Sibylle Grad

List of Publications by Year
in descending order

151 papers	7,638 citations	50276 46 h-index	71685 76 g-index
165 all docs	165 docs citations	165 times ranked	5714 citing authors

#	Article	IF	Citations
1	A single-cell transcriptome of mesenchymal stromal cells to fabricate bioactive hydroxyapatite materials for bone regeneration. Bioactive Materials, 2022, 9, 281-298.	15.6	12
2	The function of CD146 in human annulus fibrosus cells and mechanism of the regulation by TGFâ€Î². Journal of Orthopaedic Research, 2022, 40, 1661-1671.	2.3	3
3	Hyaluronic acid-based interpenetrating network hydrogel as a cell carrier for nucleus pulposus repair. Carbohydrate Polymers, 2022, 277, 118828.	10.2	31
4	Editorial â€“ Disc Biology Special Issue. , 2022, 43, 1-3.		1
5	Comparison and optimization of sheep in vivo intervertebral disc injury model. JOR Spine, 2022, 5, .	3.2	7
6	Small molecules of herbal origin for osteoarthritis treatment: in vitro and in vivo evidence. Arthritis Research and Therapy, 2022, 24, 105.	3.5	10
7	Neoepitope fragments as biomarkers for different phenotypes of intervertebral disc degeneration. JOR Spine, 2022, 5, .	3.2	2
8	Small molecule-based treatment approaches for intervertebral disc degeneration: Current options and future directions. Theranostics, 2021, 11, 27-47.	10.0	101
9	Optimization of hyaluronic acid-tyramine/silk-fibroin composite hydrogels for cartilage tissue engineering and delivery of anti-inflammatory and anabolic drugs. Materials Science and Engineering C, 2021, 120, 111701.	7.3	72
10	One strike loading organ culture model to investigate the post-traumatic disc degenerative condition. Journal of Orthopaedic Translation, 2021, 26, 141-150.	3.9	21
11	An impaired healing model of osteochondral defect in papain-induced arthritis. Journal of Orthopaedic Translation, 2021, 26, 101-110.	3.9	8
12	Serum biomarkers for Modic changes in patients with chronic low back pain. European Spine Journal, 2021, 30, 1018-1027.	2.2	16
13	Uncovering the secretome of mesenchymal stromal cells exposed to healthy, traumatic, and degenerative intervertebral discs: a proteomic analysis. Stem Cell Research and Therapy, 2021, 12, 11.	5.5	38
14	Angiotensin II Type 1 Receptor Antagonist Losartan Inhibits TNF-Î±-Induced Inflammation and Degeneration Processes in Human Nucleus Pulposus Cells. Applied Sciences (Switzerland), 2021, 11, 417.	2.5	2
15	The effect of hyaluronic acid on nucleus pulposus extracellular matrix production through hypoxia-inducible factor-1Î± transcriptional activation of CD44 under hypoxia. , 2021, 41, 142-152.		9
16	A Proinflammatory, Degenerative Organ Culture Model to Simulate Early-Stage Intervertebral Disc Disease.. Journal of Visualized Experiments, 2021, , .	0.3	4
17	The Tissue Renin-Angiotensin System and Its Role in the Pathogenesis of Major Human Diseases: Quo Vadis?. Cells, 2021, 10, 650.	4.1	31
18	The Application of Mesenchymal Stromal Cells and Their Homing Capabilities to Regenerate the Intervertebral Disc. International Journal of Molecular Sciences, 2021, 22, 3519.	4.1	33

