Robert L Mauck

List of Publications by Year
in descending order

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293	18,449	13087 68	16636 123
papers	citations	h-index	g-index

306	306	306	15014
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Functional Tissue Engineering of Articular Cartilage Through Dynamic Loading of Chondrocyte-Seeded Agarose Gels. Journal of Biomechanical Engineering, 2000, 122, 252-260.	0.6	836
2	The potential to improve cell infiltration in composite fiber-aligned electrospun scaffolds by the selective removal of sacrificial fibers. Biomaterials, 2008, 29, 2348-2358.	5.7	557
3	Fabrication and characterization of six electrospun poly(Î±-hydroxy ester)-based fibrous scaffolds for tissue engineering applications. Acta Biomaterialia, 2006, 2, 377-385.	4.1	472
4	Hydrogel design for cartilage tissue engineering: A case study with hyaluronic acid. Biomaterials, 2011, 32, 8771-8782.	5.7	443
5	Engineering controllable anisotropy in electrospun biodegradable nanofibrous scaffolds for musculoskeletal tissue engineering. Journal of Biomechanics, 2007, 40, 1686-1693.	0.9	355
6	Hydrogels that mimic developmentally relevant matrix and N-cadherin interactions enhance MSC chondrogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10117-10122.	3.3	344
7	The effect of nanofiber alignment on the maturation of engineered meniscus constructs. Biomaterials, 2007, 28, 1967-1977.	5.7	333
8	Enhanced MSC chondrogenesis following delivery of TGF-Î²3 from alginate microspheres within hyaluronic acid hydrogels in vitro and in vivo. Biomaterials, 2011, 32, 6425-6434.	5.7	327
9	Synergistic Action of Growth Factors and Dynamic Loading for Articular Cartilage Tissue Engineering. Tissue Engineering, 2003, 9, 597-611.	4.9	309
10	Tissue engineering for articular cartilage repair â€“ the state of the art. , 2013, 25, 248-267.		305
11	Nanofibrous biologic laminates replicate the form and function of the annulus fibrosus. Nature Materials, 2009, 8, 986-992.	13.3	300
12	Local nascent protein deposition and remodelling guide mesenchymal stromal cell mechanosensing and fate in three-dimensional hydrogels. Nature Materials, 2019, 18, 883-891.	13.3	273
13	Influence of Seeding Density and Dynamic Deformational Loading on the Developing Structure/Function Relationships of Chondrocyte-Seeded Agarose Hydrogels. Annals of Biomedical Engineering, 2002, 30, 1046-1056.	1.3	270
14	The influence of hyaluronic acid hydrogel crosslinking density and macromolecular diffusivity on human MSC chondrogenesis and hypertrophy. Biomaterials, 2013, 34, 413-421.	5.7	265
15	N-cadherin adhesive interactions modulate matrix mechanosensing and fate commitment of mesenchymal stem cells. Nature Materials, 2016, 15, 1297-1306.	13.3	262
16	Cartilage tissue engineering: its potential and uses. Current Opinion in Rheumatology, 2006, 18, 64-73.	2.0	255
17	Cytoskeletal to Nuclear Strain Transfer Regulates YAP Signaling in Mesenchymal Stem Cells. Biophysical Journal, 2015, 108, 2783-2793.	0.2	242
18	Material properties in unconfined compression of human nucleus pulposus, injectable hyaluronic acid-based hydrogels and tissue engineering scaffolds. European Spine Journal, 2007, 16, 1892-1898.	1.0	237

#	ARTICLE	IF	CITATIONS
19	Coculture of Human Mesenchymal Stem Cells and Articular Chondrocytes Reduces Hypertrophy and Enhances Functional Properties of Engineered Cartilage. Tissue Engineering - Part A, 2011, 17, 1137-1145.	1.6	235
20	A Paradigm for Functional Tissue Engineering of Articular Cartilage via Applied Physiologic Deformational Loading. Annals of Biomedical Engineering, 2004, 32, 35-49.	1.3	225
