Wan-Ju Li

List of Publications by Year
in descending order

93 papers	9,699 citations	87888 38 h-index	71685 76 g-index
97 all docs	97 docs citations	97 times ranked	10981 citing authors

#	Article	IF	Citations
1	Electrospun nanofibrous structure: A novel scaffold for tissue engineering. Journal of Biomedical Materials Research Part B, 2002, 60, 613-621.	3.1	2,134
2	A three-dimensional nanofibrous scaffold for cartilage tissue engineering using human mesenchymal stem cells. Biomaterials, 2005, 26, 599-609.	11.4	880
3	Multilineage differentiation of human mesenchymal stem cells in a three-dimensional nanofibrous scaffold. Biomaterials, 2005, 26, 5158-5166.	11.4	596
4	Biological response of chondrocytes cultured in threeâ€dimensional nanofibrous poly(Ïµâ€caprolactone) scaffolds. Journal of Biomedical Materials Research - Part A, 2003, 67A, 1105-1114.	4.0	483
5	Tissue Stiffness Dictates Development, Homeostasis, and Disease Progression. Organogenesis, 2015, 11, 1-15.	1.2	483
6	Fabrication and characterization of six electrospun poly(Î±-hydroxy ester)-based fibrous scaffolds for tissue engineering applications. Acta Biomaterialia, 2006, 2, 377-385.	8.3	472
7	Engineering controllable anisotropy in electrospun biodegradable nanofibrous scaffolds for musculoskeletal tissue engineering. Journal of Biomechanics, 2007, 40, 1686-1693.	2.1	355
8	Nanobiomaterial applications in orthopedics. Journal of Orthopaedic Research, 2007, 25, 11-22.	2.3	316
9	Cartilage tissue engineering: its potential and uses. Current Opinion in Rheumatology, 2006, 18, 64-73.	4.3	255
10	Chondrocyte Phenotype in Engineered Fibrous Matrix Is Regulated by Fiber Size. Tissue Engineering, 2006, 12, 1775-1785.	4.6	235
11	Modulation of osteogenesis in human mesenchymal stem cells by specific pulsed electromagnetic field stimulation. Journal of Orthopaedic Research, 2009, 27, 1169-1174.	2.3	197
12	Engineering on the Straight and Narrow: The Mechanics of Nanofibrous Assemblies for Fiber-Reinforced Tissue Regeneration. Tissue Engineering - Part B: Reviews, 2009, 15, 171-193.	4.8	188
13	Current state of cartilage tissue engineering. Arthritis Research, 2003, 5, 235.	2.0	182
14	Intervertebral Disc Tissue Engineering Using a Novel Hyaluronic Acidâ€“Nanofibrous Scaffold (HANFS) Amalgam. Tissue Engineering - Part A, 2008, 14, 1527-1537.	3.1	177
15	Three-dimensional cartilage formation by bone marrow-derived cells seeded in polylactide/alginate amalgam. Journal of Biomedical Materials Research Part B, 2001, 57, 394-403.	3.1	174
16	Braided Nanofibrous Scaffold for Tendon and Ligament Tissue Engineering. Tissue Engineering - Part A, 2013, 19, 1265-1274.	3.1	157
17	Evaluation of articular cartilage repair using biodegradable nanofibrous scaffolds in a swine model: a pilot study. Journal of Tissue Engineering and Regenerative Medicine, 2009, 3, 1-10.	2.7	145
18	Human pluripotent stem cellâ€“derived brain pericyteâ€“like cells induce blood-brain barrier properties. Science Advances, 2019, 5, eaau7375.	10.3	135