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19	A Hyaluronan and Platelet-Rich Plasma Hydrogel for Mesenchymal Stem Cell Delivery in the Intervertebral Disc: An Organ Culture Study. International Journal of Molecular Sciences, 2021, 22, 2963.	4.1	22
20	Transcriptional profiling of intervertebral disc in a postâ€traumatic early degeneration organ culture model. JOR Spine, 2021, 4, e1146.	3.2	4
21	Noninvasive multimodal fluorescence and magnetic resonance imaging of whole-organ intervertebral discs. Biomedical Optics Express, 2021, 12, 3214.	2.9	5
22	A comprehensive tool box for large animal studies of intervertebral disc degeneration. JOR Spine, 2021, 4, e1162.	3.2	19
23	In Vitro Evaluation of a Nanoparticle-Based mRNA Delivery System for Cells in the Joint. Biomedicines, 2021, 9, 794.	3.2	6
24	Therapeutic Strategies for IVD Regeneration through Hyaluronan/SDF-1-Based Hydrogel and Intravenous Administration of MSCs. International Journal of Molecular Sciences, 2021, 22, 9609.	4.1	7
25	Effect of nanoparticle based mrna delivery on modulation of inflammation in an osteochondral inflammation model. Osteoarthritis and Cartilage, 2021, 29, S13.	1.3	1
26	In Vitro Model to Investigate Communication between Dorsal Root Ganglion and Spinal Cord Glia. International Journal of Molecular Sciences, 2021, 22, 9725.	4.1	10
27	Effect of cyclic mechanical loading on immunoinflammatory microenvironment in biofabricating hydroxyapatite scaffold for bone regeneration. Bioactive Materials, 2021, 6, 3097-3108.	15.6	29
28	Evaluation of the influence of platelet-rich plasma (PRP), platelet lysate (PL) and mechanical loading on chondrogenesis in vitro. Scientific Reports, 2021, 11, 20188.	3.3	16
29	Quality control methods in musculoskeletal tissue engineering: from imaging to biosensors. Bone Research, 2021, 9, 46.	11.4	10
30	Establishment of an Ex Vivo Inflammatory Osteoarthritis Model With Human Osteochondral Explants. Frontiers in Bioengineering and Biotechnology, 2021, 9, 787020.	4.1	3
31	Effect of the CCL5-Releasing Fibrin Gel for Intervertebral Disc Regeneration. Cartilage, 2020, 11, 169-180.	2.7	22
32	Intervertebral disc organ culture for the investigation of disc pathology and regeneration â€" benefits, limitations, and future directions of bioreactors. Connective Tissue Research, 2020, 61, 304-321.	2.3	30
33	Evaluation of biomimetic hyaluronic-based hydrogels with enhanced endogenous cell recruitment and cartilage matrix formation. Acta Biomaterialia, 2020, 101, 293-303.	8.3	66
34	Mechanical and biological characterization of a composite annulus fibrosus repair strategy in an endplate delamination model. JOR Spine, 2020, 3, e1107.	3.2	8
35	Proinflammatory intervertebral disc cell and organ culture models induced by tumor necrosis factor alpha. JOR Spine, 2020, 3, e1104.	3.2	23
36	Mechanical Stress Inhibits Early Stages of Endogenous Cell Migration: A Pilot Study in an Ex Vivo Osteochondral Model. Polymers, 2020, 12, 1754.	4.5	5

