem cells in lengthening phase accelerates early bone consolidation in rat distraction osteogenesis model. <i>Stem Cell Research and Therapy</i> , 2020, 11, 129.	2.4	17
44	Tenomodulin highly expressing MSCs as a better cell source for tendon injury healing. <i>Oncotarget</i> , 2017, 8, 77424-77435.	0.8	17
45	MicroRNA-378 contributes to osteoarthritis by regulating chondrocyte autophagy and bone marrow mesenchymal stem cell chondrogenesis. <i>Molecular Therapy - Nucleic Acids</i> , 2022, 28, 328-341.	2.3	17
46	Dual Delivery of BMP2 and IGF1 Through Injectable Hydrogel Promotes Cranial Bone Defect Healing. <i>Tissue Engineering - Part A</i> , 2022, 28, 760-769.	1.6	16
47	Asiatic acid protects articular cartilage through promoting chondrogenesis and inhibiting inflammation and hypertrophy in osteoarthritis. <i>European Journal of Pharmacology</i> , 2021, 907, 174265.	1.7	15
48	Prevention of osteopenia and dyslipidemia in rats after ovariectomy with combined aspirin and low-dose diethylstilbestrol. <i>Biomedical and Environmental Sciences</i> , 2013, 26, 249-57.	0.2	15
49	A bioactive compliant vascular graft modulates macrophage polarization and maintains patency with robust vascular remodeling. <i>Bioactive Materials</i> , 2023, 19, 167-178.	8.6	15
50	Sox11-modified mesenchymal stem cells accelerate cartilage defect repair in SD rats. <i>Cell and Tissue Research</i> , 2019, 376, 247-255.	1.5	14
51	Systemic Administration of Allogeneic Mesenchymal Stem Cells Does Not Halt Osteoporotic Bone Loss in Ovariectomized Rats. <i>PLoS ONE</i> , 2016, 11, e0163131.	1.1	13
52	<p>Upregulation of FTX Promotes Osteosarcoma Tumorigenesis by Increasing SOX4 Expression via miR-214-5p</p>. <i>OncoTargets and Therapy</i> , 2020, Volume 13, 7125-7136.	1.0	11
53	Human embryonic stem cell-derived neural crest model unveils CD55 as a cancer stem cell regulator for therapeutic targeting in <i>MYCN</i>-amplified neuroblastoma. <i>Neuro-Oncology</i> , 2022, 24, 872-885.	0.6	11
54	U0126 promotes osteogenesis of rat bone-marrow-derived mesenchymal stem cells by activating BMP/Smad signaling pathway. <i>Cell and Tissue Research</i> , 2015, 359, 537-545.	1.5	10

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55	Antiosteoporotic effects of <i>Alpinia officinarum</i> Hance through stimulation of osteoblasts associated with antioxidant effects. <i>Journal of Orthopaedic Translation</i> , 2016, 4, 75-91.	1.9	10
56	Surface decoration of development-inspired synthetic N-cadherin motif via Ac-BP promotes osseointegration of metal implants. <i>Bioactive Materials</i> , 2021, 6, 1353-1364.	8.6	10
57	DANCR Mediates the Rescuing Effects of Sesamin on Postmenopausal Osteoporosis Treatment via Orchestrating Osteogenesis and Osteoclastogenesis. <i>Nutrients</i> , 2021, 13, 4455.	1.7	10
58	Ginsenoside Rb1 does not halt osteoporotic bone loss in ovariectomized rats. <i>PLoS ONE</i> , 2018, 13, e0202885.	1.1	9
59	Local administration of allogeneic or autologous bone marrow-derived mesenchymal stromal cells enhances bone formation similarly in distraction osteogenesis. <i>Cytotherapy</i> , 2021, 23, 590-598.	0.3	9
60	Rejuvenated ageing mesenchymal stem cells by stepwise preconditioning ameliorates surgery-induced osteoarthritis in rabbits. <i>Bone and Joint Research</i> , 2021, 10, 10-21.	1.3	9
61	Evaluation of morphological parameters of bone formation in Spragueâ€Dawley rats of different ages by <i>in vivo</i> fluorochrome labeling. <i>Italian Journal of Zoology</i> , 2015, 82, 33-40.	0.6	8
62	Asiatic Acid Attenuates Bone Loss by Regulating Osteoclastic Differentiation. <i>Calcified Tissue International</i> , 2019, 105, 531-545.	1.5	8
63	Human fetal mesenchymal stem cells secretome promotes scarless diabetic wound healing through heatâ€shock protein family. <i>Bioengineering and Translational Medicine</i> , 2023, 8, .	3.9	8
64	Sesamin Promotes Osteoporotic Fracture Healing by Activating Chondrogenesis and Angiogenesis Pathways. <i>Nutrients</i> , 2022, 14, 2106.	1.7	7
65	Cranial Bone Transport Promotes Angiogenesis, Neurogenesis, and Modulates Meningeal Lymphatic Function in Middle Cerebral Artery Occlusion Rats. <i>Stroke</i> , 2022, 53, 1373-1385.	1.0	6
66	Calcium Spike Patterns Reveal Linkage of Electrical Stimulus and MSC Osteogenic Differentiation. <i>IEEE Transactions on Nanobioscience</i> , 2019, 18, 3-9.	2.2	5
67	The effects of tubular structure on biomaterial aided bone regeneration in distraction osteogenesis. <i>Journal of Orthopaedic Translation</i> , 2020, 25, 80-86.	1.9	5
68	Coenzyme Q10 Sunscreen Prevents Progression of Ultraviolet-Induced Skin Damage in Mice. <i>BioMed Research International</i> , 2020, 2020, 1-8.	0.9	4
69	Bone Imaging: Gold Nanoclusters for NIRâ€Fluorescence Imaging of Bones (Small 43/2020). <i>Small</i> , 2020, 16, 2070237.	5.2	3
70	Antler Collagen/Chitosan Scaffolds Improve Critical Calvarial Defect Healing in Rats. <i>Journal of Biomaterials and Tissue Engineering</i> , 2015, 5, 774-779.	0.0	3
71	Probing the role of methyl methacrylate release from spacer materials in induced membrane bone healing. <i>Journal of Orthopaedic Research</i> , 2021, , .	1.2	1
72	A bioactive synthetic membrane improves bone healing in a preclinical nonunion model. <i>Injury</i> , 2022, , .	0.7	1

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73	Smad7 partially knockout mouse: a new animal model of osteoarthritis. Journal of Orthopaedic Translation, 2016, 7, 92.	1.9	0
74	In-Situ Stable Injectable Collagen-Based Hydrogels for Cell and Growth Factor Delivery. SSRN Electronic Journal, 0, , .	0.4	0
75	The emerging translational potential of GDF11 in chronic wound healing. Journal of Orthopaedic Translation, 2022, , .	1.9	0