

# Lawrence J Bonassar

## List of Publications by Citations

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255  
papers

11,930  
citations

59  
h-index

98  
g-index

273  
ext. papers

13,310  
ext. citations

5  
avg, IF

6.4  
L-index

#	Paper	IF	Citations
255	Microfluidic scaffolds for tissue engineering. <i>Nature Materials</i> , <b>2007</b> , 6, 908-15	27	498
254	Direct freeform fabrication of seeded hydrogels in arbitrary geometries. <i>Tissue Engineering</i> , <b>2006</b> , 12, 1325-35		299
253	Replacement of an avulsed phalanx with tissue-engineered bone. <i>New England Journal of Medicine</i> , <b>2001</b> , 344, 1511-4	59.2	260
252	Tuning three-dimensional collagen matrix stiffness independently of collagen concentration modulates endothelial cell behavior. <i>Acta Biomaterialia</i> , <b>2013</b> , 9, 4635-44	10.8	246
251	Dense type I collagen matrices that support cellular remodeling and microfabrication for studies of tumor angiogenesis and vasculogenesis in vitro. <i>Biomaterials</i> , <b>2010</b> , 31, 8596-607	15.6	243
250	Injection molding of chondrocyte/alginate constructs in the shape of facial implants. <i>Journal of Biomedical Materials Research Part B</i> , <b>2001</b> , 55, 503-11		229
249	3D Bioprinting of Spatially Heterogeneous Collagen Constructs for Cartilage Tissue Engineering. <i>ACS Biomaterials Science and Engineering</i> , <b>2016</b> , 2, 1800-1805	5.5	216
248	The role of cartilage streaming potential, fluid flow and pressure in the stimulation of chondrocyte biosynthesis during dynamic compression. <i>Journal of Biomechanics</i> , <b>1995</b> , 28, 1055-66	2.9	211
247	Comparison of chondrogenesis in static and perfused bioreactor culture. <i>Biotechnology Progress</i> , <b>2000</b> , 16, 893-6	2.8	200
246	Matrix stiffening promotes a tumor vasculature phenotype. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 492-497	11.5	197
245	A microfluidic biomaterial. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 13788-9	16.4	190
244	Effect of substrate mechanics on chondrocyte adhesion to modified alginate surfaces. <i>Archives of Biochemistry and Biophysics</i> , <b>2004</b> , 422, 161-7	4.1	181
243	Tissue-engineered composites of anulus fibrosus and nucleus pulposus for intervertebral disc replacement. <i>Spine</i> , <b>2004</b> , 29, 1290-7; discussion 1297-8	3.3	179
242	The effect of dynamic compression on the response of articular cartilage to insulin-like growth factor-I. <i>Journal of Orthopaedic Research</i> , <b>2001</b> , 19, 11-7	3.8	177
241	Prevention of cartilage degeneration in a rat model of osteoarthritis by intraarticular treatment with recombinant lubricin. <i>Arthritis and Rheumatism</i> , <b>2009</b> , 60, 840-7		156
240	Tissue-engineered lung: an in vivo and in vitro comparison of polyglycolic acid and pluronic F-127 hydrogel/somatic lung progenitor cell constructs to support tissue growth. <i>Tissue Engineering</i> , <b>2006</b> , 12, 1213-25		148
239	Tissue engineering: The first decade and beyond. <i>Journal of Cellular Biochemistry</i> , <b>1998</b> , 72 Suppl 30-31, 297-303	4.7	139

