

Keita Ito

List of Publications by Year in descending order

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Version: 2024-02-01

257
papers

13,192
citations

30070

54
h-index

30087

103
g-index

268
all docs

268
docs citations

268
times ranked

10075
citing authors

#	ARTICLE	IF	CITATIONS
1	A bovine nucleus pulposus explant culture model. <i>Journal of Orthopaedic Research</i> , 2022, 40, 2089-2102.	2.3	7
2	Local variations in mechanical properties of human hamstring tendon autografts for anterior cruciate ligament reconstruction do not translate to a mechanically inferior strand. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 126, 105010.	3.1	3
3	Evaluating Initial Integration of Cell-Based Chondrogenic Constructs in Human Osteochondral Explants. <i>Tissue Engineering - Part C: Methods</i> , 2022, 28, 34-44.	2.1	5
4	Surface texture analysis of different focal knee resurfacing implants after 6 and 12 months in vivo in a goat model. <i>Journal of Orthopaedic Research</i> , 2022, . .	2.3	4
5	Comment on Grivas et al. Morphology, Development and Deformation of the Spine in Mild and Moderate Scoliosis: Are Changes in the Spine Primary or Secondary? <i>J. Clin. Med.</i> 2021, 10, 5901. <i>Journal of Clinical Medicine</i> , 2022, 11, 1160.	2.4	1
6	Injectable Hydrogels for Articular Cartilage and Nucleus Pulposus Repair: Status Quo and Prospects. <i>Tissue Engineering - Part A</i> , 2022, 28, 478-499.	3.1	13
7	Alkaline Phosphatase Activity of Serum Affects Osteogenic Differentiation Cultures. <i>ACS Omega</i> , 2022, 7, 12724-12733.	3.5	37
8	Ultrasound Shear Wave Elastography of the Intervertebral Disc and Idiopathic Scoliosis: A Systematic Review. <i>Ultrasound in Medicine and Biology</i> , 2022, 48, 721-729.	1.5	7
9	Viscoelastic Chondroitin Sulfate and Hyaluronic Acid Double-Network Hydrogels with Reversible Cross-Links. <i>Biomacromolecules</i> , 2022, 23, 1350-1365.	5.4	29
10	Exploration of Contributory Factors to an Unpleasant Bracing Experience of Adolescent Idiopathic Scoliosis Patients a Quantitative and Qualitative Research. <i>Children</i> , 2022, 9, 635.	1.5	2
11	The Spring Distraction System for Growth-Friendly Surgical Treatment of Early Onset Scoliosis: A Preliminary Report on Clinical Results and Safety after Design Iterations in a Prospective Clinical Trial. <i>Journal of Clinical Medicine</i> , 2022, 11, 3747.	2.4	5
12	The Relationship Between Proteoglycan Loss, Overloading-Induced Collagen Damage, and Cyclic Loading in Articular Cartilage. <i>Cartilage</i> , 2021, 13, 1501S-1512S.	2.7	12
13	An ex vivo human osteochondral culture model. <i>Journal of Orthopaedic Research</i> , 2021, 39, 871-879.	2.3	14
14	Misaligned spinal rods can induce high internal forces consistent with those observed to cause screw pullout and disc degeneration. <i>Spine Journal</i> , 2021, 21, 528-537.	1.3	14
15	Can sodium MRI be used as a method for mapping of cartilage stiffness?. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2021, 34, 327-336.	2.0	4
16	Quality of life of adolescent idiopathic scoliosis patients under brace treatment: a brief communication of literature review. <i>Quality of Life Research</i> , 2021, 30, 703-711.	3.1	27
17	Cell Sources for Human In vitro Bone Models. <i>Current Osteoporosis Reports</i> , 2021, 19, 88-100.	3.6	14
18	Hyaluronic acid and chondroitin sulfate (meth)acrylate-based hydrogels for tissue engineering: Synthesis, characteristics and pre-clinical evaluation. <i>Biomaterials</i> , 2021, 268, 120602.	11.4	104

