Robert L Mauck

List of Publications by Year
in descending order

293 papers	18,449 citations	13099 68 h-index	16650 123 g-index
306 all docs	306 docs citations	306 times ranked	15014 citing authors

#	Article	IF	Citations
1	Level dependent alterations in human facet cartilage mechanics and bone morphometry with spine degeneration. Journal of Orthopaedic Research, 2023, 41, 674-683.	2.3	1
2	Fabrication of MSC-laden composites of hyaluronic acid hydrogels reinforced with MEW scaffolds for cartilage repair. Biofabrication, 2022, 14, 014106.	7.1	34
3	Near infrared spectroscopic assessment of engineered cartilage for implantation in a pre-clinical model. Journal of Cartilage & Joint Preservation, 2022, 2, 100038.	0.5	1
4	Metabolic labeling of secreted matrix to investigate cellâ€"material interactions in tissue engineering and mechanobiology. Nature Protocols, 2022, 17, 618-648.	12.0	14
5	Welcome to Volume 5!. JOR Spine, 2022, 5, e1200.	3.2	0
6	Gravity-based patterning of osteogenic factors to preserve bone structure after osteochondral injury in a large animal model. Biofabrication, 2022, 14, 044101.	7.1	8
7	Another milestone, accomplished!. JOR Spine, 2022, 5, .	3.2	0
8	Identifying small molecules for protecting chondrocyte function and matrix integrity after controlled compressive injury. Osteoarthritis and Cartilage Open, 2022, 4, 100289.	2.0	0
9	Hypoxic Preconditioning Enhances Bone Marrowâ€"Derived Mesenchymal Stem Cell Survival in a Low Oxygen and Nutrient-Limited 3D Microenvironment. Cartilage, 2021, 12, 512-525.	2.7	35
10	Resorbable Pins to Enhance Scaffold Retention in a Porcine Chondral Defect Model. Cartilage, 2021, 13, 1676S-1687S.	2.7	6
11	Putting the Pieces in Place: Mobilizing Cellular Players to Improve Annulus Fibrosus Repair. Tissue Engineering - Part B: Reviews, 2021, 27, 295-312.	4.8	19
12	Combined Hydrogel and Mesenchymal Stem Cell Therapy for Moderate-Severity Disc Degeneration in Goats. Tissue Engineering - Part A, 2021, 27, 117-128.	3.1	31
13	Optimized Media Volumes Enable Homogeneous Growth of Mesenchymal Stem Cell-Based Engineered Cartilage Constructs. Tissue Engineering - Part A, 2021, 27, 214-222.	3.1	3
14	Mechano-activated biomolecule release in regenerating load-bearing tissue microenvironments. Biomaterials, 2021, 265, 120255.	11.4	15
15	Decorin regulates cartilage pericellular matrix micromechanobiology. Matrix Biology, 2021, 96, 1-17.	3.6	37
16	Degeneration alters structureâ€function relationships at multiple lengthâ€scales and across interfaces in human intervertebral discs. Journal of Anatomy, 2021, 238, 986-998.	1.5	9
17	Stretch-responsive adhesive microcapsules for strain-regulated antibiotic release from fabric wound dressings. Biomaterials Science, 2021, 9, 5136-5143.	5.4	13
18	Fabrication and maturation of integrated biphasic anatomic mesenchymal stromal cellâ€laden composite scaffolds for osteochondral repair and joint resurfacing. Journal of Orthopaedic Research, 2021, 39, 2323-2332.	2.3	7

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19	A challenging playing field: Identifying the endogenous impediments to annulus fibrosus repair. JOR Spine, 2021, 4, e1133.	3.2	10
20	An impactful year for <scp><i>JOR Spine</i></scp>. JOR Spine, 2021, 4, e1144.	3.2	0
21	Nuclear envelope wrinkling predicts mesenchymal progenitor cell mechano-response in 2D and 3D microenvironments. Biomaterials, 2021, 270, 120662.	11.4	33
22	Stabilization of Damaged Articular Cartilage with Hydrogelâ€Mediated Reinforcement and Sealing. Advanced Healthcare Materials, 2021, 10, 2100315.	7.6	17