238	Changes in cartilage composition and physical properties due to stromelysin degradation. <i>Arthritis and Rheumatism</i> , <b>1995</b> , 38, 173-83		138
237	Tissue-engineered intervertebral discs produce new matrix, maintain disc height, and restore biomechanical function to the rodent spine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 13106-11	11.5	136
236	High-fidelity tissue engineering of patient-specific auricles for reconstruction of pediatric microtia and other auricular deformities. <i>PLoS ONE</i> , <b>2013</b> , 8, e56506	3.7	135
235	Methods for photocrosslinking alginate hydrogel scaffolds with high cell viability. <i>Tissue Engineering - Part C: Methods</i> , <b>2011</b> , 17, 173-9	2.9	133
234	Characterization of polylactic acid-polyglycolic acid composites for cartilage tissue engineering. <i>Tissue Engineering</i> , <b>2003</b> , 9, 63-70		129
233	Biomechanical and biochemical characterization of composite tissue-engineered intervertebral discs. <i>Biomaterials</i> , <b>2006</b> , 27, 362-70	15.6	128
232	Temporal bone fractures: otic capsule sparing versus otic capsule violating clinical and radiographic considerations. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>1999</b> , 47, 1079-83	9.4	127
231	Self-assembly of aligned tissue-engineered annulus fibrosus and intervertebral disc composite via collagen gel contraction. <i>Tissue Engineering - Part A</i> , <b>2010</b> , 16, 1339-48	3.9	126
230	Lubrication mode analysis of articular cartilage using Stribeck surfaces. <i>Journal of Biomechanics</i> , <b>2008</b> , 41, 1910-8	2.9	126
229	Correlating rheological properties and printability of collagen bioinks: the effects of riboflavin photocrosslinking and pH. <i>Biofabrication</i> , <b>2017</b> , 9, 034102	10.5	121
228	Review of injectable cartilage engineering using fibrin gel in mice and swine models. <i>Tissue Engineering</i> , <b>2006</b> , 12, 1151-68		119
227	Autologous tissue-engineered trachea with sheep nasal chondrocytes. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2002</b> , 123, 1177-84	1.5	116
226	Additive manufacturing for in situ repair of osteochondral defects. <i>Biofabrication</i> , <b>2010</b> , 2, 035004	10.5	114
225	Mapping the depth dependence of shear properties in articular cartilage. <i>Journal of Biomechanics</i> , <b>2008</b> , 41, 2430-7	2.9	114
224	Detection of interleukin-1 in the cartilage of patients with osteoarthritis: a possible autocrine/paracrine role in pathogenesis. <i>Osteoarthritis and Cartilage</i> , <b>1997</b> , 5, 293-300	6.2	109
223	A composite tissue-engineered trachea using sheep nasal chondrocyte and epithelial cells. <i>FASEB Journal</i> , <b>2003</b> , 17, 823-8	0.9	109
222	Binding and localization of recombinant lubricin to articular cartilage surfaces. <i>Journal of Orthopaedic Research</i> , <b>2007</b> , 25, 283-92	3.8	108
221	Injectable tissue-engineered cartilage with different chondrocyte sources. <i>Plastic and Reconstructive Surgery</i> , <b>2004</b> , 113, 1361-71	2.7	104

