Hang Lin

List of Publications by Year
in descending order

91 papers	4,731 citations	93792 39 h-index	116156 66 g-index
94 all docs	94 docs citations	94 times ranked	6732 citing authors

#	Article	IF	Citations
1	Engineering osteoarthritic cartilage model through differentiating senescent human mesenchymal stem cells for testing disease-modifying drugs. Science China Life Sciences, 2022, 65, 309-327.	2.3	9
2	Novel role of estrogen receptor-Î± on regulating chondrocyte phenotype and response to mechanical loading. Osteoarthritis and Cartilage, 2022, 30, 302-314.	0.6	8
3	Role of Canonical Wnt/Î²-Catenin Pathway in Regulating Chondrocytic Hypertrophy in Mesenchymal Stem Cell-Based Cartilage Tissue Engineering. Frontiers in Cell and Developmental Biology, 2022, 10, 812081.	1.8	7
4	Engineering pre-vascularized bone-like tissue from human mesenchymal stem cells through simulating endochondral ossification. Biomaterials, 2022, 283, 121451.	5.7	10
5	Human Mesenchymal Stem Cellâ€Derived Miniature Joint System for Disease Modeling and Drug Testing. Advanced Science, 2022, 9, e2105909.	5.6	22
6	Generation of hyaline-like cartilage tissue from human mesenchymal stromal cells within the self-generated extracellular matrix. Acta Biomaterialia, 2022, 149, 150-166.	4.1	3
7	Potential Methods of Targeting Cellular Aging Hallmarks to Reverse Osteoarthritic Phenotype of Chondrocytes. Biology, 2022, 11, 996.	1.3	3
8	Dynamic loading enhances chondrogenesis of human chondrocytes within a biodegradable resilient hydrogel. Biomaterials Science, 2021, 9, 5011-5024.	2.6	14
9	Current Models for Development of Disease-Modifying Osteoarthritis Drugs. Tissue Engineering - Part C: Methods, 2021, 27, 124-138.	1.1	33
10	Enhancing the potential of aged human articular chondrocytes for highâ€quality cartilage regeneration. FASEB Journal, 2021, 35, e21410.	0.2	5
11	Senolytic Peptide FOXO4-DRI Selectively Removes Senescent Cells From in vitro Expanded Human Chondrocytes. Frontiers in Bioengineering and Biotechnology, 2021, 9, 677576.	2.0	15
12	Modeling Joint Pain on a Chip: integrating sensory neurons in the microJoint to model osteoarthritis. Journal of Pain, 2021, 22, 583.	0.7	3
13	The Effects of Macrophage Phenotype on Osteogenic Differentiation of MSCs in the Presence of Polyethylene Particles. Biomedicines, 2021, 9, 499.	1.4	11
14	Urolithin A Protects Chondrocytes From Mechanical Overloading-Induced Injuries. Frontiers in Pharmacology, 2021, 12, 703847.	1.6	12
15	Caveolin-1 mediates soft scaffold-enhanced adipogenesis of human mesenchymal stem cells. Stem Cell Research and Therapy, 2021, 12, 347.	2.4	11
16	Sequential growth factor exposure of human Adâ€'MSCs improves chondrogenic differentiation in an osteochondral biphasic implant. Experimental and Therapeutic Medicine, 2021, 22, 1282.	0.8	2
17	Graphene oxide-functionalized nanocomposites promote osteogenesis of human mesenchymal stem cells via enhancement of BMP-SMAD1/5 signaling pathway. Biomaterials, 2021, 277, 121082.	5.7	41
18	Mesenchymal stem cell-derived extracellular matrix (mECM): a bioactive and versatile scaffold for musculoskeletal tissue engineering. Biomedical Materials (Bristol), 2021, 16, 012002.	1.7	4