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19	Hydrogel-Based Bioinks for Cell Electrowriting of Well-Organized Living Structures with Micrometer-Scale Resolution. <i>Biomacromolecules</i> , 2021, 22, 855-866.	5.4	54
20	Matrix Vesicles: Role in Bone Mineralization and Potential Use as Therapeutics. <i>Pharmaceuticals</i> , 2021, 14, 289.	3.8	44
21	An Organoid for Woven Bone. <i>Advanced Functional Materials</i> , 2021, 31, 2010524.	14.9	65
22	Validation of a finite element model of the thoracolumbar spine to study instrumentation level variations in early onset scoliosis correction. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 117, 104360.	3.1	6
23	A comprehensive tool box for large animal studies of intervertebral disc degeneration. <i>JOR Spine</i> , 2021, 4, e1162.	3.2	19
24	Proteoglycan 4 reduces friction more than other synovial fluid components for both cartilage-cartilage and cartilage-metal articulation. <i>Osteoarthritis and Cartilage</i> , 2021, 29, 894-904.	1.3	8
25	Spectroscopic photoacoustic imaging of cartilage damage. <i>Osteoarthritis and Cartilage</i> , 2021, 29, 1071-1080.	1.3	12
26	De novo neo-hyaline-cartilage from bovine organoids in viscoelastic hydrogels. <i>Acta Biomaterialia</i> , 2021, 128, 236-249.	8.3	26
27	Porous Geometry Guided Micro-mechanical Environment Within Scaffolds for Cell Mechanobiology Study in Bone Tissue Engineering. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 736489.	4.1	15
28	Ex vivo Bone Models and Their Potential in Preclinical Evaluation. <i>Current Osteoporosis Reports</i> , 2021, 19, 75-87.	3.6	21
29	Solid-phase silica-based extraction leads to underestimation of residual DNA in decellularized tissues. <i>Xenotransplantation</i> , 2021, 28, e12643.	2.8	9
30	Osteoblast-osteoclast co-cultures: A systematic review and map of available literature. <i>PLoS ONE</i> , 2021, 16, e0257724.	2.5	25
31	Patient-Specific Variations in Local Strain Patterns on the Surface of a Trussed Titanium Interbody Cage. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 750246.	4.1	3
32	Ultrasound-Based Quantification of Cartilage Damage After <i>In Vivo</i> Articulation With Metal Implants. <i>Cartilage</i> , 2021, 13, 1540S-1550S.	2.7	5
33	Notochordal Cell-Based Treatment Strategies and Their Potential in Intervertebral Disc Regeneration. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 780749.	3.7	21
34	Characterization of biomaterials intended for use in the nucleus pulposus of degenerated intervertebral discs. <i>Acta Biomaterialia</i> , 2020, 114, 1-15.	8.3	35
35	Impact of Culture Medium on Cellular Interactions in <i>in vitro</i> Co-culture Systems. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 911.	4.1	91
36	Viscoelastic cervical total disc replacement devices: Design concepts. <i>Spine Journal</i> , 2020, 20, 1911-1924.	1.3	19