21	Mechanical design criteria for intervertebral disc tissue engineering. Journal of Biomechanics, 2010, 43, 1017-1030.	0.9	216
22	Tissue Engineering and Regenerative Medicine: Recent Innovations and the Transition to Translation. Tissue Engineering - Part B: Reviews, 2013, 19, 1-13.	2.5	216
23	Mechanics of oriented electrospun nanofibrous scaffolds for annulus fibrosus tissue engineering. Journal of Orthopaedic Research, 2007, 25, 1018-1028.	1.2	215
24	The influence of degradation characteristics of hyaluronic acid hydrogels on in vitro neocartilage formation by mesenchymal stem cells. Biomaterials, 2009, 30, 4287-4296.	5.7	205
25	Differential Maturation and Structureâ€"Function Relationships in Mesenchymal Stem Cell- and Chondrocyte-Seeded Hydrogels. Tissue Engineering - Part A, 2009, 15, 1041-1052.	1.6	196
26	Anatomically shaped osteochondral constructs for articular cartilage repair. Journal of Biomechanics, 2003, 36, 1853-1864.	0.9	195
27	Modeling of Neutral Solute Transport in a Dynamically Loaded Porous Permeable Gel: Implications for Articular Cartilage Biosynthesis and Tissue Engineering. Journal of Biomechanical Engineering, 2003, 125, 602-614.	0.6	193
28	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.	2.5	188
29	Matching material and cellular timescales maximizes cell spreading on viscoelastic substrates. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E2686-E2695.	3.3	183
30	Long-term dynamic loading improves the mechanical properties of chondrogenic mesenchymal stem cell-laden hydrogel. , 2010, 19, 72-85.		182
31	Stiffening hydrogels for investigating the dynamics of hepatic stellate cell mechanotransduction during myofibroblast activation. Scientific Reports, 2016, 6, 21387.	1.6	176
32	High mesenchymal stem cell seeding densities in hyaluronic acid hydrogels produce engineered cartilage with native tissue properties. Acta Biomaterialia, 2012, 8, 3027-3034.	4.1	173
33	Transient Exposure to Transforming Growth Factor Beta 3 Under Serum-Free Conditions Enhances the Biomechanical and Biochemical Maturation of Tissue-Engineered Cartilage. Tissue Engineering - Part A, 2008, 14, 1821-1834.	1.6	168
34	To Serve and Protect: Hydrogels to Improve Stem Cell-Based Therapies. Cell Stem Cell, 2016, 18, 13-15.	5.2	158
35	Mechanics and mechanobiology of mesenchymal stem cell-based engineered cartilage. Journal of Biomechanics, 2010, 43, 128-136.	0.9	154
36	Combinatorial hydrogels with biochemical gradients for screening 3D cellular microenvironments. Nature Communications, 2018, 9, 614.	5.8	150

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37	Biophysical Regulation of Chromatin Architecture Instills a Mechanical Memory in Mesenchymal Stem Cells. Scientific Reports, 2015, 5, 16895.	1.6	148
38	Sacrificial nanofibrous composites provide instruction without impediment and enable functional tissue formation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14176-14181.	3.3	145
39	Differentiation alters stem cell nuclear architecture, mechanics, and mechano-sensitivity. ELife, 2016, 5, .	2.8	138
40	Transient Exposure to Transforming Growth Factor Beta 3 Improves the Mechanical Properties of Mesenchymal Stem Cellâ€"Laden Cartilage Constructs in a Density-Dependent Manner. Tissue Engineering - Part A, 2009, 15, 3461-3472.	1.6	133
41	A layered agarose approach to fabricate depth-dependent inhomogeneity in chondrocyte-seeded constructs. Journal of Orthopaedic Research, 2005, 23, 134-141.	1.2	132