23	Cell morphology and mechanosensing can be decoupled in fibrous microenvironments and identified using artificial neural networks. Scientific Reports, 2021, 11, 5950.	3.3	13
24	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.	8.3	40
25	A major achievement and a very good news in this first half of 2021!. JOR Spine, 2021, 4, e1163.	3.2	0
26	Development of a decellularized meniscus matrix-based nanofibrous scaffold for meniscus tissue engineering. Acta Biomaterialia, 2021, 128, 175-185.	8.3	20
27	Intrinsic and growthâ€mediated cell and matrix specialization during murine meniscus tissue assembly. FASEB Journal, 2021, 35, e21779.	0.5	11
28	Type V collagen regulates the structure and biomechanics of TMJ condylar cartilage: A fibrous-hyaline hybrid. Matrix Biology, 2021, 102, 1-19.	3.6	10
29	The porcine accessory carpal bone as a model for biologic joint replacement for trapeziometacarpal osteoarthritis. Acta Biomaterialia, 2021, 129, 159-168.	8.3	1
30	@<scp>JORSPine</scp>. JOR Spine, 2021, 4, e1172.	3.2	0
31	The Inner Annulus Fibrosus Encroaches on the Nucleus Pulposus in the Injured Mouse Tail Intervertebral Disc. American Journal of Physical Medicine and Rehabilitation, 2021, 100, 450-457.	1.4	3
32	Six-Month Outcomes of Clinically Relevant Meniscal Injury in a Large-Animal Model. Orthopaedic Journal of Sports Medicine, 2021, 9, 232596712110354.	1.7	4
33	Another year over, and a new one is up for highest impact!. JOR Spine, 2021, 4, e1190.	3.2	0
34	Influence of Fiber Stiffness on Meniscal Cell Migration into Dense Fibrous Networks. Advanced Healthcare Materials, 2020, 9, e1901228.	7.6	33
35	Magnetoâ€Driven Gradients of Diamagnetic Objects for Engineering Complex Tissues. Advanced Materials, 2020, 32, e2005030.	21.0	19
36	Protocols, new <scp>ARB</scp> members, and Awards!. JOR Spine, 2020, 3, e1128.	3.2	0

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37	Restoration of physiologic loading modulates engineered intervertebral disc structure and function in an in vivo model. JOR Spine, 2020, 3, e1086.	3.2	2
38	Biocompatibility and bioactivity of an FGF-loaded microsphere-based bilayer delivery system. Acta Biomaterialia, 2020, 111, 341-348.	8.3	16
39	Sacrificial Fibers Improve Matrix Distribution and Micromechanical Properties in a Tissue-Engineered Intervertebral Disc. Acta Biomaterialia, 2020, 111, 232-241.	8.3	22
40	Nuclear softening expedites interstitial cell migration in fibrous networks and dense connective tissues. Science Advances, 2020, 6, eaax5083.	10.3	36
41	Fabrication, maturation, and implantation of composite tissue-engineered total discs formed from native and mesenchymal stem cell combinations. Acta Biomaterialia, 2020, 114, 53-62.	8.3	17
42	Intervertebral Disc Degeneration Is Associated With Aberrant Endplate Remodeling and Reduced Small Molecule Transport. Journal of Bone and Mineral Research, 2020, 35, 1572-1581.	2.8	51
43	Metabolic Labeling to Probe the Spatiotemporal Accumulation of Matrix at the Chondrocyteâ€"Hydrogel Interface. Advanced Functional Materials, 2020, 30, 1909802.	14.9	48
44	Mediation of Cartilage Matrix Degeneration and Fibrillation by Decorin in Postâ€traumatic Osteoarthritis. Arthritis and Rheumatology, 2020, 72, 1266-1277.	5.6	37
45	Difficult times!. JOR Spine, 2020, 3, e1101.	3.2	0
46	Inflammatory cytokine and catabolic enzyme expression in a goat model of intervertebral disc degeneration. Journal of Orthopaedic Research, 2020, 38, 2521-2531.	2.3	28
47	Localized delivery of ibuprofen via a bilayer delivery system (BiLDS) for supraspinatus tendon healing in a rat model. Journal of Orthopaedic Research, 2020, 38, 2339-2349.	2.3	8