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37	Comparison of annulus fibrosus cell collagen remodeling rates in a microtissue system. <i>Journal of Orthopaedic Research</i> , 2020, 39, 1955-1964.	2.3	1
38	T2* mapping in an equine articular groove model: Visualizing changes in collagen orientation. <i>Journal of Orthopaedic Research</i> , 2020, 38, 2383-2389.	2.3	6
39	Serum deprivation limits loss and promotes recovery of tenogenic phenotype in tendon cell culture systems. <i>Journal of Orthopaedic Research</i> , 2020, 39, 1561-1571.	2.3	17
40	The performance of resurfacing implants for focal cartilage defects depends on the degenerative condition of the opposing cartilage. <i>Clinical Biomechanics</i> , 2020, 79, 105052.	1.2	6
41	Accuracy of beam theory for estimating bone tissue modulus and yield stress from 3-point bending tests on rat femora. <i>Journal of Biomechanics</i> , 2020, 101, 109654.	2.1	6
42	Orbital seeding of mesenchymal stromal cells increases osteogenic differentiation and bone-like tissue formation. <i>Journal of Orthopaedic Research</i> , 2020, 38, 1228-1237.	2.3	24
43	Changes in scaffold porosity during bone tissue engineering in perfusion bioreactors considerably affect cellular mechanical stimulation for mineralization. <i>Bone Reports</i> , 2020, 12, 100265.	0.4	22
44	Fluid flow-induced cell stimulation in bone tissue engineering changes due to interstitial tissue formation in vitro. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2020, 36, e3342.	2.1	17
45	A Novel HR-pQCT Image Registration Approach Reveals Sex-Specific Changes in Cortical Bone Retraction With Aging. <i>Journal of Bone and Mineral Research</i> , 2020, 36, 1351-1363.	2.8	5
46	Multitechnology Biofabrication: A New Approach for the Manufacturing of Functional Tissue Structures?. <i>Trends in Biotechnology</i> , 2020, 38, 1316-1328.	9.3	68
47	Identifying potential patient-specific predictors for anterior cruciate ligament reconstruction outcome – a diagnostic in vitro tissue remodeling platform. <i>Journal of Experimental Orthopaedics</i> , 2020, 7, 48.	1.8	2
48	Usefulness of lead delivery catheter system for true right ventricular septal pacing. <i>European Heart Journal</i> , 2020, 41, .	2.2	0
49	Notochordal Cell Matrix As a Therapeutic Agent for Intervertebral Disc Regeneration. <i>Tissue Engineering - Part A</i> , 2019, 25, 830-841.	3.1	22
50	Development of a novel murine delayed secondary fracture healing in vivo model using periosteal cauterization. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2019, 139, 1743-1753.	2.4	5
51	Resorption of the calcium phosphate layer on S53P4 bioactive glass by osteoclasts. <i>Journal of Materials Science: Materials in Medicine</i> , 2019, 30, 94.	3.6	11
52	Uncompromised MRI of knee cartilage while incorporating sensitive sodium MRI. <i>NMR in Biomedicine</i> , 2019, 32, e4173.	2.8	8
53	The Implantation of Bioactive Glass Granules Can Contribute the Load-Bearing Capacity of Bones Weakened by Large Cortical Defects. <i>Materials</i> , 2019, 12, 3481.	2.9	2
54	Bi-layered micro-fibre reinforced hydrogels for articular cartilage regeneration. <i>Acta Biomaterialia</i> , 2019, 95, 297-306.	8.3	89

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55	From bone regeneration to three-dimensional in vitro models: tissue engineering of organized bone extracellular matrix. <i>Current Opinion in Biomedical Engineering</i> , 2019, 10, 107-115.	3.4	50
56	A multiscale computational fluid dynamics approach to simulate the micro-fluidic environment within a tissue engineering scaffold with highly irregular pore geometry. <i>Biomechanics and Modeling in Mechanobiology</i> , 2019, 18, 1965-1977.	2.8	33
57	Validation of distal radius failure load predictions by homogenized- and micro-finite element analyses based on second-generation high-resolution peripheral quantitative CT images. <i>Osteoporosis International</i> , 2019, 30, 1433-1443.	3.1	27
58	Hypotonicity differentially affects inflammatory marker production by nucleus pulposus tissue in simulated disc degeneration versus herniation. <i>Journal of Orthopaedic Research</i> , 2019, 37, 1110-1116.	2.3	4
59	Engineering myocardial tissue in vitro using stretchable microfiber scaffolds and human iPSC-derived cardiomyocytes. <i>Cardiovascular Research</i> , 2018, 114, S112-S112.	3.8	1
60	Mechanical behavior of a soft hydrogel reinforced with three-dimensional printed microfibre scaffolds. <i>Scientific Reports</i> , 2018, 8, 1245.	3.3	116
61	Collagen Damage Location in Articular Cartilage Differs if Damage is Caused by Excessive Loading Magnitude or Rate. <i>Annals of Biomedical Engineering</i> , 2018, 46, 605-615.	2.5	26
62	Biologic canine and human intervertebral disc repair by notochordal cell-derived matrix: from bench towards bedside. <i>Oncotarget</i> , 2018, 9, 26507-26526.	1.8	36
63	Localisation of mineralised tissue in a complex spinner flask environment correlates with predicted wall shear stress level localisation. , 2018, 36, 57-68.		44
64	Quantifying joint stiffness in clubfoot patients. <i>Clinical Biomechanics</i> , 2018, 60, 185-190.	1.2	5
65	Comparison of patient-specific computational models vs. clinical follow-up, for adjacent segment disc degeneration and bone remodelling after spinal fusion. <i>PLoS ONE</i> , 2018, 13, e0200899.	2.5	32
66	Comparison between in vitro and in vivo cartilage overloading studies based on a systematic literature review. <i>Journal of Orthopaedic Research</i> , 2018, 36, 2076-2086.	2.3	17
67	Osteochondral resurfacing implantation angle is more important than implant material stiffness. <i>Journal of Orthopaedic Research</i> , 2018, 36, 2911-2922.	2.3	12
68	Notochordal cell matrix: An inhibitor of neurite and blood vessel growth?. <i>Journal of Orthopaedic Research</i> , 2018, 36, 3188-3195.	2.3	8
69	Melt Electrowriting Allows Tailored Microstructural and Mechanical Design of Scaffolds to Advance Functional Human Myocardial Tissue Formation. <i>Advanced Functional Materials</i> , 2018, 28, 1803151.	14.9	125
70	Leaping the hurdles in developing regenerative treatments for the intervertebral disc from preclinical to clinical. <i>JOR Spine</i> , 2018, 1, e1027.	3.2	40
71	Flow rates in perfusion bioreactors to maximise mineralisation in bone tissue engineering in vitro. <i>Journal of Biomechanics</i> , 2018, 79, 232-237.	2.1	62
72	Notochordal cell matrix as a bioactive lubricant for the osteoarthritic joint. <i>Scientific Reports</i> , 2018, 8, 8875.	3.3	11