42	Engineered Disc-Like Angle-Ply Structures for Intervertebral Disc Replacement. Spine, 2010, 35, 867-873.	1.0	127
43	Dynamic Compressive Loading Enhances Cartilage Matrix Synthesis and Distribution and Suppresses Hypertrophy in hMSC-Laden Hyaluronic Acid Hydrogels. Tissue Engineering - Part A, 2012, 18, 715-724.	1.6	121
44	An anisotropic nanofiber/microsphere composite with controlled release of biomolecules for fibrous tissue engineering. Biomaterials, 2010, 31, 4113-4120.	5.7	114
45	Acellular Biomaterials: An Evolving Alternative to Cell-Based Therapies. Science Translational Medicine, 2013, 5, 176ps4.	5.8	113
46	Dynamic Tensile Loading Improves the Functional Properties of Mesenchymal Stem Cell-Laden Nanofiber-Based Fibrocartilage. Tissue Engineering - Part A, 2011, 17, 1445-1455.	1.6	109
47	Differential Behavior of Auricular and Articular Chondrocytes in Hyaluronic Acid Hydrogels. Tissue Engineering - Part A, 2008, 14, 1121-1131.	1.6	108
48	Mitogen-activated protein kinase signaling in bovine articular chondrocytes in response to fluid flow does not require calcium mobilization. Journal of Biomechanics, 2000, 33, 73-80.	0.9	107
49	Dynamic culture enhances stem cell infiltration and modulates extracellular matrix production on aligned electrospun nanofibrous scaffolds. Acta Biomaterialia, 2011, 7, 485-491.	4.1	102
50	Pathogenesis and Prevention of Posttraumatic Osteoarthritis After Intra-articular Fracture. Journal of the American Academy of Orthopaedic Surgeons, The, 2014, 22, 20-28.	1.1	102
51	New directions in nanofibrous scaffolds for soft tissue engineering and regeneration. Expert Review of Medical Devices, 2009, 6, 515-532.	1.4	101
52	Bioactive factors for cartilage repair and regeneration: Improving delivery, retention, and activity. Acta Biomaterialia, 2019, 93, 222-238.	4.1	101
53	Electrospun Nanofibrous Scaffolds: Production, Characterization, and Applications for Tissue Engineering and Drug Delivery. Journal of Biomedical Nanotechnology, 2005, 1, 259-275.	0.5	100
54	Translation of an engineered nanofibrous disc-like angle-ply structure for intervertebral disc replacement in a small animal model. Acta Biomaterialia, 2014, 10, 2473-2481.	4.1	100

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55	The influence of an aligned nanofibrous topography on human mesenchymal stem cell fibrochondrogenesis. Biomaterials, 2010, 31, 6190-6200.	5.7	97
56	Programmed biomolecule delivery to enable and direct cell migration for connective tissue repair. Nature Communications, 2017, 8, 1780.	5.8	96
57	Cell migration: implications for repair and regeneration in joint disease. Nature Reviews Rheumatology, 2019, 15, 167-179.	3.5	94
58	Regional multilineage differentiation potential of meniscal fibrochondrocytes: Implications for meniscus repair. Anatomical Record, 2007, 290, 48-58.	0.8	93
59	Mechano-topographic modulation of stem cell nuclear shape on nanofibrous scaffolds. Acta Biomaterialia, 2011, 7, 57-66.	4.1	88
60	Emerging therapies for cartilage regeneration in currently excluded â€˜red kneeâ€™ populations. Npj Regenerative Medicine, 2019, 4, 12.	2.5	88
61	Microstructural heterogeneity directs micromechanics and mechanobiology in native and engineered fibrocartilage. Nature Materials, 2016, 15, 477-484.	13.3	84
62	Long-term mechanical function and integration of an implanted tissue-engineered intervertebral disc. Science Translational Medicine, 2018, 10, .	5.8	82
63	Transient exposure to TGF-3 improves the functional chondrogenesis of MSC-laden hyaluronic acid hydrogels. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 11, 92-101.	1.5	80