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19	Human Mesenchymal Progenitor Cell-Based Tissue Engineering of a Single-Unit Osteochondral Construct. Tissue Engineering, 2004, 10, 1169-1179.	4.6	108
20	Fibroblast Growth Factor-2 Primes Human Mesenchymal Stem Cells for Enhanced Chondrogenesis. PLoS ONE, 2011, 6, e22887.	2.5	103
21	New directions in nanofibrous scaffolds for soft tissue engineering and regeneration. Expert Review of Medical Devices, 2009, 6, 515-532.	2.8	101
22	Electrospun Nanofibrous Scaffolds: Production, Characterization, and Applications for Tissue Engineering and Drug Delivery. Journal of Biomedical Nanotechnology, 2005, 1, 259-275.	1.1	100
23	Mold-Shaped, Nanofiber Scaffold-Based Cartilage Engineering Using Human Mesenchymal Stem Cells and Bioreactor. Journal of Surgical Research, 2008, 149, 47-56.	1.6	80
24	Thermoplastic polyurethane/hydroxyapatite electrospun scaffolds for bone tissue engineering: Effects of polymer properties and particle size. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2014, 102, 1434-1444.	3.4	77
25	Polymer/Alginate Amalgam for Cartilageâ€•Tissue Engineering. Annals of the New York Academy of Sciences, 2002, 961, 134-138.	3.8	74
26	Adult Mesenchymal Stem Cells: Biological Properties, Characteristics, and Applications in Maxillofacial Surgery. Journal of Oral and Maxillofacial Surgery, 2007, 65, 1640-1647.	1.2	72
27	Tenogenic differentiation of human induced pluripotent stem cell-derived mesenchymal stem cells dictated by properties of braided submicron fibrous scaffolds. Biomaterials, 2014, 35, 6907-6917.	11.4	68
28	Mechano-Signal Transduction in Mesenchymal Stem Cells Induces Prosaposin Secretion to Drive the Proliferation of Breast Cancer Cells. Cancer Research, 2017, 77, 6179-6189.	0.9	68
29	Beta4 integrin promotes osteosarcoma metastasis and interacts with ezrin. Oncogene, 2009, 28, 3401-3411.	5.9	66
30	Cellâ€“Nanofiber-Based Cartilage Tissue Engineering Using Improved Cell Seeding, Growth Factor, and Bioreactor Technologies. Tissue Engineering - Part A, 2008, 14, 639-648.	3.1	60
31	Characterization and evaluation of mesenchymal stem cells derived from human embryonic stem cells and bone marrow. Cell and Tissue Research, 2014, 358, 149-164.	2.9	59
32	Minimizing the makespan in a single machine scheduling problem with a time-based learning effect. Information Processing Letters, 2006, 97, 64-67.	0.6	55
33	Macrophage Migration Inhibitory Factor Regulates AKT Signaling in Hypoxic Culture to Modulate Senescence of Human Mesenchymal Stem Cells. Stem Cells and Development, 2014, 23, 852-865.	2.1	55
34	Stem Cell-based Tissue Engineering Approaches for Musculoskeletal Regeneration. Current Pharmaceutical Design, 2013, 19, 3429-3445.	1.9	50
35	A newly identified mechanism involved in regulation of human mesenchymal stem cells by fibrous substrate stiffness. Acta Biomaterialia, 2016, 42, 247-257.	8.3	46
36	TGF-Î²1 calcium signaling in osteoblasts. Journal of Cellular Biochemistry, 2007, 101, 348-359.	2.6	45