220	Image-guided tissue engineering of anatomically shaped implants via MRI and micro-CT using injection molding. <i>Tissue Engineering - Part A</i> , <b>2008</b> , 14, 1195-202	3.9	103
219	Measurement of local strains in intervertebral disc anulus fibrosus tissue under dynamic shear: contributions of matrix fiber orientation and elastin content. <i>Journal of Biomechanics</i> , <b>2009</b> , 42, 2279-85 <sup>2.9</sup>	2.9	101
218	Poly(lactide-co-glycolide) microspheres as a moldable scaffold for cartilage tissue engineering. <i>Biomaterials</i> , <b>2005</b> , 26, 1945-52	15.6	92
217	Mechanical and physicochemical regulation of the action of insulin-like growth factor-I on articular cartilage. <i>Archives of Biochemistry and Biophysics</i> , <b>2000</b> , 379, 57-63	4.1	92
216	Cells (MC3T3-E1)-laden alginate scaffolds fabricated by a modified solid-freeform fabrication process supplemented with an aerosol spraying. <i>Biomacromolecules</i> , <b>2012</b> , 13, 2997-3003	6.9	90
215	Tissue engineering of autologous cartilage for craniofacial reconstruction by injection molding. <i>Plastic and Reconstructive Surgery</i> , <b>2003</b> , 112, 793-9; discussion 800-1	2.7	89
214	Direct perfusion measurements of cancellous bone anisotropic permeability. <i>Journal of Biomechanics</i> , <b>2001</b> , 34, 1197-202	2.9	89
213	An overview of tissue engineered bone. <i>Clinical Orthopaedics and Related Research</i> , <b>1999</b> , S375-81	2.2	86
212	Elastoviscous Transitions of Articular Cartilage Reveal a Mechanism of Synergy between Lubricin and Hyaluronic Acid. <i>PLoS ONE</i> , <b>2015</b> , 10, e0143415	3.7	85
211	Age dependence of biochemical and biomechanical properties of tissue-engineered human septal cartilage. <i>Biomaterials</i> , <b>2002</b> , 23, 3087-94	15.6	85
210	Integration of layered chondrocyte-seeded alginate hydrogel scaffolds. <i>Biomaterials</i> , <b>2007</b> , 28, 2987-93	15.6	78
209	Boundary mode lubrication of articular cartilage by recombinant human lubricin. <i>Journal of Orthopaedic Research</i> , <b>2009</b> , 27, 771-7	3.8	77
208	Inhibition of cartilage degradation and changes in physical properties induced by IL-1beta and retinoic acid using matrix metalloproteinase inhibitors. <i>Archives of Biochemistry and Biophysics</i> , <b>1997</b> , 344, 404-12	4.1	77
207	Identification and initial characterization of spore-like cells in adult mammals. <i>Journal of Cellular Biochemistry</i> , <b>2001</b> , 80, 455-460	4.7	76
206	Cell(MC3T3-E1)-printed poly(?-caprolactone)/alginate hybrid scaffolds for tissue regeneration. <i>Macromolecular Rapid Communications</i> , <b>2013</b> , 34, 142-9	4.8	72
205	Increased mixing improves hydrogel homogeneity and quality of three-dimensional printed constructs. <i>Tissue Engineering - Part C: Methods</i> , <b>2011</b> , 17, 239-48	2.9	68
204	A novel approach to regenerating periodontal tissue by grafting autologous cultured periosteum. <i>Tissue Engineering</i> , <b>2006</b> , 12, 1227-335		68
203	Recent advances in biological therapies for disc degeneration: tissue engineering of the annulus fibrosus, nucleus pulposus and whole intervertebral discs. <i>Current Opinion in Biotechnology</i> , <b>2013</b> , 24, 872-9	11.4	67

202	The effects of needle puncture injury on microscale shear strain in the intervertebral disc annulus fibrosus. <i>Spine Journal</i> , <b>2010</b> , 10, 1098-105	4	67
201	Three-Dimensional Bioprinting and Its Potential in the Field of Articular Cartilage Regeneration. <i>Cartilage</i> , <b>2017</b> , 8, 327-340	3	64
200	In vivo tibial compression decreases osteolysis and tumor formation in a human metastatic breast cancer model. <i>Journal of Bone and Mineral Research</i> , <b>2013</b> , 28, 2357-67	6.3	64
199	Modeling the dynamic composition of engineered cartilage. <i>Archives of Biochemistry and Biophysics</i> , <b>2002</b> , 408, 246-54	4.1	64
198	An allogenic cell-based implant for meniscal lesions. <i>American Journal of Sports Medicine</i> , <b>2006</b> , 34, 1779-89		63
197	High-resolution spatial mapping of shear properties in cartilage. <i>Journal of Biomechanics</i> , <b>2010</b> , 43, 796-800		60
196	Structure-function relations and rigidity percolation in the shear properties of articular cartilage. <i>Biophysical Journal</i> , <b>2014</b> , 107, 1721-30	2.9	59
195	Age-related changes in the composition and mechanical properties of human nasal cartilage. <i>Archives of Biochemistry and Biophysics</i> , <b>2002</b> , 403, 132-40	4.1	59
194	Biomechanical analysis of a chondrocyte-based repair model of articular cartilage. <i>Tissue Engineering</i> , <b>1999</b> , 5, 317-26		59
193	Integrative repair of cartilage with articular and nonarticular chondrocytes. <i>Tissue Engineering</i> , <b>2004</b> , 10, 1308-15		57
192	Analysis of bending behavior of native and engineered auricular and costal cartilage. <i>Journal of Biomedical Materials Research Part B</i> , <b>2004</b> , 68, 597-602		54
191	Post-traumatic osteoarthritis of the ankle: A distinct clinical entity requiring new research approaches. <i>Journal of Orthopaedic Research</i> , <b>2017</b> , 35, 440-453	3.8	53
190	In vitro tissue engineering to generate a human-sized auricle and nasal tip. <i>Laryngoscope</i> , <b>2003</b> , 113, 90-4.6		53
189	A biomechanical analysis of an engineered cell-scaffold implant for cartilage repair. <i>Annals of Plastic Surgery</i> , <b>2001</b> , 46, 533-7	1.7	53
188	High density type I collagen gels for tissue engineering of whole menisci. <i>Acta Biomaterialia</i> , <b>2013</b> , 9, 7787-95	10.8	52
187	Dynamic compressive loading of image-guided tissue engineered meniscal constructs. <i>Journal of Biomechanics</i> , <b>2011</b> , 44, 509-16	2.9	52
186	Processing of type I collagen gels using nonenzymatic glycation. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2010</b> , 93, 843-51	5.4	51
185	Tissue-engineered calcium alginate patches in the repair of chronic chinchilla tympanic membrane perforations. <i>Laryngoscope</i> , <b>2006</b> , 116, 700-4	3.6	51