#	Article	IF	Citations
19	Macrophages Modulate the Function of MSC- and iPSC-Derived Fibroblasts in the Presence of Polyethylene Particles. International Journal of Molecular Sciences, 2021, 22, 12837.	1.8	2
20	Incorporating silicaâ€coated graphene in bioceramic nanocomposites to simultaneously enhance mechanical and biological performance. Journal of Biomedical Materials Research - Part A, 2020, 108, 1016-1027.	2.1	9
21	Dead muscle tissue promotes dystrophic calcification by lowering circulating TGF-Î²1 level. Bone and Joint Research, 2020, 9, 742-750.	1.3	8
22	Adipose Tissue-Derived Stem Cells Retain Their Adipocyte Differentiation Potential in Three-Dimensional Hydrogels and Bioreactors. Biomolecules, 2020, 10, 1070.	1.8	24
23	Pathogenesis of Osteoarthritis: Risk Factors, Regulatory Pathways in Chondrocytes, and Experimental Models. Biology, 2020, 9, 194.	1.3	111
24	Injectable <i>BMP-2</i> gene-activated scaffold for the repair of cranial bone defect in mice. Stem Cells Translational Medicine, 2020, 9, 1631-1642.	1.6	20
25	Role of mitochondria in mediating chondrocyte response to mechanical stimuli. Life Sciences, 2020, 263, 118602.	2.0	17
26	Exploration of metformin as novel therapy for osteoarthritis: preventing cartilage degeneration and reducing pain behavior. Arthritis Research and Therapy, 2020, 22, 34.	1.6	42
27	Acceleration of chondrogenic differentiation of human mesenchymal stem cells by sustained growth factor release in 3D graphene oxide incorporated hydrogels. Acta Biomaterialia, 2020, 105, 44-55.	4.1	58
28	TGF-Î²1 plays a protective role in glucocorticoid-induced dystrophic calcification. Bone, 2020, 136, 115355.	1.4	7
29	Macrophage Effects on Mesenchymal Stem Cell Osteogenesis in a Three-Dimensional<i>In Vitro</i>Bone Model. Tissue Engineering - Part A, 2020, 26, 1099-1111.	1.6	31
30	Tissue Engineering for Musculoskeletal Regeneration and Disease Modeling. Handbook of Experimental Pharmacology, 2020, 265, 235-268.	0.9	9
31	Bone marrow mesenchymal stem cells: Aging and tissue engineering applications to enhance bone healing. Biomaterials, 2019, 203, 96-110.	5.7	234
32	Stem Cell Therapy for Musculoskeletal Diseases. , 2019, , 953-970.		4
33	Efficient in vivo bone formation by BMP-2 engineered human mesenchymal stem cells encapsulated in a projection stereolithographically fabricated hydrogel scaffold. Stem Cell Research and Therapy, 2019, 10, 254.	2.4	55
34	The efficacy and safety of tranexamic acid for reducing blood loss following simultaneous bilateral total knee arthroplasty: a multicenter retrospective study. BMC Musculoskeletal Disorders, 2019, 20, 325.	0.8	16
35	Robust bone regeneration through endochondral ossification of human mesenchymal stem cells within their own extracellular matrix. Biomaterials, 2019, 218, 119336.	5.7	40
36	Transplantation of adult spinal cord tissue: Transection spinal cord repair and potential clinical translation. Science China Life Sciences, 2019, 62, 870-872.	2.3	6

#	Article	IF	Citations
37	A Cellularized Biphasic Implant Based on a Bioactive Silk Fibroin Promotes Integration and Tissue Organization during Osteochondral Defect Repair in a Porcine Model. International Journal of Molecular Sciences, 2019, 20, 5145.	1.8	11
38	Condensationâ€Đriven Chondrogenesis of Human Mesenchymal Stem Cells within Their Own Extracellular Matrix: Formation of Cartilage with Low Hypertrophy and Physiologically Relevant Mechanical Properties. Advanced Biology, 2019, 3, e1900229.	3.0	8
39	Infiltration and In-Tissue Polymerization of Photocross-Linked Hydrogel for Effective Fixation of Implants into Cartilageâ€"An In Vitro Study. ACS Omega, 2019, 4, 18540-18544.	1.6	7
40	Point-of-Care Procedure for Enhancement of Meniscal Healing in a Goat Model Utilizing Infrapatellar Fat Padâ€"Derived Stromal Vascular Fraction Cells Seeded in Photocrosslinkable Hydrogel. American Journal of Sports Medicine, 2019, 47, 3396-3405.	1.9	18
41	Muscle injury promotes heterotopic ossification by stimulating local bone morphogenetic protein-7 production. Journal of Orthopaedic Translation, 2019, 18, 142-153.	1.9	24
42	Optimization of photocrosslinked gelatin/hyaluronic acid hybrid scaffold for the repair of cartilage defect. Journal of Tissue Engineering and Regenerative Medicine, 2019, 13, 1418-1429.	1.3	59
43	A Bioactive Cartilage Graft of IGF1-Transduced Adipose Mesenchymal Stem Cells Embedded in an Alginate/Bovine Cartilage Matrix Tridimensional Scaffold. Stem Cells International, 2019, 2019, 1-15.	1.2	5
44	Osteochondral Tissue Chip Derived From iPSCs: Modeling OA Pathologies and Testing Drugs. Frontiers in Bioengineering and Biotechnology, 2019, 7, 411.	2.0	71
45	Photopolymerizable biogel scaffold seeded with mesenchymal stem cells: safety and efficacy evaluation of novel treatment for intervertebral disc degeneration. Journal of Orthopaedic Research, 2019, 37, 1451-1459.	1.2	15
46	Enhancing chondrogenesis and mechanical strength retention in physiologically relevant hydrogels with incorporation of hyaluronic acid and direct loading of TGF-Î². Acta Biomaterialia, 2019, 83, 167-176.	4.1	57
47	Engineering hyaline cartilage from mesenchymal stem cells with low hypertrophy potential via modulation of culture conditions and Wnt/Î²-catenin pathway. Biomaterials, 2019, 192, 569-578.	5.7	58
48	Chondroinductive factor-free chondrogenic differentiation of human mesenchymal stem cells in graphene oxide-incorporated hydrogels. Journal of Materials Chemistry B, 2018, 6, 908-917.	2.9	38
49	Mesenchymal stem cell-derived extracellular matrix enhances chondrogenic phenotype of and cartilage formation by encapsulated chondrocytes in vitro and in vivo. Acta Biomaterialia, 2018, 69, 71-82.	4.1	102
50	In Vitro Repair of Meniscal Radial Tear With Hydrogels Seeded With Adipose Stem Cells and TGF-Î²3. American Journal of Sports Medicine, 2018, 46, 2402-2413.	1.9	53
51	Influence of cholesterol/caveolin-1/caveolae homeostasis on membrane properties and substrate adhesion characteristics of adult human mesenchymal stem cells. Stem Cell Research and Therapy, 2018, 9, 86.	2.4	40
52	Aging of Human Mesenchymal Stem Cells. , 2018, , 975-994.		2
53	Overview: State of the Art and Future Prospectives for Cartilage Repair. , 2017, , 1-34.		5
54	Chondrogenesis of human bone marrow mesenchymal stem cells in 3-dimensional, photocrosslinked hydrogel constructs: Effect of cell seeding density and material stiffness. Acta Biomaterialia, 2017, 58, 302-311.	4.1	85