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73	The Regenerative Potential of Notochordal Cells in a Nucleus Pulposus Explant. <i>Global Spine Journal</i> , 2017, 7, 14-20.	2.3	10
74	Osteogenic protein 1 does not stimulate a regenerative effect in cultured human degenerated nucleus pulposus tissue. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 2127-2135.	2.7	11
75	Composition dependent mechanical behaviour of S53P4 bioactive glass putty for bone defect grafting. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 69, 301-306.	3.1	11
76	The effect of loading rate on the development of early damage in articular cartilage. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017, 16, 263-273.	2.8	26
77	The critical size of focal articular cartilage defects is associated with strains in the collagen fibers. <i>Clinical Biomechanics</i> , 2017, 50, 40-46.	1.2	21
78	Tissue Engineering: Melt Electrospinning Writing of Poly(̑-Hydroxymethylglycolide-̑-caprolactone) Based Scaffolds for Cardiac Tissue Engineering (Adv. Healthcare Mater. 18/2017). <i>Advanced Healthcare Materials</i> , 2017, 6, .	7.6	1
79	Melt Electrospinning Writing of Poly(̑-Hydroxymethylglycolide-̑-caprolactone) Based Scaffolds for Cardiac Tissue Engineering. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700311.	7.6	144
80	Bone Morphogenetic Protein-2, But Not Mesenchymal Stromal Cells, Exert Regenerative Effects on Canine and Human Nucleus Pulposus Cells. <i>Tissue Engineering - Part A</i> , 2017, 23, 233-242.	3.1	16
81	The initial repair response of articular cartilage after mechanically induced damage. <i>Journal of Orthopaedic Research</i> , 2017, 35, 1265-1273.	2.3	12
82	Moderately degenerated lumbar motion segments: Are they truly unstable?. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017, 16, 537-547.	2.8	8
83	Relative contribution of articular cartilage's constitutive components to load support depending on strain rate. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017, 16, 151-158.	2.8	46
84	Link-N: The missing link towards intervertebral disc repair is species-specific. <i>PLoS ONE</i> , 2017, 12, e0187831.	2.5	15
85	Notochordal-cell derived extracellular vesicles exert regenerative effects on canine and human nucleus pulposus cells. <i>Oncotarget</i> , 2017, 8, 88845-88856.	1.8	27
86	An Inflammatory Nucleus Pulposus Tissue Culture Model to Test Molecular Regenerative Therapies: Validation with Epigallocatechin 3-Gallate. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1640.	4.1	23
87	Pyoderma Gangrenosum Associated with Acute Respiratory Distress Syndrome. <i>American Journal of Medicine</i> , 2016, 129, e17-e18.	1.5	2
88	Micro-Finite Element analysis will overestimate the compressive stiffness of fractured cancellous bone. <i>Journal of Biomechanics</i> , 2016, 49, 2613-2618.	2.1	10
89	Moderately Degenerated Human Intervertebral Disks Exhibit a Less Geometrically Specific Collagen Fiber Orientation Distribution. <i>Global Spine Journal</i> , 2016, 6, 439-446.	2.3	8
90	Simulating the sensitivity of cell nutritive environment to composition changes within the intervertebral disc. <i>Journal of the Mechanics and Physics of Solids</i> , 2016, 90, 108-123.	4.8	11