48	Transection of the medial meniscus anterior horn results in cartilage degeneration and meniscus remodeling in a large animal model. Journal of Orthopaedic Research, 2020, 38, 2696-2708.	2.3	19
49	Structure, function, and defect tolerance with maturation of the radial tie fiber network in the knee meniscus. Journal of Orthopaedic Research, 2020, 38, 2709-2720.	2.3	12
50	â€œLooping Inâ€•Mechanics: Mechanobiologic Regulation of the Nucleus and the Epigenome. Advanced Healthcare Materials, 2020, 9, e2000030.	7.6	16
51	Early changes in cartilage pericellular matrix micromechanobiology portend the onset of post-traumatic osteoarthritis. Acta Biomaterialia, 2020, 111, 267-278.	8.3	65
52	2020, A weird year!. JOR Spine, 2020, 3, e1136.	3.2	0
53	In memory of Peter Roughly and John Mort: Time for a â€œbiochemicalâ€•reflection. JOR Spine, 2019, 2, e1062.	3.2	1
54	A common language for evaluating disc degeneration and regeneration: A <i>JOR Spine</i>/ORS Spine Section initiative. JOR Spine, 2019, 2, e1056.	3.2	4

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55	A Systematic Review and Guide to Mechanical Testing for Articular Cartilage Tissue Engineering. Tissue Engineering - Part C: Methods, 2019, 25, 593-608.	2.1	74
56	Aberrant mechanosensing in injured intervertebral discs as a result of boundary-constraint disruption and residual-strain loss. Nature Biomedical Engineering, 2019, 3, 998-1008.	22.5	58
57	Decorin Regulates the Aggrecan Network Integrity and Biomechanical Functions of Cartilage Extracellular Matrix. ACS Nano, 2019, 13, 11320-11333.	14.6	67
58	Emerging therapies for cartilage regeneration in currently excluded â€˜red kneeâ€™ populations. Npj Regenerative Medicine, 2019, 4, 12.	5.2	88
59	Elevated BMP and Mechanical Signaling Through YAP1/RhoA Poises FOP Mesenchymal Progenitors for Osteogenesis. Journal of Bone and Mineral Research, 2019, 34, 1894-1909.	2.8	29
60	Local nascent protein deposition and remodelling guide mesenchymal stromal cell mechanosensing and fate in three-dimensional hydrogels. Nature Materials, 2019, 18, 883-891.	27.5	273
61	New year, new initiatives!. JOR Spine, 2019, 2, e1048.	3.2	0
62	Mechanically Activated Microcapsules for â€œOnâ€Demandâ€•Drug Delivery in Dynamically Loaded Musculoskeletal Tissues. Advanced Functional Materials, 2019, 29, 1807909.	14.9	57
63	Another leap forward: PubMed Central indexing and Global Review Series. JOR Spine, 2019, 2, e1075.	3.2	0
64	Spatial distribution of type II collagen gene expression in the mouse intervertebral disc. JOR Spine, 2019, 2, e1070.	3.2	10
65	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.	7.1	47
66	Cell migration: implications for repair and regeneration in joint disease. Nature Reviews Rheumatology, 2019, 15, 167-179.	8.0	94
67	ACVR1^{R206H} FOP mutation alters mechanosensing and tissue stiffness during heterotopic ossification. Molecular Biology of the Cell, 2019, 30, 17-29.	2.1	30
68	Bioactive factors for cartilage repair and regeneration: Improving delivery, retention, and activity. Acta Biomaterialia, 2019, 93, 222-238.	8.3	101
69	Expansion of mesenchymal stem cells on electrospun scaffolds maintains stemness, mechanoâ€responsivity, and differentiation potential. Journal of Orthopaedic Research, 2018, 36, 808-815.	2.3	27
70	Fatigue loading of tendon results in collagen kinking and denaturation but does not change local tissue mechanics. Journal of Biomechanics, 2018, 71, 251-256.	2.1	33
71	Maturation State and Matrix Microstructure Regulate Interstitial Cell Migration in Dense Connective Tissues. Scientific Reports, 2018, 8, 3295.	3.3	31
72	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.	7.1	183