#	Article	IF	Citations
55	One-Step Fabrication of Bone Morphogenetic Protein-2 Gene-Activated Porous Poly-L-Lactide Scaffold for Bone Induction. Molecular Therapy - Methods and Clinical Development, 2017, 7, 50-59.	1.8	13
56	Projection Stereolithographic Fabrication of BMP-2 Gene-activated Matrix for Bone Tissue Engineering. Scientific Reports, 2017, 7, 11327.	1.6	27
57	Osteoblast Differentiation and Bone Matrix Formation<i>In Vivo</i>and<i>In Vitro</i>. Tissue Engineering - Part B: Reviews, 2017, 23, 268-280.	2.5	329
58	Tendon-Derived Extracellular Matrix Enhances Transforming Growth Factor-Î²3-Induced Tenogenic Differentiation of Human Adipose-Derived Stem Cells. Tissue Engineering - Part A, 2017, 23, 166-176.	1.6	50
59	524. Injectable BMP-2 Gene-Activated Scaffold for the Repair of Mouse Cranial Bone Defect. Molecular Therapy, 2016, 24, S209.	3.7	1
60	Multilayered polycaprolactone/gelatin fiber-hydrogel composite for tendon tissue engineering. Acta Biomaterialia, 2016, 35, 68-76.	4.1	164
61	Projection Stereolithographic Fabrication of Human Adipose Stem Cell-Incorporated Biodegradable Scaffolds for Cartilage Tissue Engineering. Frontiers in Bioengineering and Biotechnology, 2015, 3, 115.	2.0	61
62	In Vitro Repair of Meniscal Radial Tear Using Aligned Electrospun Nanofibrous Scaffold. Tissue Engineering - Part A, 2015, 21, 2066-2075.	1.6	36
63	Nucleous Pulposus Tissue Engineering Using a Novel Photopolymerizable Hydrogel and Minimally Invasive Delivery. Spine Journal, 2014, 14, S173.	0.6	4
64	Three-dimensional osteogenic and chondrogenic systems to model osteochondral physiology and degenerative joint diseases. Experimental Biology and Medicine, 2014, 239, 1080-1095.	1.1	60
65	Cartilage Tissue Engineering Application of Injectable Gelatin Hydrogel with <i>In Situ</i> Visible-Light-Activated Gelation Capability in Both Air and Aqueous Solution. Tissue Engineering - Part A, 2014, 20, 2402-2411.	1.6	122
66	Stem Cell-Based Microphysiological Osteochondral System to Model Tissue Response to Interleukin-1Î². Molecular Pharmaceutics, 2014, 11, 2203-2212.	2.3	114
67	Three-dimensional osteochondral microtissue to model pathogenesis of osteoarthritis. Stem Cell Research and Therapy, 2013, 4, S6.	2.4	62
68	Enhancement of tenogenic differentiation of human adipose stem cells by tendon-derived extracellular matrix. Biomaterials, 2013, 34, 9295-9306.	5.7	155
69	Application of visible light-based projection stereolithography for live cell-scaffold fabrication with designed architecture. Biomaterials, 2013, 34, 331-339.	5.7	311
70	Influence of decellularized matrix derived from human mesenchymal stem cells on their proliferation, migration and multi-lineage differentiation potential. Biomaterials, 2012, 33, 4480-4489.	5.7	162
71	Stem-cell-capturing collagen scaffold promotes cardiac tissue regeneration. Biomaterials, 2011, 32, 2508-2515.	5.7	102
72	Collagen scaffolds loaded with collagenâ€binding NGFâ€Î² accelerate ulcer healing. Journal of Biomedical Materials Research - Part A, 2010, 92A, 887-895.	2.1	26

