Sien Lin

List of Publications by Citations

66 papers	1,921 citations	26 h-index	42 g-index
81 ext. papers	2,443 ext. citations	7.6 avg, IF	4.78 L-index

#	Paper	IF	Citations
66	Mechanically resilient, injectable, and bioadhesive supramolecular gelatin hydrogels crosslinked by weak host-guest interactions assist cell infiltration and in situ tissue regeneration. *Biomaterials*, **2016**, 101, 217-28	15.6	180
65	Injectable stem cell-laden supramolecular hydrogels enhance in situ osteochondral regeneration via the sustained co-delivery of hydrophilic and hydrophobic chondrogenic molecules. *Biomaterials*, **2019**, 210, 51-61	15.6	108
64	Sulfated hyaluronic acid hydrogels with retarded degradation and enhanced growth factor retention promote hMSC chondrogenesis and articular cartilage integrity with reduced hypertrophy. *Acta Biomaterialia*, **2017**, 53, 329-342	10.8	96
63	Organic Semiconducting Polymer Nanoparticles for Photoacoustic Labeling and Tracking of Stem Cells in the Second Near-Infrared Window. *ACS Nano*, **2018**, 12, 12201-12211	16.7	94
62	Robust Biopolymeric Supramolecular Host□Guest Macromer□Hydrogels Reinforced by in Situ Formed Multivalent Nanoclusters for Cartilage Regeneration. *Macromolecules*, **2016**, 49, 866-875	5.5	82
61	Nanocomposite hydrogels stabilized by self-assembled multivalent bisphosphonate-magnesium nanoparticles mediate sustained release of magnesium ion and promote in-situ bone regeneration. *Acta Biomaterialia*, **2017**, 64, 389-400	10.8	76
60	Stepwise Differentiation of Mesenchymal Stem Cells Augments Tendon-Like Tissue Formation and Defect Repair In Vivo. *Stem Cells Translational Medicine*, **2016**, 5, 1106-16	6.9	71
59	Hydrogels functionalized with N-cadherin mimetic peptide enhance osteogenesis of hMSCs by emulating the osteogenic niche. *Biomaterials*, **2016**, 77, 44-52	15.6	63
58	Inhibition of Nrf2/HO-1 signaling leads to increased activation of the NLRP3 inflammasome in osteoarthritis. *Arthritis Research and Therapy*, **2019**, 21, 300	5.7	56
57	Remote Manipulation of Ligand Nano-Oscillations Regulates Adhesion and Polarization of Macrophages in Vivo. *Nano Letters*, **2017**, 17, 6415-6427	11.5	52
56	Remote Control of Heterodimeric Magnetic Nanoswitch Regulates the Adhesion and Differentiation of Stem Cells. *Journal of the American Chemical Society*, **2018**, 140, 5909-5913	16.4	50
55	Remote Control of Intracellular Calcium Using Upconversion Nanotransducers Regulates Stem Cell Differentiation In Vivo. *Advanced Functional Materials*, **2018**, 28, 1802642	15.6	48
54	Remote Control of Multimodal Nanoscale Ligand Oscillations Regulates Stem Cell Adhesion and Differentiation. *ACS Nano*, **2017**, 11, 9636-9649	16.7	47
53	Magnetic Manipulation of Reversible Nanocaging Controls In Vivo Adhesion and Polarization of Macrophages. *ACS Nano*, **2018**, 12, 5978-5994	16.7	47
52	Dysregulation of both miR-140-3p and miR-140-5p in synovial fluid correlate with osteoarthritis severity. *Bone and Joint Research*, **2017**, 6, 612-618	4.2	41
51	PLGA/□TCP composite scaffold incorporating salvianolic acid B promotes bone fusion by angiogenesis and osteogenesis in a rat spinal fusion model. *Biomaterials*, **2019**, 196, 109-121	15.6	41
50	Synthetic presentation of noncanonical Wnt5a motif promotes mechanosensing-dependent differentiation of stem cells and regeneration. *Science Advances*, **2019**, 5, eaaw3896	14.3	40