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73	Welcome to <i>JOR Spine</i>!. JOR Spine, 2018, 1, e1009.	3.2	0
74	Physiology and Engineering of the Graded Interfaces of Musculoskeletal Junctions. Annual Review of Biomedical Engineering, 2018, 20, 403-429.	12.3	38
75	Combinatorial hydrogels with biochemical gradients for screening 3D cellular microenvironments. Nature Communications, 2018, 9, 614.	12.8	150
76	Towards the scale up of tissue engineered intervertebral discs for clinical application. Acta Biomaterialia, 2018, 70, 154-164.	8.3	26
77	Dose and Timing of Nâ€Cadherin Mimetic Peptides Regulate MSC Chondrogenesis within Hydrogels. Advanced Healthcare Materials, 2018, 7, e1701199.	7.6	51
78	Impacts of maturation on the micromechanics of the meniscus extracellular matrix. Journal of Biomechanics, 2018, 72, 252-257.	2.1	14
79	Near-Infrared Spectroscopy Predicts Compositional and Mechanical Properties of Hyaluronic Acid-Based Engineered Cartilage Constructs. Tissue Engineering - Part A, 2018, 24, 106-116.	3.1	15
80	Comparison of Fixation Techniques of 3D-Woven Poly(Ïµ-Caprolactone) Scaffolds for Cartilage Repair in a Weightbearing Porcine Large Animal Model. Cartilage, 2018, 9, 428-437.	2.7	19
81	Intervertebral Disc Degeneration in a Percutaneous Mouse Tail Injury Model. American Journal of Physical Medicine and Rehabilitation, 2018, 97, 170-177.	1.4	35
82	Role of dexamethasone in the longâ€term functional maturation of MSCâ€laden hyaluronic acid hydrogels for cartilage tissue engineering. Journal of Orthopaedic Research, 2018, 36, 1717-1727.	2.3	6
83	Mechano-adaptation of the stem cell nucleus. Nucleus, 2018, 9, 9-19.	2.2	31
84	JOR Spine : A (first) year in review. JOR Spine, 2018, 1, e1041.	3.2	0
85	Future of spine research: â€œThe Asian perspectivesâ€. JOR Spine, 2018, 1, e1019.	3.2	0
86	Long-term mechanical function and integration of an implanted tissue-engineered intervertebral disc. Science Translational Medicine, 2018, 10, .	12.4	82
87	Advancing cell therapies for intervertebral disc regeneration from the lab to the clinic: Recommendations of the ORS spine section. JOR Spine, 2018, 1, e1036.	3.2	74
88	Donor Variation and Optimization of Human Mesenchymal Stem Cell Chondrogenesis in Hyaluronic Acid. Tissue Engineering - Part A, 2018, 24, 1693-1703.	3.1	39
89	Chondrocyte and mesenchymal stem cell derived engineered cartilage exhibits differential sensitivity to proâ€inflammatory cytokines. Journal of Orthopaedic Research, 2018, 36, 2901-2910.	2.3	18
90	Promise, progress, and problems in whole disc tissue engineering. JOR Spine, 2018, 1, e1015.	3.2	21

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91	Sprifermin treatment enhances cartilage integration in an in vitro repair model. Journal of Orthopaedic Research, 2018, 36, 2648-2656.	2.3	26
92	Dynamic Loading and Tendon Healing Affect Multiscale Tendon Properties and ECM Stress Transmission. Scientific Reports, 2018, 8, 10854.	3.3	58
93	A Wearable Magnet-Based System to Assess Activity and Joint Flexion in Humans and Large Animals. Annals of Biomedical Engineering, 2018, 46, 2069-2078.	2.5	9
94	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.	2.3	29
95	Cross-Linking Chemistry of Tyramine-Modified Hyaluronan Hydrogels Alters Mesenchymal Stem Cell Early Attachment and Behavior. Biomacromolecules, 2017, 18, 855-864.	5.4	48
96	The Nuclear Option: Evidence Implicating the Cell Nucleus in Mechanotransduction. Journal of Biomechanical Engineering, 2017, 139, .	1.3	57
97	Biphasic Finite Element Modeling Reconciles Mechanical Properties of Tissue-Engineered Cartilage Constructs Across Testing Platforms. Tissue Engineering - Part A, 2017, 23, 663-674.	3.1	33