64	Fabrication and Modeling of Dynamic Multipolymer Nanofibrous Scaffolds. Journal of Biomechanical Engineering, 2009, 131, 101012.	0.6	78
65	Osteocyte Viability and Regulation of Osteoblast Function in a 3D Trabecular Bone Explant Under Dynamic Hydrostatic Pressure. Journal of Bone and Mineral Research, 2004, 19, 1403-1410.	3.1	77
66	Micromechanical anisotropy and heterogeneity of the meniscus extracellular matrix. Acta Biomaterialia, 2017, 54, 356-366.	4.1	76
67	Advancing cell therapies for intervertebral disc regeneration from the lab to the clinic: Recommendations of the ORS spine section. JOR Spine, 2018, 1, e1036.	1.5	74
68	A Systematic Review and Guide to Mechanical Testing for Articular Cartilage Tissue Engineering. Tissue Engineering - Part C: Methods, 2019, 25, 593-608.	1.1	74
69	Homologous structureâ€“function relationships between native fibrocartilage and tissue engineered from MSC-seeded nanofibrous scaffolds. Biomaterials, 2011, 32, 461-468.	5.7	73
70	Growth factor supplementation improves native and engineered meniscus repair in vitro. Acta Biomaterialia, 2012, 8, 3687-3694.	4.1	73
71	Fiber-aligned polymer scaffolds for rotator cuff repair in a rat model. Journal of Shoulder and Elbow Surgery, 2012, 21, 245-250.	1.2	73
72	Organized nanofibrous scaffolds that mimic the macroscopic and microscopic architecture of the knee meniscus. Acta Biomaterialia, 2013, 9, 4496-4504.	4.1	73

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73	High-Throughput Screening for Modulators of Mesenchymal Stem Cell Chondrogenesis. Annals of Biomedical Engineering, 2008, 36, 1909-1921.	1.3	72
74	Cartilage Repair and Subchondral Bone Remodeling in Response to Focal Lesions in a Mini-Pig Model: Implications for Tissue Engineering. Tissue Engineering - Part A, 2015, 21, 850-860.	1.6	72
75	Chondrocyte Translocation Response to Direct Current Electric Fields. Journal of Biomechanical Engineering, 2000, 122, 261-267.	0.6	71
76	The Detrimental Effects of Systemic Ibuprofen Delivery on Tendon Healing Are Time-Dependent. Clinical Orthopaedics and Related Research, 2014, 472, 2433-2439.	0.7	70
77	IL-1ra delivered from poly(lactic-co-glycolic acid) microspheres attenuates IL-1beta mediated degradation of nucleus pulposus in vitro. Arthritis Research and Therapy, 2012, 14, R179.	1.6	69
78	Repair of dense connective tissues via biomaterial-mediated matrix reprogramming of the wound interface. Biomaterials, 2015, 39, 85-94.	5.7	67
79	Cell therapy for the degenerating intervertebral disc. Translational Research, 2017, 181, 49-58.	2.2	67
80	Decorin Regulates the Aggrecan Network Integrity and Biomechanical Functions of Cartilage Extracellular Matrix. ACS Nano, 2019, 13, 11320-11333.	7.3	67
81	Macro- to Microscale Strain Transfer in Fibrous Tissues is Heterogeneous and Tissue-Specific. Biophysical Journal, 2013, 105, 807-817.	0.2	66
82	Evaluation of the Complex Transcriptional Topography of Mesenchymal Stem Cell Chondrogenesis for Cartilage Tissue Engineering. Tissue Engineering - Part A, 2010, 16, 2699-2708.	1.6	65
83	Translation of an injectable triple-interpenetrating-network hydrogel for intervertebral disc regeneration in a goat model. Acta Biomaterialia, 2017, 60, 201-209.	4.1	65
84	Early changes in cartilage pericellular matrix micromechanobiology portend the onset of post-traumatic osteoarthritis. Acta Biomaterialia, 2020, 111, 267-278.	4.1	65
85	Functional tissue engineering of chondral and osteochondral constructs. Biorheology, 2004, 41, 577-90.	1.2	65