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91	Increased caveolin-1 in intervertebral disc degeneration facilitates repair. <i>Arthritis Research and Therapy</i> , 2016, 18, 59.	3.5	19
92	Micro-aggregates do not influence bone marrow stromal cell chondrogenesis. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016, 10, 1021-1032.	2.7	5
93	The Stimulatory Effect of Notochordal Cell-Conditioned Medium in a Nucleus Pulposus Explant Culture. <i>Tissue Engineering - Part A</i> , 2016, 22, 103-110.	3.1	24
94	A computational spinal motion segment model incorporating a matrix composition-based model of the intervertebral disc. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 54, 194-204.	3.1	30
95	Deficiency of inducible and endothelial nitric oxide synthase results in diminished bone formation and delayed union and nonunion development. <i>Bone</i> , 2016, 83, 111-118.	2.9	27
96	A Well-Controlled Nucleus Pulposus Tissue Culture System with Injection Port for Evaluating Regenerative Therapies. <i>Annals of Biomedical Engineering</i> , 2016, 44, 1798-1807.	2.5	6
97	Silk fibroin as biomaterial for bone tissue engineering. <i>Acta Biomaterialia</i> , 2016, 31, 1-16.	8.3	608
98	Soluble and pelletable factors in porcine, canine and human notochordal cell-conditioned medium: implications for IVD regeneration. , 2016, 32, 163-180.		29
99	Reduced tonicity stimulates an inflammatory response in nucleus pulposus tissue that can be limited by a COX-2 specific inhibitor. <i>Journal of Orthopaedic Research</i> , 2015, 33, 1724-1731.	2.3	20
100	On the Relative Relevance of Subject-Specific Geometries and Degeneration-Specific Mechanical Properties for the Study of Cell Death in Human Intervertebral Disk Models. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015, 3, 5.	4.1	26
101	A tissue adaptation model based on strain-dependent collagen degradation and contact-guided cell traction. <i>Journal of Biomechanics</i> , 2015, 48, 823-831.	2.1	19
102	A survey of micro-finite element analysis for clinical assessment of bone strength: The first decade. <i>Journal of Biomechanics</i> , 2015, 48, 832-841.	2.1	77
103	Meniscus replacement: Influence of geometrical mismatches on chondroprotective capabilities. <i>Journal of Biomechanics</i> , 2015, 48, 1371-1376.	2.1	7
104	A potential mechanism for allometric trabecular bone scaling in terrestrial mammals. <i>Journal of Anatomy</i> , 2015, 226, 236-243.	1.5	10
105	Effect of coculturing canine notochordal, nucleus pulposus and mesenchymal stromal cells for intervertebral disc regeneration. <i>Arthritis Research and Therapy</i> , 2015, 17, 60.	3.5	31
106	Conditioned Medium Derived from Notochordal Cell-Rich Nucleus Pulposus Tissue Stimulates Matrix Production by Canine Nucleus Pulposus Cells and Bone Marrow-Derived Stromal Cells. <i>Tissue Engineering - Part A</i> , 2015, 21, 1077-1084.	3.1	42
107	A novel approach to estimate trabecular bone anisotropy from stress tensors. <i>Biomechanics and Modeling in Mechanobiology</i> , 2015, 14, 39-48.	2.8	23
108	Determination of hip-joint loading patterns of living and extinct mammals using an inverse Wolff's law approach. <i>Biomechanics and Modeling in Mechanobiology</i> , 2015, 14, 427-432.	2.8	33