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37	Fabrication and Application of Nanofibrous Scaffolds in Tissue Engineering. Current Protocols in Cell Biology, 2009, 42, Unit 25.2.	2.3	44
38	Endothelial cells direct human mesenchymal stem cells for osteo- and chondro-lineage differentiation through endothelin-1 and AKT signaling. Stem Cell Research and Therapy, 2015, 6, 88.	5.5	43
39	Fabrication and characterization of injection molded poly (Îµ-caprolactone) and poly (Îµ-caprolactone)/hydroxyapatite scaffolds for tissue engineering. Materials Science and Engineering C, 2012, 32, 1674-1681.	7.3	39
40	Regulation of mesenchymal stem cell chondrogenesis by glucose through protein kinase C/transforming growth factor signaling. Osteoarthritis and Cartilage, 2013, 21, 368-376.	1.3	39
41	Identification of Bone Marrow-Derived Soluble Factors Regulating Human Mesenchymal Stem Cells for Bone Regeneration. Stem Cell Reports, 2017, 8, 387-400.	4.8	38
42	Strategies to retain properties of bone marrowâ€“derived mesenchymal stem cells <i>ex vivo</i>. Annals of the New York Academy of Sciences, 2017, 1409, 3-17.	3.8	36
43	Induction of Mesenchymal Stem Cell Chondrogenesis Through Sequential Administration of Growth Factors Within Specific Temporal Windows. Journal of Cellular Physiology, 2014, 229, 162-171.	4.1	34
44	In Vitro Adipose Tissue Engineering Using an Electrospun Nanofibrous Scaffold. Annals of Plastic Surgery, 2008, 61, 566-571.	0.9	33
45	Intervertebral disc and stem cells cocultured in biomimetic extracellular matrix stimulated by cyclic compression in perfusion bioreactor. Spine Journal, 2014, 14, 2127-2140.	1.3	32
46	Stabilization of Proteins by Nanoencapsulation in Sugarâ€“Glass for Tissue Engineering and Drug Delivery Applications. Advanced Materials, 2011, 23, 4861-4867.	21.0	31
47	Enhanced Medial Collateral Ligament Healing Using Mesenchymal Stem Cells: Dosage Effects on Cellular Response and Cytokine Profile. Stem Cell Reviews and Reports, 2014, 10, 86-96.	5.6	31
48	Collagen and chondroitin sulfate functionalized bioinspired fibers for tendon tissue engineering application. International Journal of Biological Macromolecules, 2021, 170, 248-260.	7.5	31
49	Polymeric Scaffolds for Cartilage Tissue Engineering. Macromolecular Symposia, 2005, 227, 65-76.	0.7	25
50	Combinatorial screening of chemically defined human mesenchymal stem cell culture substrates. Journal of Materials Chemistry, 2012, 22, 19474.	6.7	25
51	Endothelinâ€1 differentially directs lineage specification of adiposeâ€•and bone marrowâ€“derived mesenchymal stem cells. FASEB Journal, 2019, 33, 996-1007.	0.5	25
52	Encapsulated chondrocyte response in a pulsatile flow bioreactor. Acta Biomaterialia, 2007, 3, 13-21.	8.3	24
53	Chondrogenesis of Embryonic Stem Cellâ€Derived Mesenchymal Stem Cells Induced by TGFÎ²1 and BMP7 Through Increased TGFÎ² Receptor Expression and Endogenous TGFÎ²1 Production. Journal of Cellular Biochemistry, 2017, 118, 172-181.	2.6	23
54	Tendon-to-Bone Healing in a Rat Extra-articular Bone Tunnel Model: A Comparison of Fresh Autologous Bone Marrow and Bone Marrowâ€“Derived Mesenchymal Stem Cells. American Journal of Sports Medicine, 2019, 47, 2729-2736.	4.2	23

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55	GATA6 regulates aging of human mesenchymal stem/stromal cells. Stem Cells, 2021, 39, 62-77.	3.2	22
56	Osteoprotegerin Enhances Osteogenesis of Human Mesenchymal Stem Cells. Tissue Engineering - Part A, 2013, 19, 2176-2187.	3.1	21
57	Endogenously Produced Indian Hedgehog Regulates TGFÎ²-Driven Chondrogenesis of Human Bone Marrow Stromal/Stem Cells. Stem Cells and Development, 2015, 24, 995-1007.	2.1	18
58	Effects of Human Fibroblast-Derived Extracellular Matrix on Mesenchymal Stem Cells. Stem Cell Reviews and Reports, 2016, 12, 560-572.	5.6	18
59	Hierarchically decorated electrospun poly($$ varepsilon $$ Îµ -caprolactone)/nanohydroxyapatite composite nanofibers for bone tissue engineering. Journal of Materials Science, 2015, 50, 4174-4186.	3.7	17
60	Comparative evaluation of isogenic mesodermal and ectomesodermal chondrocytes from human iPSCs for cartilage regeneration. Science Advances, 2021, 7, .	10.3	17
61	Bone Morphogenetic Protein-6 Attenuates Type 1 Diabetes Mellitus-Associated Bone Loss. Stem Cells Translational Medicine, 2019, 8, 522-534.	3.3	16
62	Osteoblastogenesis of Mesenchymal Stem Cells in 3-D Culture Enhanced by Low-Intensity Pulsed Ultrasound through Soluble Receptor Activator of Nuclear Factor Kappa B Ligand. Ultrasound in Medicine and Biology, 2015, 41, 1842-1852.	1.5	14
63	Endogenous biological factors modulated by substrate stiffness regulate endothelial differentiation of mesenchymal stem cells. Journal of Biomedical Materials Research - Part A, 2018, 106, 1595-1603.	4.0	11
64	Emerging opportunities for induced pluripotent stem cells in orthopaedics. Journal of Orthopaedic Translation, 2019, 17, 73-81.	3.9	11
65	Fibrous Scaffolds for Tissue Engineering. , 2011, , 47-73.		11
66	Effects of Elastin-Like Peptide on Regulation of Human Mesenchymal Stem Cell Behavior. Regenerative Engineering and Translational Medicine, 2016, 2, 85-97.	2.9	10
67	Mesenchymal Stem Cells. , 2007, , 823-843.		8
68	Reprogrammed Synovial Fluid-Derived Mesenchymal Stem/Stromal Cells Acquire Enhanced Therapeutic Potential for Articular Cartilage Repair. Cartilage, 2021, 13, 530S-543S.	2.7	7
69	Human stem cells, chromatin, and tissue engineering: Boosting relevancy in developmental toxicity testing. Birth Defects Research Part C: Embryo Today Reviews, 2007, 81, 20-40.	3.6	6
70	Adverse effect of demineralized bone powder on osteogenesis of human mesenchymal stem cells. Experimental Cell Research, 2013, 319, 1942-1955.	2.6	5
71	Advanced quantitative imaging and biomechanical analyses of periosteal fibers in accelerated bone growth. Bone, 2016, 92, 201-213.	2.9	5
72	Fiber Based Tissue Engineered Scaffolds for Musculoskeletal Applications: in Vitro Cellular Response. Materials Research Society Symposia Proceedings, 1998, 550, 127.	0.1	4