98	<sup />Optimization of Preculture Conditions to Maximize the <i>In Vivo</i> Performance of Cell-Seeded Engineered Intervertebral Discs. Tissue Engineering - Part A, 2017, 23, 923-934.	3.1	13
99	<sup />Thermosensitive Poly(N-vinylcaprolactam) Injectable Hydrogels for Cartilage Tissue Engineering. Tissue Engineering - Part A, 2017, 23, 935-945.	3.1	51
100	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.	8.3	26
101	Micromechanical anisotropy and heterogeneity of the meniscus extracellular matrix. Acta Biomaterialia, 2017, 54, 356-366.	8.3	76
102	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.	8.3	24
103	Large Animal Models of Meniscus Repair and Regeneration: A Systematic Review of the State of the Field. Tissue Engineering - Part C: Methods, 2017, 23, 661-672.	2.1	23
104	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.	5.2	41
105	Cell therapy for the degenerating intervertebral disc. Translational Research, 2017, 181, 49-58.	5.0	67
106	Hypoxia and Tension Maintain Human Tenocyte Tissue Constructs in the 3D Microenvironment. Journal of Hand Surgery, 2017, 42, S47.	1.6	0
107	Translation of an injectable triple-interpenetrating-network hydrogel for intervertebral disc regeneration in a goat model. Acta Biomaterialia, 2017, 60, 201-209.	8.3	65
108	Age-Dependent Subchondral Bone Remodeling and Cartilage Repair in a Minipig Defect Model. Tissue Engineering - Part C: Methods, 2017, 23, 745-753.	2.1	30

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109	Programmed biomolecule delivery to enable and direct cell migration for connective tissue repair. Nature Communications, 2017, 8, 1780.	12.8	96
110	Electrospun PLGA Nanofiber Scaffolds Release Ibuprofen Faster and Degrade Slower After In Vivo Implantation. Annals of Biomedical Engineering, 2017, 45, 2348-2359.	2.5	29
111	A retinaculum-sparing surgical approach preserves porcine stifle joint cartilage in an experimental animal model of cartilage repair. Journal of Experimental Orthopaedics, 2017, 4, 11.	1.8	11
112	Autologous tendon-derived cell-seeded nanofibrous scaffolds improve rotator cuff repair in an age-dependent fashion. Journal of Orthopaedic Research, 2017, 35, 1250-1257.	2.3	23
113	Pediatric laryngotracheal reconstruction with tissueâ€engineered cartilage in a rabbit model. Laryngoscope, 2016, 126, S5-21.	2.0	17
114	Cationic gadolinium chelate for magnetic resonance imaging of cartilaginous defects. Contrast Media and Molecular Imaging, 2016, 11, 229-235.	0.8	1
115	Single-cell differences in matrix gene expression do not predict matrix deposition. Nature Communications, 2016, 7, 10865.	12.8	43
116	Stiffening hydrogels for investigating the dynamics of hepatic stellate cell mechanotransduction during myofibroblast activation. Scientific Reports, 2016, 6, 21387.	3.3	176
117	High fidelity visualization of cell-to-cell variation and temporal dynamics in nascent extracellular matrix formation. Scientific Reports, 2016, 6, 38852.	3.3	34
118	Single Cell Imaging to Probe Mesenchymal Stem Cell N-Cadherin Mediated Signaling within Hydrogels. Annals of Biomedical Engineering, 2016, 44, 1921-1930.	2.5	21
119	Effect of overuseâ€induced tendinopathy on tendon healing in a rat supraspinatus repair model. Journal of Orthopaedic Research, 2016, 34, 161-166.	2.3	21
120	Mechanically Induced Chromatin Condensation Requires Cellular Contractility in Mesenchymal Stem Cells. Biophysical Journal, 2016, 111, 864-874.	0.5	56
121	N-cadherin adhesive interactions modulate matrix mechanosensing and fate commitment of mesenchymal stem cells. Nature Materials, 2016, 15, 1297-1306.	27.5	262