86	ISSLS Prize Winner: Integrating Theoretical and Experimental Methods for Functional Tissue Engineering of the Annulus Fibrosus. Spine, 2008, 33, 2691-2701.	1.0	64
87	Cartilage Interstitial Fluid Load Support in Unconfined Compression Following Enzymatic Digestion. Journal of Biomechanical Engineering, 2004, 126, 779-786.	0.6	62
88	Title is missing!. Transport in Porous Media, 2003, 50, 5-33.	1.2	59
89	Fiber angle and aspect ratio influence the shear mechanics of oriented electrospun nanofibrous scaffolds. Journal of the Mechanical Behavior of Biomedical Materials, 2011, 4, 1627-1636.	1.5	59
90	Electrospinning of photocrosslinked and degradable fibrous scaffolds. Journal of Biomedical Materials Research - Part A, 2008, 87A, 1034-1043.	2.1	58

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91	Biomaterials in the repair of sports injuries. Nature Materials, 2012, 11, 652-654.	13.3	58
92	Dynamic Loading and Tendon Healing Affect Multiscale Tendon Properties and ECM Stress Transmission. Scientific Reports, 2018, 8, 10854.	1.6	58
93	Aberrant mechanosensing in injured intervertebral discs as a result of boundary-constraint disruption and residual-strain loss. Nature Biomedical Engineering, 2019, 3, 998-1008.	11.6	58
94	Improved cartilage repair via<i>in vitro</i>pre-maturation of MSC-seeded hyaluronic acid hydrogels. Biomedical Materials (Bristol), 2012, 7, 024110.	1.7	57
95	The Nuclear Option: Evidence Implicating the Cell Nucleus in Mechanotransduction. Journal of Biomechanical Engineering, 2017, 139, .	0.6	57
96	Mechanically Activated Microcapsules for â€œOnâ€Demandâ€•Drug Delivery in Dynamically Loaded Musculoskeletal Tissues. Advanced Functional Materials, 2019, 29, 1807909.	7.8	57
97	Maturation State-Dependent Alterations in Meniscus Integration: Implications for Scaffold Design and Tissue Engineering. Tissue Engineering - Part A, 2011, 17, 193-204.	1.6	56
98	Biomaterial-mediated delivery of degradative enzymes to improve meniscus integration and repair. Acta Biomaterialia, 2013, 9, 6393-6402.	4.1	56
99	Mechanically Induced Chromatin Condensation Requires Cellular Contractility in Mesenchymal Stem Cells. Biophysical Journal, 2016, 111, 864-874.	0.2	56
100	Nucleus pulposus cells synthesize a functional extracellular matrix and respond to inflammatory cytokine challenge following long-term agarose culture. , 2011, 22, 291-301.		56
101	Functional properties of bone marrow-derived MSC-based engineered cartilage are unstable with very long-term in vitro culture. Journal of Biomechanics, 2014, 47, 2173-2182.	0.9	55
102	Multi-scale Structural and Tensile Mechanical Response of Annulus Fibrosus to Osmotic Loading. Annals of Biomedical Engineering, 2012, 40, 1610-1621.	1.3	54
103	Porosity and Cell Preseeding Influence Electrospun Scaffold Maturation and Meniscus IntegrationIn Vitro. Tissue Engineering - Part A, 2013, 19, 538-547.	1.6	54
104	Phenotypic stability, matrix elaboration and functional maturation of nucleus pulposus cells encapsulated in photocrosslinkable hyaluronic acid hydrogels. Acta Biomaterialia, 2015, 12, 21-29.	4.1	53
105	Cartilage Matrix Formation by Bovine Mesenchymal Stem Cells in Three-dimensional Culture Is Age-dependent. Clinical Orthopaedics and Related Research, 2011, 469, 2744-2753.	0.7	52
106	<sup />Thermosensitive Poly(N-vinylcaprolactam) Injectable Hydrogels for Cartilage Tissue Engineering. Tissue Engineering - Part A, 2017, 23, 935-945.	1.6	51
107	Dose and Timing of Nâ€Cadherin Mimetic Peptides Regulate MSC Chondrogenesis within Hydrogels. Advanced Healthcare Materials, 2018, 7, e1701199.	3.9	51