184	Role for interleukin 1alpha in the inhibition of chondrogenesis in autologous implants using polyglycolic acid-polylactic acid scaffolds. <i>Tissue Engineering</i> , <b>2005</b> , 11, 192-200		51
183	A novel injectable approach for cartilage formation in vivo using PLG microspheres. <i>Annals of Biomedical Engineering</i> , <b>2004</b> , 32, 418-29	4.7	50
182	Biological Treatment Approaches for Degenerative Disk Disease: A Literature Review of In Vivo Animal and Clinical Data. <i>Global Spine Journal</i> , <b>2016</b> , 6, 497-518	2.7	50
181	Measuring microscale strain fields in articular cartilage during rapid impact reveals thresholds for chondrocyte death and a protective role for the superficial layer. <i>Journal of Biomechanics</i> , <b>2015</b> , 48, 3440-8	2.9	49
180	Conditions affecting cell seeding onto three-dimensional scaffolds for cellular-based biodegradable implants. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2009</b> , 91, 80-7	3.5	49
179	Tissue-engineered spinal cord. <i>Transplantation Proceedings</i> , <b>2001</b> , 33, 592-8	1.1	49
178	Fabrication of cell-laden three-dimensional alginate-scaffolds with an aerosol cross-linking process. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 18735		47
177	Comparison of tracheal and nasal chondrocytes for tissue engineering of the trachea. <i>Annals of Thoracic Surgery</i> , <b>2003</b> , 76, 1884-8	2.7	47
176	High density cell seeding affects the rheology and printability of collagen bioinks. <i>Biofabrication</i> , <b>2019</b> , 11, 045016	10.5	46
175	Microstructured templates for directed growth and vascularization of soft tissue in vivo. <i>Biomaterials</i> , <b>2011</b> , 32, 5391-401	15.6	46
174	Cartilage degradation and associated changes in biomechanical and electromechanical properties. <i>Acta Orthopaedica</i> , <b>1995</b> , 66, 38-44		46
173	Annular repair using high-density collagen gel: a rat-tail in vivo model. <i>Spine</i> , <b>2014</b> , 39, 198-206	3.3	45
172	Effects of enzymatic treatments on the depth-dependent viscoelastic shear properties of articular cartilage. <i>Journal of Orthopaedic Research</i> , <b>2014</b> , 32, 1652-7	3.8	45
171	Modulation of lubricin biosynthesis and tissue surface properties following cartilage mechanical injury. <i>Arthritis and Rheumatism</i> , <b>2009</b> , 60, 133-42		45
170	Characterization of mesenchymal stem cells and fibrochondrocytes in three-dimensional co-culture: analysis of cell shape, matrix production, and mechanical performance. <i>Stem Cell Research and Therapy</i> , <b>2016</b> , 7, 39	8.3	44
169	Injectable, high-density collagen gels for annulus fibrosus repair: An in vitro rat tail model. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2015</b> , 103, 2571-81	5.4	43
168	Effect of media mixing on ECM assembly and mechanical properties of anatomically-shaped tissue engineered meniscus. <i>Biomaterials</i> , <b>2010</b> , 31, 6756-63	15.6	43
167	Cell-based bonding of articular cartilage: An extended study. <i>Journal of Biomedical Materials Research Part B</i> , <b>2003</b> , 64, 517-24		43