49	The effects of secretion factors from umbilical cord derived mesenchymal stem cells on osteogenic differentiation of mesenchymal stem cells. *PLoS ONE*, **2015**, 10, e0120593	3.7	40
48	miRNA-29b improves bone healing in mouse fracture model. *Molecular and Cellular Endocrinology*, **2016**, 430, 97-107	4.4	40
47	Conformational manipulation of scale-up prepared single-chain polymeric nanogels for multiscale regulation of cells. *Nature Communications*, **2019**, 10, 2705	17.4	37
46	Nanocarrier-Mediated Codelivery of Small Molecular Drugs and siRNA to Enhance Chondrogenic Differentiation and Suppress Hypertrophy of Human Mesenchymal Stem Cells. *Advanced Functional Materials*, **2016**, 26, 2463-2472	15.6	37
45	Synergistic effects on mesenchymal stem cell-based cartilage regeneration by chondrogenic preconditioning and mechanical stimulation. *Stem Cell Research and Therapy*, **2017**, 8, 221	8.3	36
44	Epigenetic memory gained by priming with osteogenic induction medium improves osteogenesis and other properties of mesenchymal stem cells. *Scientific Reports*, **2015**, 5, 11056	4.9	35
43	Glucocorticoid-induced osteoporosis in growing rats. *Calcified Tissue International*, **2014**, 95, 362-73	3.9	34
42	Bioadhesive Polymersome for Localized and Sustained Drug Delivery at Pathological Sites with Harsh Enzymatic and Fluidic Environment via Supramolecular Host-Guest Complexation. *Small*, **2018**, 14, 1702288	11	29
41	Gold Nanoclusters for NIR-II Fluorescence Imaging of Bones. *Small*, **2020**, 16, e2003851	11	27
40	Anisotropic Nanoscale Presentation of Cell Adhesion Ligand Enhances the Recruitment of Diverse Integrins in Adhesion Structures and Mechanosensing-Dependent Differentiation of Stem Cells. *Advanced Functional Materials*, **2019**, 29, 1806822	15.6	26
39	Nanolayered hybrid mediates synergistic co-delivery of ligand and ligation activator for inducing stem cell differentiation and tissue healing. *Biomaterials*, **2017**, 149, 12-28	15.6	25
38	Attenuation of subchondral bone abnormal changes in osteoarthritis by inhibition of SDF-1 signaling. *Osteoarthritis and Cartilage*, **2017**, 25, 986-994	6.2	22
37	Partial loss of Smad7 function impairs bone remodeling, osteogenesis and enhances osteoclastogenesis in mice. *Bone*, **2014**, 67, 46-55	4.7	22
36	Three-dimensional CaP/gelatin lattice scaffolds with integrated osteoinductive surface topographies for bone tissue engineering. *Biofabrication*, **2015**, 7, 015005	10.5	22
35	GPR120 is an important inflammatory regulator in the development of osteoarthritis. *Arthritis Research and Therapy*, **2018**, 20, 163	5.7	20
34	Lgr5-overexpressing mesenchymal stem cells augment fracture healing through regulation of Wnt/ERK signaling pathways and mitochondrial dynamics. *FASEB Journal*, **2019**, 33, 8565-8577	0.9	18
33	Stem cell therapy for enhancement of bone consolidation in distraction osteogenesis: A contemporary review of experimental studies. *Bone and Joint Research*, **2017**, 6, 385-390	4.2	18
32	Epigenetic Modification of the CCL5/CCR1/ERK Axis Enhances Glioma Targeting in Dedifferentiation-Reprogrammed BMSCs. *Stem Cell Reports*, **2017**, 8, 743-757	8	17