108	Intervertebral Disc Degeneration Is Associated With Aberrant Endplate Remodeling and Reduced Small Molecule Transport. Journal of Bone and Mineral Research, 2020, 35, 1572-1581.	3.1	51

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109	Modeling interlamellar interactions in angle-ply biologic laminates for annulus fibrosus tissue engineering. Biomechanics and Modeling in Mechanobiology, 2011, 10, 973-984.	1.4	50
110	Highâ€throughput screening of a small molecule library for promoters and inhibitors of mesenchymal stem cell osteogenic differentiation. Biotechnology and Bioengineering, 2011, 108, 163-174.	1.7	50
111	Engineering meniscus structure and function via multi-layered mesenchymal stem cell-seeded nanofibrous scaffolds. Journal of Biomechanics, 2015, 48, 1412-1419.	0.9	49
112	A Chemomechanical Model of Matrix and Nuclear Rigidity Regulation of Focal Adhesion Size. Biophysical Journal, 2015, 109, 1807-1817.	0.2	49
113	Cross-Linking Chemistry of Tyramine-Modified Hyaluronan Hydrogels Alters Mesenchymal Stem Cell Early Attachment and Behavior. Biomacromolecules, 2017, 18, 855-864.	2.6	48
114	Metabolic Labeling to Probe the Spatiotemporal Accumulation of Matrix at the Chondrocyteâ€"Hydrogel Interface. Advanced Functional Materials, 2020, 30, 1909802.	7.8	48
115	In Vitro Characterization of a Stem-Cell-Seeded Triple-Interpenetrating-Network Hydrogel for Functional Regeneration of the Nucleus Pulposus. Tissue Engineering - Part A, 2014, 20, 1841-1849.	1.6	47
116	Extracellular vesicles mediate improved functional outcomes in engineered cartilage produced from MSC/chondrocyte cocultures. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1569-1578.	3.3	47
117	Fibrous Scaffolds with Varied Fiber Chemistry and Growth Factor Delivery Promote Repair in a Porcine Cartilage Defect Model. Tissue Engineering - Part A, 2015, 21, 2680-2690.	1.6	46
118	Correlations between quantitative <i>T</i>2 and <i>T</i>1<i>Ï</i> MRI, mechanical properties and biochemical composition in a rabbit lumbar intervertebral disc degeneration model. Journal of Orthopaedic Research, 2016, 34, 1382-1388.	1.2	46
119	Fiber Stretch and Reorientation Modulates Mesenchymal Stem Cell Morphology and Fibrous Gene Expression on Oriented Nanofibrous Microenvironments. Annals of Biomedical Engineering, 2011, 39, 2780-2790.	1.3	45
120	A radiopaque electrospun scaffold for engineering fibrous musculoskeletal tissues: Scaffold characterization and in vivo applications. Acta Biomaterialia, 2015, 26, 97-104.	4.1	45
121	From Repair to Regeneration: Biomaterials to Reprogram the Meniscus Wound Microenvironment. Annals of Biomedical Engineering, 2015, 43, 529-542.	1.3	44
122	Single-cell differences in matrix gene expression do not predict matrix deposition. Nature Communications, 2016, 7, 10865.	5.8	43
123	Crimped Nanofibrous Biomaterials Mimic Microstructure and Mechanics of Native Tissue and Alter Strain Transfer to Cells. ACS Biomaterials Science and Engineering, 2017, 3, 2869-2876.	2.6	41
124	Functional consequences of glucose and oxygen deprivation onÂengineered mesenchymal stem cell-based cartilage constructs. Osteoarthritis and Cartilage, 2015, 23, 134-142.	0.6	40
125	Nanofibrous hyaluronic acid scaffolds delivering TGF-Î²3 and SDF-1Î± for articular cartilage repair in a large animal model. Acta Biomaterialia, 2021, 126, 170-182.	4.1	40
126	Duty Cycle of Deformational Loading Influences the Growth of Engineered Articular Cartilage. Cellular and Molecular Bioengineering, 2009, 2, 386-394.	1.0	39

