

# Sien Lin

## List of Publications by Year in Descending Order

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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.

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	A bioactive compliant vascular graft modulates macrophage polarization and maintains patency with robust vascular remodeling.. <i>Bioactive Materials</i> , <b>2023</b> , 19, 167-178	16.7	1
65	Cranial Bone Transport Promotes Angiogenesis, Neurogenesis, and Modulates Meningeal Lymphatic Function in Middle Cerebral Artery Occlusion Rats.. <i>Stroke</i> , <b>2022</b> , STROKEAHA121037912	6.7	0
64	Molecular Programming of NIR-IIb-Emissive Semiconducting Small Molecules for In Vivo High-Contrast Bioimaging Beyond 1500 nm.. <i>Advanced Materials</i> , <b>2022</b> , e2201263	24	7
63	MicroRNA-378 contributes to osteoarthritis by regulating chondrocyte autophagy and bone marrow mesenchymal stem cell chondrogenesis.. <i>Molecular Therapy - Nucleic Acids</i> , <b>2022</b> , 28, 328-341	10.7	2
62	Sesamin Promotes Osteoporotic Fracture Healing by Activating Chondrogenesis and Angiogenesis Pathways. <i>Nutrients</i> , <b>2022</b> , 14, 2106	6.7	2
61	Surface decoration of development-inspired synthetic N-cadherin motif via Ac-BP promotes osseointegration of metal implants. <i>Bioactive Materials</i> , <b>2021</b> , 6, 1353-1364	16.7	5
60	In-situ stable injectable collagen-based hydrogels for cell and growth factor delivery. <i>Materialia</i> , <b>2021</b> , 15, 100954-100954	3.2	12
59	Local administration of allogeneic or autologous bone marrow-derived mesenchymal stromal cells enhances bone formation similarly in distraction osteogenesis. <i>Cytotherapy</i> , <b>2021</b> , 23, 590-598	4.8	2
58	Asiatic acid protects articular cartilage through promoting chondrogenesis and inhibiting inflammation and hypertrophy in osteoarthritis. <i>European Journal of Pharmacology</i> , <b>2021</b> , 907, 174265	5.3	5
57	Rejuvenated ageing mesenchymal stem cells by stepwise preconditioning ameliorates surgery-induced osteoarthritis in rabbits. <i>Bone and Joint Research</i> , <b>2021</b> , 10, 10-21	4.2	3
56	DANCR Mediates the Rescuing Effects of Sesamin on Postmenopausal Osteoporosis Treatment via Orchestrating Osteogenesis and Osteoclastogenesis.. <i>Nutrients</i> , <b>2021</b> , 13,	6.7	3
55	The effects of tubular structure on biomaterial aided bone regeneration in distraction osteogenesis. <i>Journal of Orthopaedic Translation</i> , <b>2020</b> , 25, 80-86	4.2	3
54	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> , <b>2020</b> , 11, 129	8.3	7
53	Gold Nanoclusters for NIR-II Fluorescence Imaging of Bones. <i>Small</i> , <b>2020</b> , 16, e2003851	11	27
52	Upregulation of FTX Promotes Osteosarcoma Tumorigenesis by Increasing SOX4 Expression via miR-214-5p. <i>OncoTargets and Therapy</i> , <b>2020</b> , 13, 7125-7136	4.4	7
51	Bone Imaging: Gold Nanoclusters for NIR-II Fluorescence Imaging of Bones (Small 43/2020). <i>Small</i> , <b>2020</b> , 16, 2070237	11	2
50	Coenzyme Q Sunscreen Prevents Progression of Ultraviolet-Induced Skin Damage in Mice. <i>BioMed Research International</i> , <b>2020</b> , 2020, 9039843	3	1