166	Molecular transport in articular cartilage - what have we learned from the past 50 years?. <i>Nature Reviews Rheumatology</i> , <b>2018</b> , 14, 393-403	8.1	42
165	Induction of fiber alignment and mechanical anisotropy in tissue engineered menisci with mechanical anchoring. <i>Journal of Biomechanics</i> , <b>2015</b> , 48, 1436-43	2.9	41
164	Localization of viscous behavior and shear energy dissipation in articular cartilage under dynamic shear loading. <i>Journal of Biomechanical Engineering</i> , <b>2013</b> , 135, 31002	2.1	41
163	Mechanical characterization of matrix-induced autologous chondrocyte implantation (MACI <sup>®</sup> ) grafts in an equine model at 53 weeks. <i>Journal of Biomechanics</i> , <b>2015</b> , 48, 1944-9	2.9	40
162	A role for the interleukin-1 receptor in the pathway linking static mechanical compression to decreased proteoglycan synthesis in surface articular cartilage. <i>Archives of Biochemistry and Biophysics</i> , <b>2003</b> , 413, 229-35	4.1	40
161	Riboflavin crosslinked high-density collagen gel for the repair of annular defects in intervertebral discs: An in vivo study. <i>Acta Biomaterialia</i> , <b>2015</b> , 26, 215-24	10.8	38
160	An optical method for evaluation of geometric fidelity for anatomically shaped tissue-engineered constructs. <i>Tissue Engineering - Part C: Methods</i> , <b>2010</b> , 16, 693-703	2.9	38
159	Effect of a poly(propylene fumarate) foaming cement on the healing of bone defects. <i>Tissue Engineering</i> , <b>1999</b> , 5, 305-16		38
158	Physiologically Distributed Loading Patterns Drive the Formation of Zonally Organized Collagen Structures in Tissue-Engineered Meniscus. <i>Tissue Engineering - Part A</i> , <b>2016</b> , 22, 907-16	3.9	38
157	Cell-laden poly( $\epsilon$ -caprolactone)/alginate hybrid scaffolds fabricated by an aerosol cross-linking process for obtaining homogeneous cell distribution: fabrication, seeding efficiency, and cell proliferation and distribution. <i>Tissue Engineering - Part C: Methods</i> , <b>2013</b> , 19, 784-93	2.9	36
156	Total disc replacement using tissue-engineered intervertebral discs in the canine cervical spine. <i>PLoS ONE</i> , <b>2017</b> , 12, e0185716	3.7	35
155	Porous poly(vinyl alcohol)-hydrogel matrix-engineered biosynthetic cartilage. <i>Tissue Engineering - Part A</i> , <b>2011</b> , 17, 301-9	3.9	35
154	Fabrication of tissue engineered tympanic membrane patches using computer-aided design and injection molding. <i>Laryngoscope</i> , <b>2004</b> , 114, 1290-5	3.6	35
153	Image-based tissue engineering of a total intervertebral disc implant for restoration of function to the rat lumbar spine. <i>NMR in Biomedicine</i> , <b>2012</b> , 25, 443-51	4.4	34
152	The effect of the duration of mechanical stimulation and post-stimulation culture on the structure and properties of dynamically compressed tissue-engineered menisci. <i>Tissue Engineering - Part A</i> , <b>2012</b> , 18, 1365-75	3.9	34
151	Activation and inhibition of endogenous matrix metalloproteinases in articular cartilage: effects on composition and biophysical properties. <i>Archives of Biochemistry and Biophysics</i> , <b>1996</b> , 333, 359-67	4.1	34
150	Insights into interstitial flow, shear stress, and mass transport effects on ECM heterogeneity in bioreactor-cultivated engineered cartilage hydrogels. <i>Biomechanics and Modeling in Mechanobiology</i> , <b>2012</b> , 11, 689-702	3.8	33
149	Chondrocyte calcium signaling in response to fluid flow is regulated by matrix adhesion in 3-D alginate scaffolds. <i>Archives of Biochemistry and Biophysics</i> , <b>2011</b> , 505, 112-7	4.1	33