122	Intervertebral disc development and disease-related genetic polymorphisms. Genes and Diseases, 2016, 3, 171-177.	3.4	18
123	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.	2.3	46
124	Anatomic Mesenchymal Stem Cell-Based Engineered Cartilage Constructs for Biologic Total Joint Replacement. Tissue Engineering - Part A, 2016, 22, 386-395.	3.1	23
125	Effects of Mesenchymal Stem Cell and Growth Factor Delivery on Cartilage Repair in a Mini-Pig Model. Cartilage, 2016, 7, 174-184.	2.7	35
126	Microstructural heterogeneity directs micromechanics and mechanobiology in native and engineered fibrocartilage. Nature Materials, 2016, 15, 477-484.	27.5	84

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127	To Serve and Protect: Hydrogels to Improve Stem Cell-Based Therapies. Cell Stem Cell, 2016, 18, 13-15.	11.1	158
128	Differentiation alters stem cell nuclear architecture, mechanics, and mechano-sensitivity. ELife, 2016, 5, .	6.0	138
129	Biophysical Regulation of Chromatin Architecture Instills a Mechanical Memory in Mesenchymal Stem Cells. Scientific Reports, 2015, 5, 16895.	3.3	148
130	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.	3.1	72
131	Engineering meniscus structure and function via multi-layered mesenchymal stem cell-seeded nanofibrous scaffolds. Journal of Biomechanics, 2015, 48, 1412-1419.	2.1	49
132	From Repair to Regeneration: Biomaterials to Reprogram the Meniscus Wound Microenvironment. Annals of Biomedical Engineering, 2015, 43, 529-542.	2.5	44
133	A radiopaque electrospun scaffold for engineering fibrous musculoskeletal tissues: Scaffold characterization and in vivo applications. Acta Biomaterialia, 2015, 26, 97-104.	8.3	45
134	Cytoskeletal to Nuclear Strain Transfer Regulates YAP Signaling in Mesenchymal Stem Cells. Biophysical Journal, 2015, 108, 2783-2793.	0.5	242
135	Hypoxic regulation of functional extracellular matrix elaboration by nucleus pulposus cells in longâ€term agarose culture. Journal of Orthopaedic Research, 2015, 33, 747-754.	2.3	12
136	Impact of guidance documents on translational large animal studies of cartilage repair. Science Translational Medicine, 2015, 7, 310re9.	12.4	19
137	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.	3.1	46
138	Development of a Large Animal Model of Osteochondritis Dissecans of the Knee. Orthopaedic Journal of Sports Medicine, 2015, 3, 232596711557001.	1.7	8
139	A Chemomechanical Model of Matrix and Nuclear Rigidity Regulation of Focal Adhesion Size. Biophysical Journal, 2015, 109, 1807-1817.	0.5	49
140	Phenotypic stability, matrix elaboration and functional maturation of nucleus pulposus cells encapsulated in photocrosslinkable hyaluronic acid hydrogels. Acta Biomaterialia, 2015, 12, 21-29.	8.3	53
141	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.	2.3	26
142	Repair of dense connective tissues via biomaterial-mediated matrix reprogramming of the wound interface. Biomaterials, 2015, 39, 85-94.	11.4	67
143	Functional consequences of glucose and oxygen deprivation onÂengineered mesenchymal stem cell-based cartilage constructs. Osteoarthritis and Cartilage, 2015, 23, 134-142.	1.3	40
144	T1rho Magnetic Resonance Imaging at 3T Detects Knee Cartilage Changes After Viscosupplementation. Orthopedics, 2015, 38, e604-10.	1.1	6

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145	In vivo retention and bioactivity of IL-1ra microspheres in the rat intervertebral disc: a preliminary investigation. Journal of Experimental Orthopaedics, 2014, 1, 15.	1.8	13
146	Editorial. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 38, 173.	3.1	0