49	Conformational manipulation of scale-up prepared single-chain polymeric nanogels for multiscale regulation of cells. <i>Nature Communications</i> , <b>2019</b> , 10, 2705	17.4	37
48	Characterisation of multipotent stem cells from human peripheral blood using an improved protocol. <i>Journal of Orthopaedic Translation</i> , <b>2019</b> , 19, 18-28	4.2	12
47	Lgr5-overexpressing mesenchymal stem cells augment fracture healing through regulation of Wnt/ERK signaling pathways and mitochondrial dynamics. <i>FASEB Journal</i> , <b>2019</b> , 33, 8565-8577	0.9	18
46	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> , <b>2019</b> , 210, 51-61	15.6	108
45	Asiatic Acid Attenuates Bone Loss by Regulating Osteoclastic Differentiation. <i>Calcified Tissue International</i> , <b>2019</b> , 105, 531-545	3.9	6
44	Synthetic presentation of noncanonical Wnt5a motif promotes mechanosensing-dependent differentiation of stem cells and regeneration. <i>Science Advances</i> , <b>2019</b> , 5, eaaw3896	14.3	40
43	Inhibition of Nrf2/HO-1 signaling leads to increased activation of the NLRP3 inflammasome in osteoarthritis. <i>Arthritis Research and Therapy</i> , <b>2019</b> , 21, 300	5.7	56
42	Calcium Spike Patterns Reveal Linkage of Electrical Stimulus and MSC Osteogenic Differentiation. <i>IEEE Transactions on Nanobioscience</i> , <b>2019</b> , 18, 3-9	3.4	3
41	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> , <b>2019</b> , 29, 1806822	15.6	26
40	Sox11-modified mesenchymal stem cells accelerate cartilage defect repair in SD rats. <i>Cell and Tissue Research</i> , <b>2019</b> , 376, 247-255	4.2	8
39	PLGA/βTCP composite scaffold incorporating salvianolic acid B promotes bone fusion by angiogenesis and osteogenesis in a rat spinal fusion model. <i>Biomaterials</i> , <b>2019</b> , 196, 109-121	15.6	41
38	Remote Control of Heterodimeric Magnetic Nanoswitch Regulates the Adhesion and Differentiation of Stem Cells. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 5909-5913	16.4	50
37	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> , <b>2018</b> , 14, 1702288	11	29
36	GPR120 is an important inflammatory regulator in the development of osteoarthritis. <i>Arthritis Research and Therapy</i> , <b>2018</b> , 20, 163	5.7	20
35	Organic Semiconducting Polymer Nanoparticles for Photoacoustic Labeling and Tracking of Stem Cells in the Second Near-Infrared Window. <i>ACS Nano</i> , <b>2018</b> , 12, 12201-12211	16.7	94
34	Ginsenoside Rb1 does not halt osteoporotic bone loss in ovariectomized rats. <i>PLoS ONE</i> , <b>2018</b> , 13, e0202885	3.8	6
33	Remote Control of Intracellular Calcium Using Upconversion Nanotransducers Regulates Stem Cell Differentiation In Vivo. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1802642	15.6	48
32	Magnetic Manipulation of Reversible Nanocaging Controls In Vivo Adhesion and Polarization of Macrophages. <i>ACS Nano</i> , <b>2018</b> , 12, 5978-5994	16.7	47

31	Attenuation of subchondral bone abnormal changes in osteoarthritis by inhibition of SDF-1 signaling. <i>Osteoarthritis and Cartilage</i> , <b>2017</b> , 25, 986-994	6.2	22
30	Epigenetic Modification of the CCL5/CCR1/ERK Axis Enhances Glioma Targeting in Dedifferentiation-Reprogrammed BMSCs. <i>Stem Cell Reports</i> , <b>2017</b> , 8, 743-757	8	17
29	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> , <b>2017</b> , 53, 329-342	10.8	96
28	Stepwise preconditioning enhances mesenchymal stem cell-based cartilage regeneration through epigenetic modification. <i>Osteoarthritis and Cartilage</i> , <b>2017</b> , 25, 1541-1550	6.2	17
27	Nanolayered hybrid mediates synergistic co-delivery of ligand and ligation activator for inducing stem cell differentiation and tissue healing. <i>Biomaterials</i> , <b>2017</b> , 149, 12-28	15.6	25
26	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> , <b>2017</b> , 64, 389-400	10.8	76
25	Synergistic effects on mesenchymal stem cell-based cartilage regeneration by chondrogenic preconditioning and mechanical stimulation. <i>Stem Cell Research and Therapy</i> , <b>2017</b> , 8, 221	8.3	36
24	Remote Control of Multimodal Nanoscale Ligand Oscillations Regulates Stem Cell Adhesion and Differentiation. <i>ACS Nano</i> , <b>2017</b> , 11, 9636-9649	16.7	47
23	Remote Manipulation of Ligand Nano-Oscillations Regulates Adhesion and Polarization of Macrophages in Vivo. <i>Nano Letters</i> , <b>2017</b> , 17, 6415-6427	11.5	52
22	Stem cell therapy for enhancement of bone consolidation in distraction osteogenesis: A contemporary review of experimental studies. <i>Bone and Joint Research</i> , <b>2017</b> , 6, 385-390	4.2	18
21	Dysregulation of both miR-140-3p and miR-140-5p in synovial fluid correlate with osteoarthritis severity. <i>Bone and Joint Research</i> , <b>2017</b> , 6, 612-618	4.2	41
20	Tenomodulin highly expressing MSCs as a better cell source for tendon injury healing. <i>Oncotarget</i> , <b>2017</b> , 8, 77424-77435	3.3	11
19	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> , <b>2016</b> , 101, 217-28	15.6	180
18	Robust Biopolymeric Supramolecular Host-Guest Macromer Hydrogels Reinforced by in Situ Formed Multivalent Nanoclusters for Cartilage Regeneration. <i>Macromolecules</i> , <b>2016</b> , 49, 866-875	5.5	82
17	Hydrogels functionalized with N-cadherin mimetic peptide enhance osteogenesis of hMSCs by emulating the osteogenic niche. <i>Biomaterials</i> , <b>2016</b> , 77, 44-52	15.6	63
16	Antiosteoporotic effects of Hance through stimulation of osteoblasts associated with antioxidant effects. <i>Journal of Orthopaedic Translation</i> , <b>2016</b> , 4, 75-91	4.2	8
15	Systemic Administration of Allogeneic Mesenchymal Stem Cells Does Not Halt Osteoporotic Bone Loss in Ovariectomized Rats. <i>PLoS ONE</i> , <b>2016</b> , 11, e0163131	3.7	11
14	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> , <b>2016</b> , 26, 2463-2472	15.6	37