148	Frictional properties of the meniscus improve after scaffold-augmented repair of partial meniscectomy: a pilot study. <i>Clinical Orthopaedics and Related Research</i> , <b>2011</b> , 469, 2817-23	2.2	33
147	Combined nucleus pulposus augmentation and annulus fibrosus repair prevents acute intervertebral disc degeneration after discectomy. <i>Science Translational Medicine</i> , <b>2020</b> , 12,	17.5	32
146	Binding and lubrication of biomimetic boundary lubricants on articular cartilage. <i>Journal of Orthopaedic Research</i> , <b>2017</b> , 35, 548-557	3.8	32
145	Image-guided tissue engineering. <i>Journal of Cellular and Molecular Medicine</i> , <b>2009</b> , 13, 1428-36	5.6	32
144	Non-enzymatic glycation of chondrocyte-seeded collagen gels for cartilage tissue engineering. <i>Journal of Orthopaedic Research</i> , <b>2008</b> , 26, 1434-9	3.8	32
143	Age dependence of cellular properties of human septal cartilage: implications for tissue engineering. <i>JAMA Otolaryngology</i> , <b>2001</b> , 127, 1248-52		32
142	Next Generation Tissue Engineering of Orthopedic Soft Tissue-to-Bone Interfaces. <i>MRS Communications</i> , <b>2017</b> , 7, 289-308	2.7	31
141	Microscale frictional strains determine chondrocyte fate in loaded cartilage. <i>Journal of Biomechanics</i> , <b>2018</b> , 74, 72-78	2.9	31
140	Annulus Fibrosus Repair Using High-Density Collagen Gel: An In Vivo Ovine Model. <i>Spine</i> , <b>2018</b> , 43, E208-E215	5.3	31
139	Tissue engineering cartilage with aged articular chondrocytes in vivo. <i>Plastic and Reconstructive Surgery</i> , <b>2006</b> , 118, 41-9; discussion 50-3	2.7	30
138	Aerosol delivery of mammalian cells for tissue engineering. <i>Biotechnology and Bioengineering</i> , <b>2005</b> , 91, 801-7	4.9	30
137	Anatomic variation of depth-dependent mechanical properties in neonatal bovine articular cartilage. <i>Journal of Orthopaedic Research</i> , <b>2013</b> , 31, 686-91	3.8	29
136	Role of TGF-beta and FGF in the treatment of radiation-impaired wounds using a novel drug delivery system. <i>Plastic and Reconstructive Surgery</i> , <b>2008</b> , 122, 1036-1045	2.7	29
135	Adhesive properties of laminated alginate gels for tissue engineering of layered structures. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2008</b> , 85, 611-8	5.4	29
134	Effects of chitosan coatings on polypropylene mesh for implantation in a rat abdominal wall model. <i>Tissue Engineering - Part A</i> , <b>2013</b> , 19, 2713-23	3.9	28
133	Biologic Annulus Fibrosus Repair: A Review of Preclinical In Vivo Investigations. <i>Tissue Engineering - Part B: Reviews</i> , <b>2018</b> , 24, 179-190	7.9	28
132	Mechanical properties and structure-function relationships in articular cartilage repaired using IGF-I gene-enhanced chondrocytes. <i>Journal of Orthopaedic Research</i> , <b>2016</b> , 34, 149-53	3.8	27
131	In vivo annular repair using high-density collagen gel seeded with annulus fibrosus cells. <i>Acta Biomaterialia</i> , <b>2018</b> , 79, 230-238	10.8	26