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37	Identification and Characterization of Serum microRNAs as Biomarkers for Human Disc Degeneration: An RNA Sequencing Analysis. Diagnostics, 2020, 10, 1063.	2.6	5
38	Hypoxic stress enhances extension and branching of dorsal root ganglion neuronal outgrowth. JOR Spine, 2020, 3, e1090.	3.2	5
39	Bioprinting Tissue Analogues with Decellularized Extracellular Matrix Bioink for Regeneration and Tissue Models of Cartilage and Intervertebral Discs. Advanced Functional Materials, 2020, 30, 1909044.	14.9	48
40	Preclinical ex-vivo Testing of Anti-inflammatory Drugs in a Bovine Intervertebral Degenerative Disc Model. Frontiers in Bioengineering and Biotechnology, 2020, 8, 583.	4.1	26
41	Anti-Inflammatory and Chondroprotective Effects of Vanillic Acid and Epimedin C in Human Osteoarthritic Chondrocytes. Biomolecules, 2020, 10, 932.	4.0	33
42	Morphological and biomechanical effects of annulus fibrosus injury and repair in an ovine cervical model. JOR Spine, 2020, 3, e1074.	3.2	22
43	Animal Models of Osteochondral Defect for Testing Biomaterials. Biochemistry Research International, 2020, 2020, 1-12.	3.3	48
44	Enhanced chondrogenic phenotype of primary bovine articular chondrocytes in Fibrin-Hyaluronan hydrogel by multi-axial mechanical loading and FGF18. Acta Biomaterialia, 2020, 105, 170-179.	8.3	31
45	Comparison of different transfection methods for mRNA delivery in articular joint cells. Osteoarthritis and Cartilage, 2020, 28, S197-S198.	1.3	1
46	Direct and Intervertebral DiscMediated Sensitization of Dorsal Root Ganglion Neurons by Hypoxia and Low pH. Neurospine, 2020, 17, 42-59.	2.9	16
47	Functional cell phenotype induction with TGF-Î²1 and collagen-polyurethane scaffold for annulus fibrosus rupture repair. , 2020, 39, 1-17.		24
48	The tissue-renin-angiotensin-system of the human intervertebral disc. , 2020, 40, 115-132.		14
49	Fibrin-Hyaluronic Acid Hydrogel (RegenoGel) with Fibroblast Growth Factor-18 for In Vitro 3D Culture of Human and Bovine Nucleus Pulposus Cells. International Journal of Molecular Sciences, 2019, 20, 5036.	4.1	18
50	Kartogenin hydrolysis product 4-aminobiphenyl distributes to cartilage and mediates cartilage regeneration. Theranostics, 2019, 9, 7108-7121.	10.0	25
51	Fluorescence-Activated Cell Sorting Is More Potent to Fish Intervertebral Disk Progenitor Cells Than Magnetic and Beads-Based Methods. Tissue Engineering - Part C: Methods, 2019, 25, 571-580.	2.1	15
52	CD146/MCAM distinguishes stem cell subpopulations with distinct migration and regenerative potential in degenerative intervertebral discs. Osteoarthritis and Cartilage, 2019, 27, 1094-1105.	1.3	37
53	Developing Bioreactors to Host Joint-Derived Tissues That Require Mechanical Stimulation. , 2019, , 261-261.		1
54	Effect and mechanism of psoralidin on promoting osteogenesis and inhibiting adipogenesis. Phytomedicine, 2019, 61, 152860.	5.3	23

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55	Regulation of Inflammatory Response in Human Osteoarthritic Chondrocytes by Novel Herbal Small Molecules. International Journal of Molecular Sciences, 2019, 20, 5745.	4.1	19
56	Does Riluzole Influence Bone Formation?. Spine, 2019, 44, 1107-1117.	2.0	2
57	The Effect of Zoledronic Acid on Serum Biomarkers among Patients with Chronic Low Back Pain and Modic Changes in Lumbar Magnetic Resonance Imaging. Diagnostics, 2019, 9, 212.	2.6	10
58	Mesenchymal Stem Cell Homing Into Intervertebral Discs Enhances the Tie2-positive Progenitor Cell Population, Prevents Cell Death, and Induces a Proliferative Response. Spine, 2019, 44, 1613-1622.	2.0	27
59	Hyaluronan-based hydrogel delivering antimiR-221 for the guidance of endogenous cartilage repair. Osteoarthritis and Cartilage, 2018, 26, S163.	1.3	2
60	An intervertebral disc whole organ culture system to investigate proinflammatory and degenerative disc disease condition. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, e2051-e2061.	2.7	55
61	Mechanical loading of intervertebral disc modulates microglia proliferation, activation, and chemotaxis. Osteoarthritis and Cartilage, 2018, 26, 978-987.	1.3	37
62	Autologous Chondrocyte Implantation in Osteoarthritic Surroundings: TNFÎ± and Its Inhibition by Adalimumab in a Knee-Specific Bioreactor. American Journal of Sports Medicine, 2018, 46, 431-440.	4.2	16
63	Isolation of highâ€quality RNA from intervertebral disc tissue via pronase predigestion and tissue pulverization. JOR Spine, 2018, 1, e1017.	3.2	21
64	Mechanically stimulated osteochondral organ culture for evaluation of biomaterials in cartilage repair studies. Acta Biomaterialia, 2018, 81, 256-266.	8.3	40
65	Effects of Level, Loading Rate, Injury and Repair on Biomechanical Response of Ovine Cervical Intervertebral Discs. Annals of Biomedical Engineering, 2018, 46, 1911-1920.	2.5	13
66	Critical aspects and challenges for intervertebral disc repair and regenerationâ€"Harnessing advances in tissue engineering. JOR Spine, 2018, 1, e1029.	3.2	79
67	Successful fishing for nucleus pulposus progenitor cells of the intervertebral disc across species. JOR Spine, 2018, 1, e1018.	3.2	44
68	Stromal Cell Derived Factor-1-Mediated Migration of Mesenchymal Stem Cells Enhances Collagen Type II Expression in Intervertebral Disc. Tissue Engineering - Part A, 2018, 24, 1818-1830.	3.1	10
69	Intervertebral Disc Whole Organ Cultures. , 2018, , 67-101.		0
70	Cell Recruitment for Intervertebral Disc. , 2018, , 155-182.		0
71	Heterodimeric BMPâ€2/7 for nucleus pulposus regenerationâ€"In vitro and ex vivo studies. Journal of Orthopaedic Research, 2017, 35, 51-60.	2.3	45
72	The roles and perspectives of microRNAs as biomarkers for intervertebral disc degeneration. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 3481-3487.	2.7	46