#	Article	IF	Citations
73	Improvement of Sciatic Nerve Regeneration Using Laminin-Binding Human NGF-Î². PLoS ONE, 2009, 4, e6180.	1.1	46
74	Collagen-Targeting Vascular Endothelial Growth Factor Improves Cardiac Performance After Myocardial Infarction. Circulation, 2009, 119, 1776-1784.	1.6	115
75	Crosslinked Three-Dimensional Demineralized Bone Matrix for the Adipose-Derived Stromal Cell Proliferation and Differentiation. Tissue Engineering - Part A, 2009, 15, 13-21.	1.6	34
76	Human Basic Fibroblast Growth Factor Fused with Kringle4 Peptide Binds to a Fibrin Scaffold and Enhances Angiogenesis. Tissue Engineering - Part A, 2009, 15, 991-998.	1.6	28
77	Linear Ordered Collagen Scaffolds Loaded with Collagen-Binding Brain-Derived Neurotrophic Factor Improve the Recovery of Spinal Cord Injury in Rats. Tissue Engineering - Part A, 2009, 15, 2927-2935.	1.6	126
78	The boneâ€derived collagen containing mineralized matrix for the loading of collagenâ€binding bone morphogenetic proteinâ€2. Journal of Biomedical Materials Research - Part A, 2009, 88A, 725-734.	2.1	21
79	The effect of collagen-binding NGF-Î² on the promotion of sciatic nerve regeneration in a rat sciatic nerve crush injury model. Biomaterials, 2009, 30, 4649-4656.	5.7	116
80	Alternative Translation of <i>OCT4</i> by an Internal Ribosome Entry Site and its Novel Function in Stress Response. Stem Cells, 2009, 27, 1265-1275.	1.4	108
81	Improved neovascularization and wound repair by targeting human basic fibroblast growth factor (bFGF) to fibrin. Journal of Molecular Medicine, 2008, 86, 1127-1138.	1.7	42
82	The effect of crosslinking heparin to demineralized bone matrix on mechanical strength and specific binding to human bone morphogenetic protein-2. Biomaterials, 2008, 29, 1189-1197.	5.7	91
83	Collagen membranes loaded with collagen-binding human PDGF-BB accelerate wound healing in a rabbit dermal ischemic ulcer model. Growth Factors, 2007, 25, 309-318.	0.5	65
84	Activation of demineralized bone matrix by genetically engineered human bone morphogenetic protein-2 with a collagen binding domain derived from von Willebrand factor propolypeptide. Journal of Biomedical Materials Research - Part A, 2007, 80A, 428-434.	2.1	57
85	Vascularization and cellularization of collagen scaffolds incorporated with two different collagen-targeting human basic fibroblast growth factors. Journal of Biomedical Materials Research - Part A, 2007, 82A, 630-636.	2.1	69
86	Promotion of peripheral nerve growth by collagen scaffolds loaded with collagenâ€targeting human nerve growth factorâ€Î². Journal of Biomedical Materials Research - Part A, 2007, 83A, 1054-1061.	2.1	55
87	Homogeneous osteogenesis and bone regeneration by demineralized bone matrix loading with collagen-targeting bone morphogenetic protein-2. Biomaterials, 2007, 28, 1027-1035.	5.7	163
88	The effect of three-dimensional demineralized bone matrix on in vitro cumulus-free oocyte maturation. Biomaterials, 2007, 28, 3198-3207.	5.7	14
89	Phenotypical analysis of adult rat olfactory ensheathing cells on 3-D collagen scaffolds. Neuroscience Letters, 2006, 401, 65-70.	1.0	43
90	The effect of collagen-targeting platelet-derived growth factor on cellularization and vascularization of collagen scaffolds. Biomaterials, 2006, 27, 5708-5714.	5.7	101

#	Article	IF	Citations
91	Novel nerve guidance material prepared from bovine aponeurosis. Journal of Biomedical Materials Research - Part A, 2006, 79A, 591-598.	2.1	73