130	Interaction of epidermal growth factor and insulin-like growth factor-I in the regulation of growth plate chondrocytes. <i>Experimental Cell Research</i> , <b>1997</b> , 234, 1-6	4.2	25
129	Tissue-engineered human auricular cartilage demonstrates euploidy by flow cytometry. <i>Tissue Engineering</i> , <b>2002</b> , 8, 85-92		25
128	Mesenchymal Stem Cell-Seeded High-Density Collagen Gel for Annular Repair: 6-Week Results From In Vivo Sheep Models. <i>Neurosurgery</i> , <b>2019</b> , 85, E350-E359	3.2	25
127	Fibronectin mediates enhanced wear protection of lubricin during shear. <i>Biomacromolecules</i> , <b>2015</b> , 16, 2884-94	6.9	24
126	Mitoprotective therapy preserves chondrocyte viability and prevents cartilage degeneration in an ex vivo model of posttraumatic osteoarthritis. <i>Journal of Orthopaedic Research</i> , <b>2018</b> , 36, 2147	3.8	24
125	The effect of IGF-I on anatomically shaped tissue-engineered menisci. <i>Tissue Engineering - Part A</i> , <b>2013</b> , 19, 1443-50	3.9	24
124	Mitochondrial dysfunction is an acute response of articular chondrocytes to mechanical injury. <i>Journal of Orthopaedic Research</i> , <b>2018</b> , 36, 739-750	3.8	24
123	Fibroblasts regulate contractile force independent of MMP activity in 3D-collagen. <i>Biochemical and Biophysical Research Communications</i> , <b>2003</b> , 312, 725-32	3.4	24
122	Human talar and femoral cartilage have distinct mechanical properties near the articular surface. <i>Journal of Biomechanics</i> , <b>2016</b> , 49, 3320-3327	2.9	23
121	Initial investigation of individual and combined annulus fibrosus and nucleus pulposus repair ex vivo. <i>Acta Biomaterialia</i> , <b>2017</b> , 59, 192-199	10.8	23
120	Fiber development and matrix production in tissue-engineered menisci using bovine mesenchymal stem cells and fibrochondrocytes. <i>Connective Tissue Research</i> , <b>2017</b> , 58, 329-341	3.3	22
119	Characterization of Tissue Response to Impact Loads Delivered Using a Hand-Held Instrument for Studying Articular Cartilage Injury. <i>Cartilage</i> , <b>2015</b> , 6, 226-32	3	22
118	Assessment of intervertebral disc degeneration based on quantitative magnetic resonance imaging analysis: an in vivo study. <i>Spine</i> , <b>2014</b> , 39, E369-78	3.3	22
117	Parametric finite element analysis of physical stimuli resulting from mechanical stimulation of tissue engineered cartilage. <i>Journal of Biomechanical Engineering</i> , <b>2009</b> , 131, 061014	2.1	22
116	Matrix metalloproteinase activity synergizes with alpha2beta1 integrins to enhance collagen remodeling. <i>Experimental Cell Research</i> , <b>2005</b> , 310, 79-87	4.2	22
115	Clinical doses of radiation reduce collagen matrix stiffness. <i>APL Bioengineering</i> , <b>2018</b> , 2, 031901	6.6	21
114	Tissue-engineered intervertebral discs: MRI results and histology in the rodent spine. <i>Journal of Neurosurgery: Spine</i> , <b>2014</b> , 20, 443-51	2.8	21
113	Enhanced boundary lubrication properties of engineered menisci by lubricin localization with insulin-like growth factor I treatment. <i>Journal of Biomechanics</i> , <b>2014</b> , 47, 2183-8	2.9	21

112	Galectin-3 Binds to Lubricin and Reinforces the Lubricating Boundary Layer of Articular Cartilage. <i>Scientific Reports</i> , <b>2016</b> , 6, 25463	4.9	21
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