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127	Donor Variation and Optimization of Human Mesenchymal Stem Cell Chondrogenesis in Hyaluronic Acid. Tissue Engineering - Part A, 2018, 24, 1693-1703.	1.6	39
128	Maximizing cartilage formation and integration via a trajectory-based tissue engineering approach. Biomaterials, 2014, 35, 2140-2148.	5.7	38
129	Physiology and Engineering of the Graded Interfaces of Musculoskeletal Junctions. Annual Review of Biomedical Engineering, 2018, 20, 403-429.	5.7	38
130	Cartilage Mechanical Response under Dynamic Compression at Physiological Stress Levels Following Collagenase Digestion. Annals of Biomedical Engineering, 2008, 36, 425-434.	1.3	37
131	Biaxial mechanics and interâ€lamellar shearing of stemâ€cell seeded electrospun angleâ€ply laminates for annulus fibrosus tissue engineering. Journal of Orthopaedic Research, 2013, 31, 864-870.	1.2	37
132	Mediation of Cartilage Matrix Degeneration and Fibrillation by Decorin in Postâ€traumatic Osteoarthritis. Arthritis and Rheumatology, 2020, 72, 1266-1277.	2.9	37
133	Decorin regulates cartilage pericellular matrix micromechanobiology. Matrix Biology, 2021, 96, 1-17.	1.5	37
134	Sliding contact loading enhances the tensile properties of mesenchymal stem cell-seeded hydrogels. , 2012, 24, 29-45.		37
135	Nuclear softening expedites interstitial cell migration in fibrous networks and dense connective tissues. Science Advances, 2020, 6, eaax5083.	4.7	36
136	Effects of Mesenchymal Stem Cell and Growth Factor Delivery on Cartilage Repair in a Mini-Pig Model. Cartilage, 2016, 7, 174-184.	1.4	35
137	Intervertebral Disc Degeneration in a Percutaneous Mouse Tail Injury Model. American Journal of Physical Medicine and Rehabilitation, 2018, 97, 170-177.	0.7	35
138	Hypoxic Preconditioning Enhances Bone Marrowâ€“Derived Mesenchymal Stem Cell Survival in a Low Oxygen and Nutrient-Limited 3D Microenvironment. Cartilage, 2021, 12, 512-525.	1.4	35
139	High fidelity visualization of cell-to-cell variation and temporal dynamics in nascent extracellular matrix formation. Scientific Reports, 2016, 6, 38852.	1.6	34
140	Fabrication of MSC-laden composites of hyaluronic acid hydrogels reinforced with MEW scaffolds for cartilage repair. Biofabrication, 2022, 14, 014106.	3.7	34
141	Role of cell-associated matrix in the development of free-swelling and dynamically loaded chondrocyte-seeded agarose gels. Biorheology, 2004, 41, 223-37.	1.2	34
142	Biphasic Finite Element Modeling Reconciles Mechanical Properties of Tissue-Engineered Cartilage Constructs Across Testing Platforms. Tissue Engineering - Part A, 2017, 23, 663-674.	1.6	33
143	Fatigue loading of tendon results in collagen kinking and denaturation but does not change local tissue mechanics. Journal of Biomechanics, 2018, 71, 251-256.	0.9	33
144	Influence of Fiber Stiffness on Meniscal Cell Migration into Dense Fibrous Networks. Advanced Healthcare Materials, 2020, 9, e1901228.	3.9	33

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145	Nuclear envelope wrinkling predicts mesenchymal progenitor cell mechano-response in 2D and 3D microenvironments. Biomaterials, 2021, 270, 120662.	5.7	33
146	Dynamic deformational loading results in selective application of mechanical stimulation in a layered, tissue-engineered cartilage construct. Biorheology, 2006, 43, 497-507.	1.2	33
147	Maturation State and Matrix Microstructure Regulate Interstitial Cell Migration in Dense Connective Tissues. Scientific Reports, 2018, 8, 3295.	1.6	31