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109	The species-specific regenerative effects of notochordal cell-conditioned medium on chondrocyte-like cells derived from degenerated human intervertebral discs. , 2015, 30, 132-147.		45
110	Biomaterials for intervertebral disc regeneration: past performance and possible future strategies. , 2015, 30, 210-231.		25
111	Can Notochordal Cells Promote Bone Marrow Stromal Cell Potential for Nucleus Pulposus Enrichment? A Simplified In Vitro System. Tissue Engineering - Part A, 2014, 20, 3241-3251.	3.1	8
112	An Analytical Approach to Investigate the Evolution of Bone Volume Fraction in Bone Remodeling Simulation at the Tissue and Cell Level. Journal of Biomechanical Engineering, 2014, 136, 031004.	1.3	6
113	The Effect of a Cyclooxygenase 2 Inhibitor on Early Degenerated Human Nucleus Pulposus Explants. Global Spine Journal, 2014, 4, 33-39.	2.3	8
114	Influence of the Temporal Deposition of Extracellular Matrix on the Mechanical Properties of Tissue-Engineered Cartilage. Tissue Engineering - Part A, 2014, 20, 1476-1485.	3.1	3
115	The Influence of Cell-Matrix Attachment and Matrix Development on the Micromechanical Environment of the Chondrocyte in Tissue-Engineered Cartilage. Tissue Engineering - Part A, 2014, 20, 3112-3121.	3.1	8
116	In situ label-free cell viability assessment of nucleus pulposus tissue. Journal of Orthopaedic Research, 2014, 32, 545-550.	2.3	4
117	Potential regenerative treatment strategies for intervertebral disc degeneration in dogs. BMC Veterinary Research, 2014, 10, 3.	1.9	44
118	Inter-individual variability of bone density and morphology distribution in the proximal femur and T12 vertebra. Bone, 2014, 60, 213-220.	2.9	21
119	Flow-perfusion interferes with chondrogenic and hypertrophic matrix production by mesenchymal stem cells. Journal of Biomechanics, 2014, 47, 2122-2129.	2.1	35
120	The importance of superficial collagen fibrils for the function of articular cartilage. Biomechanics and Modeling in Mechanobiology, 2014, 13, 41-51.	2.8	34
121	Ageing and degenerative changes of the intervertebral disc and their impact on spinal flexibility. European Spine Journal, 2014, 23 Suppl 3, S324-32.	2.2	73
122	Using notochordal cells of developmental origin to stimulate nucleus pulposus cells and bone marrow stromal cells for intervertebral disc regeneration. European Spine Journal, 2014, 23, 679-688.	2.2	20
123	The Effects of Matrix Inhomogeneities on the Cellular Mechanical Environment in Tissue-Engineered Cartilage: An In Silico Investigation. Tissue Engineering - Part C: Methods, 2014, 20, 104-115.	2.1	6
124	Deformation Thresholds for Chondrocyte Death and the Protective Effect of the Pericellular Matrix. Tissue Engineering - Part A, 2014, 20, 1870-1876.	3.1	16
125	A numerical model to study mechanically induced initiation and progression of damage in articular cartilage. Osteoarthritis and Cartilage, 2014, 22, 95-103.	1.3	72
126	Bone remodelling in humans is load-driven but not lazy. Nature Communications, 2014, 5, 4855.	12.8	212