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73	The Effect of Nano Hydroxyapatite Particles on Morphology and Mechanical Properties of Microcellular Injection Molded Polylactide/Hydroxyapatite Tissue Scaffold. , 2010, , .		4
74	Endothelin-1 reduces catabolic activity of human mesenchymal stem/stromal cells during chondro- and osteo-lineage differentiation. Biochemical and Biophysical Research Communications, 2020, 529, 180-185.	2.1	4
75	Epigenetic regulation of BAF60A determines efficiency of miniature swine iPSC generation. Scientific Reports, 2022, 12, .	3.3	3
76	Cartilage and Ligament Tissue Engineering. , 2013, , 1214-1236.		2
77	Bi-component T2 mapping correlates with articular cartilage material properties. Journal of Biomechanics, 2021, 116, 110215.	2.1	2
78	GATA6 regulates aging of human mesenchymal stem/stromal cells. Stem Cells, 2021, 39, 62-77.	3.2	2
79	NANOSTRUCTURED SCAFFOLDS FOR BIOLOGY AND TISSUE ENGINEERING. Nano LIFE, 2010, 01, 109-120.	0.9	1
80	Assays for determining cell differentiation in biomaterials. , 2013, , 101-137.		1
81	3D Cell Culture and Microscopy in a Capsule with Scaffolds, Tumors & Stem Cells. Microscopy and Microanalysis, 2016, 22, 998-999.	0.4	1
82	Electrospinning. Advances in Bioinformatics and Biomedical Engineering Book Series, 0, , 48-78.	0.4	1
83	Cell-Based Therapies for Musculoskeletal Repair. , 2008, , 888-911.		1
84	Suture Fixation of Biodegradable Nanofibrous Poly-Caprolactone Scaffolds to Bovine Meniscus: A Novel Approach to Repairing Meniscal Tears (SS-48). Arthroscopy - Journal of Arthroscopic and Related Surgery, 2006, 22, e24.	2.7	0
85	Microenvironmental Determinants of Stem Cell Fate. , 2009, , 647-663.		0
86	Novel Biomimetic Scaffold for Tendon/Ligament Tissue Engineering. , 2010, , .		0
87	Intervertebral Disc Regeneration from Co-cultured Disc and Stem Cells in Biomimetic Engineered Extracellular Matrix Stimulated by Mechanically Active Bioreactor. Spine Journal, 2011, 11, S70-S71.	1.3	0
88	Mechanical Stimulation Provides the Key Induction Signal for Tenogenic Differentiation of Human Mesenchymal Stem Cells in Braided Nanofibrous Scaffolds. , 2011, , .		0
89	Editorial: Extracellular Vesicle Treatment, Epigenetic Modification and Cell Reprogramming to Promote Bone and Cartilage Regeneration. Frontiers in Bioengineering and Biotechnology, 2021, 9, 678014.	4.1	0
90	Evaluation of Nanofiber-based Engineered Cartilage and its Integration with Native Cartilage. MCB Molecular and Cellular Biomechanics, 2006, 3, 175-176.	0.7	0

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91	Chondrocyte Phenotype in Engineered Fibrous Matrix Is Regulated by Fiber Size. Tissue Engineering, 2006, .	4.6	0
92	Chondrocyte Phenotype in Engineered Fibrous Matrix Is Regulated by Fiber Size. Tissue Engineering, 2006, .	4.6	0
93	Abstract 5904: Stiffness of extracellular matrix regulates breast cancer progression by stimulating mesenchymal stem cells. , 2017, , .		0