148	Mechano-adaptation of the stem cell nucleus. Nucleus, 2018, 9, 9-19.	0.6	31
149	Combined Hydrogel and Mesenchymal Stem Cell Therapy for Moderate-Severity Disc Degeneration in Goats. Tissue Engineering - Part A, 2021, 27, 117-128.	1.6	31
150	Age-Dependent Subchondral Bone Remodeling and Cartilage Repair in a Minipig Defect Model. Tissue Engineering - Part C: Methods, 2017, 23, 745-753.	1.1	30
151	ACVR1^{R206H} FOP mutation alters mechanosensing and tissue stiffness during heterotopic ossification. Molecular Biology of the Cell, 2019, 30, 17-29.	0.9	30
152	In vivo performance of an acellular discâ€like angle ply structure (DAPS) for total disc replacement in a small animal model. Journal of Orthopaedic Research, 2017, 35, 23-31.	1.2	29
153	Electrospun PLGA Nanofiber Scaffolds Release Ibuprofen Faster and Degrade Slower After In Vivo Implantation. Annals of Biomedical Engineering, 2017, 45, 2348-2359.	1.3	29
154	Elevated BMP and Mechanical Signaling Through YAP1/RhoA Poises FOP Mesenchymal Progenitors for Osteogenesis. Journal of Bone and Mineral Research, 2019, 34, 1894-1909.	3.1	29
155	Inflammatory cytokine and catabolic enzyme expression in a goat model of intervertebral disc degeneration. Journal of Orthopaedic Research, 2020, 38, 2521-2531.	1.2	28
156	Meniscus Tissue Engineering on the Nanoscale â€"<i>From Basic Principles to Clinical Application</i>. Journal of Knee Surgery, 2009, 22, 45-59.	0.9	27
157	The Influence of Fibrous Elastomer Structure and Porosity on Matrix Organization. PLoS ONE, 2010, 5, e15717.	1.1	27
158	Expansion of mesenchymal stem cells on electrospun scaffolds maintains stemness, mechanoâ€responsivity, and differentiation potential. Journal of Orthopaedic Research, 2018, 36, 808-815.	1.2	27
159	Low-Serum Media and Dynamic Deformational Loading in Tissue Engineering of Articular Cartilage. Annals of Biomedical Engineering, 2008, 36, 769-779.	1.3	26
160	Population average T2 MRI maps reveal quantitative regional transformations in the degenerating rabbit intervertebral disc that vary by lumbar level. Journal of Orthopaedic Research, 2015, 33, 140-148.	1.2	26
161	Mechanical function near defects in an aligned nanofiber composite is preserved by inclusion of disorganized layers: Insight into meniscus structure and function. Acta Biomaterialia, 2017, 56, 102-109.	4.1	26
162	Towards the scale up of tissue engineered intervertebral discs for clinical application. Acta Biomaterialia, 2018, 70, 154-164.	4.1	26

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163	Sprifermin treatment enhances cartilage integration in an in vitro repair model. Journal of Orthopaedic Research, 2018, 36, 2648-2656.	1.2	26
164	Biodegradable fibrous scaffolds with diverse properties by electrospinning candidates from a combinatorial macromer library. Acta Biomaterialia, 2010, 6, 1219-1226.	4.1	24
165	Fabrication and evaluation of biomimetic-synthetic nanofibrous composites for soft tissue regeneration. Cell and Tissue Research, 2012, 347, 803-813.	1.5	24
166	Enhanced nutrient transport improves the depth-dependent properties of tri-layered engineered cartilage constructs with zonal co-culture of chondrocytes and MSCs. Acta Biomaterialia, 2017, 58, 1-11.	4.1	24
167	Time-dependent functional maturation of scaffold-free cartilage tissue analogs. Journal of Biomechanics, 2014, 47, 2137-2142.	0.9	23
168	Anatomic Mesenchymal Stem Cell-Based Engineered Cartilage Constructs for Biologic Total Joint Replacement. Tissue Engineering - Part A, 2016, 22, 386-395.	1.6	23
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