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127	Increased Osmolarity and Cell Clustering Preserve Canine Notochordal Cell Phenotype in Culture. <i>Tissue Engineering - Part C: Methods</i> , 2014, 20, 652-662.	2.1	37
128	Locally measured microstructural parameters are better associated with vertebral strength than whole bone density. <i>Osteoporosis International</i> , 2014, 25, 1285-1296.	3.1	17
129	Advances in the diagnosis of degenerated lumbar discs and their possible clinical application. <i>European Spine Journal</i> , 2014, 23, 315-323.	2.2	53
130	Should a native depth-dependent distribution of human meniscus constitutive components be considered in FEA-models of the knee joint?. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 38, 242-250.	3.1	27
131	Intervertebral disc creep behavior assessment through an open source finite element solver. <i>Journal of Biomechanics</i> , 2014, 47, 297-301.	2.1	21
132	A multiscale analytical approach for bone remodeling simulations: Linking scales from collagen to trabeculae. <i>Bone</i> , 2014, 64, 303-313.	2.9	33
133	The role of endplate poromechanical properties on the nutrient availability in the intervertebral disc. <i>Osteoarthritis and Cartilage</i> , 2014, 22, 1053-1060.	1.3	63
134	Cell therapy for intervertebral disc repair: advancing cell therapy from bench to clinics. , 2014, 27s, 5-11.		61
135	Potential application of notochordal cells for intervertebral disc regeneration: an in vitro assessment. , 2014, 28, 68-81.		25
136	Stimulation of Canine Nucleus Pulposus Cells and Bone Marrow-Derived Stromal Cells with Notochordal Cell-Secreted Factors. <i>Global Spine Journal</i> , 2014, 4, s-0034-1376663-s-0034-1376663.	2.3	0
137	Subsidence of SB Charit® total disc replacement and the role of undersizing. <i>European Spine Journal</i> , 2013, 22, 2264-2270.	2.2	12
138	How preconditioning affects the measurement of poro-viscoelastic mechanical properties in biological tissues. <i>Biomechanics and Modeling in Mechanobiology</i> , 2013, 13, 503-13.	2.8	11
139	Is collagen fiber damage the cause of early softening in articular cartilage?. <i>Osteoarthritis and Cartilage</i> , 2013, 21, 136-143.	1.3	41
140	Alterations to the subchondral bone architecture during osteoarthritis: bone adaptation vs endochondral bone formation. <i>Osteoarthritis and Cartilage</i> , 2013, 21, 331-338.	1.3	38
141	Contribution of collagen fibers to the compressive stiffness of cartilaginous tissues. <i>Biomechanics and Modeling in Mechanobiology</i> , 2013, 12, 1221-1231.	2.8	23
142	Influence of tissue- and cell-scale extracellular matrix distribution on the mechanical properties of tissue-engineered cartilage. <i>Biomechanics and Modeling in Mechanobiology</i> , 2013, 12, 901-913.	2.8	22
143	Low Agarose Concentration and TGF- β 3 Distribute Extracellular Matrix in Tissue-Engineered Cartilage. <i>Tissue Engineering - Part A</i> , 2013, 19, 1621-1631.	3.1	9
144	The effect of tissue-engineered cartilage biomechanical and biochemical properties on its post-implantation mechanical behavior. <i>Biomechanics and Modeling in Mechanobiology</i> , 2013, 12, 43-54.	2.8	23

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145	Mode I crack propagation in hydrogels is step wise. <i>Engineering Fracture Mechanics</i> , 2013, 97, 72-79.	4.3	37
146	Validation of a bone loading estimation algorithm for patient-specific bone remodelling simulations. <i>Journal of Biomechanics</i> , 2013, 46, 941-948.	2.1	29
147	Long-term culture of bovine nucleus pulposus explants in a native environment. <i>Spine Journal</i> , 2013, 13, 454-463.	1.3	31
148	A novel approach to estimate trabecular bone anisotropy using a database approach. <i>Journal of Biomechanics</i> , 2013, 46, 2356-2362.	2.1	40
149	Subject-specific bone loading estimation in the human distal radius. <i>Journal of Biomechanics</i> , 2013, 46, 759-766.	2.1	43
150	Validation of an Open Source Finite Element Biphasic Poroelastic Model. Application to the Intervertebral Disc Biomechanics. , 2013, , .		3
151	Mechanisms of Intervertebral Disk Degeneration/Injury and Pain: A Review. <i>Global Spine Journal</i> , 2013, 3, 145-151.	2.3	73
152	Disk Degeneration and Pain. <i>Global Spine Journal</i> , 2013, 3, 125-126.	2.3	10
153	Sliding Indentation Enhances Collagen Content and Depth-Dependent Matrix Distribution in Tissue-Engineered Cartilage Constructs. <i>Tissue Engineering - Part A</i> , 2013, 19, 1949-1959.	3.1	15
154	The Effect of Dexamethasone and Triiodothyronine on Terminal Differentiation of Primary Bovine Chondrocytes and Chondrogenically Differentiated Mesenchymal Stem Cells. <i>PLoS ONE</i> , 2013, 8, e72973.	2.5	28
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