147	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.	8.3	100
148	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.	3.1	47
149	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.	2.1	55
150	The Detrimental Effects of Systemic Ibuprofen Delivery on Tendon Healing Are Time-Dependent. Clinical Orthopaedics and Related Research, 2014, 472, 2433-2439.	1.5	70
151	Time-dependent functional maturation of scaffold-free cartilage tissue analogs. Journal of Biomechanics, 2014, 47, 2137-2142.	2.1	23
152	A high throughput mechanical screening device for cartilage tissue engineering. Journal of Biomechanics, 2014, 47, 2130-2136.	2.1	18
153	Pathogenesis and Prevention of Posttraumatic Osteoarthritis After Intra-articular Fracture. Journal of the American Academy of Orthopaedic Surgeons, The, 2014, 22, 20-28.	2.5	102
154	Maximizing cartilage formation and integration via a trajectory-based tissue engineering approach. Biomaterials, 2014, 35, 2140-2148.	11.4	38
155	Meniscal Anatomy. , 2014, , 1-7.		2
156	Basic Science of Meniscus Repair: Limitations and Emerging Strategies. , 2014, , 89-103.		0
157	Meniscal Scaffolds: Options Post Meniscectomy. , 2014, , 45-58.		0
158	Starting with form, emerging with function: nanofibrous scaffolds for tissue engineering of orthopedic tissues. Nanomedicine, 2013, 8, 505-508.	3.3	19
159	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.	7.1	344
160	Porosity and Cell Preseeding Influence Electrospun Scaffold Maturation and Meniscus IntegrationIn Vitro. Tissue Engineering - Part A, 2013, 19, 538-547.	3.1	54
161	Tissue Engineering and Regenerative Medicine: Recent Innovations and the Transition to Translation. Tissue Engineering - Part B: Reviews, 2013, 19, 1-13.	4.8	216
162	Erratum to â€œFiber-aligned polymer scaffolds for rotator cuff repair in a rat modelâ€•[J Shoulder Elbow Surg 2012 Feb;21(2):245-50]. Journal of Shoulder and Elbow Surgery, 2013, 22, 581.	2.6	0

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163	Organized nanofibrous scaffolds that mimic the macroscopic and microscopic architecture of the knee meniscus. Acta Biomaterialia, 2013, 9, 4496-4504.	8.3	73
164	Biomaterial-mediated delivery of degradative enzymes to improve meniscus integration and repair. Acta Biomaterialia, 2013, 9, 6393-6402.	8.3	56
165	Macro- to Microscale Strain Transfer in Fibrous Tissues is Heterogeneous and Tissue-Specific. Biophysical Journal, 2013, 105, 807-817.	0.5	66
166	The influence of hyaluronic acid hydrogel crosslinking density and macromolecular diffusivity on human MSC chondrogenesis and hypertrophy. Biomaterials, 2013, 34, 413-421.	11.4	265
167	Acellular Biomaterials: An Evolving Alternative to Cell-Based Therapies. Science Translational Medicine, 2013, 5, 176ps4.	12.4	113
168	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.	2.3	37
169	Tissue engineering for articular cartilage repair â€“ the state of the art. , 2013, 25, 248-267.		305
170	In Vivo Delivery of IL-1ra From PLGA Microspheres Prevents IL-1Î² Induced Glycosaminoglycan Loss in the Rat Caudal Intervertebral Disc. , 2013, , .		0
171	Engineering Meniscus Form and Function via Multi-Layer Cell-Seeded Nanofibrous Scaffolds With Circumferentially Aligned Fibers. , 2013, , .		0
172	Trajectory-Based Tissue Engineering for Cartilage Repair: Correlation Between Maturation Rate and Integration Capacity. , 2013, , .		0
173	Functional Consequences of Glucose and Oxygen Deprivation in Engineered MSC-Based Cartilage Constructs. , 2013, , .		0
174	Biological Assays. Handbook Series for Mechanical Engineering, 2013, , 293-338.	0.0	0
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