13	Translational potential of ginsenoside Rb1 in managing progression of osteoarthritis. <i>Journal of Orthopaedic Translation</i> , <b>2016</b> , 6, 27-33	4.2	15
12	miRNA-29b improves bone healing in mouse fracture model. <i>Molecular and Cellular Endocrinology</i> , <b>2016</b> , 430, 97-107	4.4	40
11	Stepwise Differentiation of Mesenchymal Stem Cells Augments Tendon-Like Tissue Formation and Defect Repair In Vivo. <i>Stem Cells Translational Medicine</i> , <b>2016</b> , 5, 1106-16	6.9	71
10	Aspirin prevents bone loss with little mechanical improvement in high-fat-fed ovariectomized rats. <i>European Journal of Pharmacology</i> , <b>2016</b> , 791, 331-338	5.3	13
9	Evaluation of morphological parameters of bone formation in SpragueDawley rats of different ages by in vivo fluorochrome labeling. <i>Italian Journal of Zoology</i> , <b>2015</b> , 82, 33-40		6
8	Epigenetic memory gained by priming with osteogenic induction medium improves osteogenesis and other properties of mesenchymal stem cells. <i>Scientific Reports</i> , <b>2015</b> , 5, 11056	4.9	35
7	The effects of atorvastatin on the prevention of osteoporosis and dyslipidemia in the high-fat-fed ovariectomized rats. <i>Calcified Tissue International</i> , <b>2015</b> , 96, 541-51	3.9	15
6	The effects of secretion factors from umbilical cord derived mesenchymal stem cells on osteogenic differentiation of mesenchymal stem cells. <i>PLoS ONE</i> , <b>2015</b> , 10, e0120593	3.7	40
5	U0126 promotes osteogenesis of rat bone-marrow-derived mesenchymal stem cells by activating BMP/Smad signaling pathway. <i>Cell and Tissue Research</i> , <b>2015</b> , 359, 537-545	4.2	8
4	Three-dimensional CaP/gelatin lattice scaffolds with integrated osteoinductive surface topographies for bone tissue engineering. <i>Biofabrication</i> , <b>2015</b> , 7, 015005	10.5	22
3	Partial loss of Smad7 function impairs bone remodeling, osteogenesis and enhances osteoclastogenesis in mice. <i>Bone</i> , <b>2014</b> , 67, 46-55	4.7	22
2	Glucocorticoid-induced osteoporosis in growing rats. <i>Calcified Tissue International</i> , <b>2014</b> , 95, 362-73	3.9	34
1	Prevention of osteopenia and dyslipidemia in rats after ovariectomy with combined aspirin and low-dose diethylstilbestrol. <i>Biomedical and Environmental Sciences</i> , <b>2013</b> , 26, 249-57	1.1	13