31	Stepwise preconditioning enhances mesenchymal stem cell-based cartilage regeneration through epigenetic modification. *Osteoarthritis and Cartilage*, **2017**, 25, 1541-1550	6.2	17
30	The effects of atorvastatin on the prevention of osteoporosis and dyslipidemia in the high-fat-fed ovariectomized rats. *Calcified Tissue International*, **2015**, 96, 541-51	3.9	15
29	Translational potential of ginsenoside Rb1 in managing progression of osteoarthritis. *Journal of Orthopaedic Translation*, **2016**, 6, 27-33	4.2	15
28	Prevention of osteopenia and dyslipidemia in rats after ovariectomy with combined aspirin and low-dose diethylstilbestrol. *Biomedical and Environmental Sciences*, **2013**, 26, 249-57	1.1	13
27	Aspirin prevents bone loss with little mechanical improvement in high-fat-fed ovariectomized rats. *European Journal of Pharmacology*, **2016**, 791, 331-338	5.3	13
26	Characterisation of multipotent stem cells from human peripheral blood using an improved protocol. *Journal of Orthopaedic Translation*, **2019**, 19, 18-28	4.2	12
25	In-situ stable injectable collagen-based hydrogels for cell and growth factor delivery. *Materialia*, **2021**, 15, 100954-100954	3.2	12
24	Tenomodulin highly expressing MSCs as a better cell source for tendon injury healing. *Oncotarget*, **2017**, 8, 77424-77435	3.3	11
23	Systemic Administration of Allogeneic Mesenchymal Stem Cells Does Not Halt Osteoporotic Bone Loss in Ovariectomized Rats. *PLoS ONE*, **2016**, 11, e0163131	3.7	11
22	Antiosteoporotic effects of Hance through stimulation of osteoblasts associated with antioxidant effects. *Journal of Orthopaedic Translation*, **2016**, 4, 75-91	4.2	8
21	U0126 promotes osteogenesis of rat bone-marrow-derived mesenchymal stem cells by activating BMP/Smad signaling pathway. *Cell and Tissue Research*, **2015**, 359, 537-545	4.2	8
20	Sox11-modified mesenchymal stem cells accelerate cartilage defect repair in SD rats. *Cell and Tissue Research*, **2019**, 376, 247-255	4.2	8
19	Administration of allogeneic mesenchymal stem cells in lengthening phase accelerates early bone consolidation in rat distraction osteogenesis model. *Stem Cell Research and Therapy*, **2020**, 11, 129	8.3	7
18	Upregulation of FTX Promotes Osteosarcoma Tumorigenesis by Increasing SOX4 Expression via miR-214-5p. *OncoTargets and Therapy*, **2020**, 13, 7125-7136	4.4	7
17	Molecular Programming of NIR-IIb-Emissive Semiconducting Small Molecules for In Vivo High-Contrast Bioimaging Beyond 1500 nm.. *Advanced Materials*, **2022**, e2201263	24	7
16	Evaluation of morphological parameters of bone formation in SpragueDawley rats of different ages by in vivo fluorochrome labeling. *Italian Journal of Zoology*, **2015**, 82, 33-40		6
15	Asiatic Acid Attenuates Bone Loss by Regulating Osteoclastic Differentiation. *Calcified Tissue International*, **2019**, 105, 531-545	3.9	6
14	Ginsenoside Rb1 does not halt osteoporotic bone loss in ovariectomized rats. *PLoS ONE*, **2018**, 13, e0202885	3.7	6

13	Surface decoration of development-inspired synthetic N-cadherin motif via Ac-BP promotes osseointegration of metal implants. *Bioactive Materials*, **2021**, 6, 1353-1364	16.7	5
12	Asiatic acid protects articular cartilage through promoting chondrogenesis and inhibiting inflammation and hypertrophy in osteoarthritis. *European Journal of Pharmacology*, **2021**, 907, 174265	5.3	5
11	The effects of tubular structure on biomaterial aided bone regeneration in distraction osteogenesis. *Journal of Orthopaedic Translation*, **2020**, 25, 80-86	4.2	3
10	Calcium Spike Patterns Reveal Linkage of Electrical Stimulus and MSC Osteogenic Differentiation. *IEEE Transactions on Nanobioscience*, **2019**, 18, 3-9	3.4	3
9	Rejuvenated ageing mesenchymal stem cells by stepwise preconditioning ameliorates surgery-induced osteoarthritis in rabbits. *Bone and Joint Research*, **2021**, 10, 10-21	4.2	3
8	DANCR Mediates the Rescuing Effects of Sesamin on Postmenopausal Osteoporosis Treatment via Orchestrating Osteogenesis and Osteoclastogenesis.. *Nutrients*, **2021**, 13,	6.7	3
7	Bone Imaging: Gold Nanoclusters for NIR-II Fluorescence Imaging of Bones (Small 43/2020). *Small*, **2020**, 16, 2070237	11	2
6	Local administration of allogeneic or autologous bone marrow-derived mesenchymal stromal cells enhances bone formation similarly in distraction osteogenesis. *Cytotherapy*, **2021**, 23, 590-598	4.8	2
5	MicroRNA-378 contributes to osteoarthritis by regulating chondrocyte autophagy and bone marrow mesenchymal stem cell chondrogenesis.. *Molecular Therapy - Nucleic Acids*, **2022**, 28, 328-341	10.7	2
4	Sesamin Promotes Osteoporotic Fracture Healing by Activating Chondrogenesis and Angiogenesis Pathways. *Nutrients*, **2022**, 14, 2106	6.7	2
3	Coenzyme Q Sunscreen Prevents Progression of Ultraviolet-Induced Skin Damage in Mice. *BioMed Research International*, **2020**, 2020, 9039843	3	1
2	A bioactive compliant vascular graft modulates macrophage polarization and maintains patency with robust vascular remodeling.. *Bioactive Materials*, **2023**, 19, 167-178	16.7	1
1	Cranial Bone Transport Promotes Angiogenesis, Neurogenesis, and Modulates Meningeal Lymphatic Function in Middle Cerebral Artery Occlusion Rats.. *Stroke*, **2022**, STROKEAHA121037912	6.7	0