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73	Intervertebral disc response to stem cell treatment is conditioned by disc state and cell carrier: An exÂvivo study. Journal of Orthopaedic Translation, 2017, 9, 43-51.	3.9	16
74	Bioreactor mechanically guided 3D mesenchymal stem cell chondrogenesis using a biocompatible novel thermo-reversible methylcellulose-based hydrogel. Scientific Reports, 2017, 7, 45018.	3.3	77
75	Injectable hyaluronic acid down-regulates interferon signaling molecules, IGFBP3 and IFIT3 in the bovine intervertebral disc. Acta Biomaterialia, 2017, 52, 118-129.	8.3	33
76	Ageing affects chondroitin sulfates and their synthetic enzymes in the intervertebral disc. Signal Transduction and Targeted Therapy, 2017, 2, 17049.	17.1	37
77	Hyaluronan supplementation as a mechanical regulator of cartilage tissue development under joint-kinematic-mimicking loading. Journal of the Royal Society Interface, 2017, 14, 20170255.	3.4	14
78	Poly(Î³-glutamic acid) and poly(Î³-glutamic acid)-based nanocomplexes enhance type II collagen production in intervertebral disc. Journal of Materials Science: Materials in Medicine, 2017, 28, 6.	3.6	20
79	CD146 defines commitment of cultured annulus fibrosus cells to express a contractile phenotype. Journal of Orthopaedic Research, 2016, 34, 1361-1372.	2.3	28
80	Angiopoietin-1 receptor Tie2 distinguishes multipotent differentiation capability in bovine coccygeal nucleus pulposus cells. Stem Cell Research and Therapy, 2016, 7, 75.	5.5	55
81	Unique glycosignature for intervertebral disc and articular cartilage cells and tissues in immaturity and maturity. Scientific Reports, 2016, 6, 23062.	3.3	18
82	Development of an ex vivo cavity model to study repair strategies in loaded intervertebral discs. European Spine Journal, 2016, 25, 2898-2908.	2.2	25
83	Mesenchymal Stem/Stromal Cells seeded on cartilaginous endplates promote Intervertebral Disc Regeneration through Extracellular Matrix Remodeling. Scientific Reports, 2016, 6, 33836.	3.3	37
84	Polyurethane scaffold with in situ swelling capacity for nucleus pulposus replacement. Biomaterials, 2016, 84, 196-209.	11.4	50
85	Systemic blood plasma CCL5 and CXCL6: Potential biomarkers for human lumbar disc degeneration. , 2016, 31, 1-10.		44
86	Gene Expression Profiling Identifies Interferon Signalling Molecules and IGFBP3 in Human Degenerative Annulus Fibrosus. Scientific Reports, 2015, 5, 15662.	3.3	53
87	A papain-induced disc degeneration model for the assessment of thermo-reversible hydrogel-cells therapeutic approach. Journal of Tissue Engineering and Regenerative Medicine, 2015, 9, E167-E176.	2.7	28
88	A Nucleotomy Model with Intact Annulus Fibrosus to Test Intervertebral Disc Regeneration Strategies. Tissue Engineering - Part C: Methods, 2015, 21, 1117-1124.	2.1	23
89	Defining the phenotype of young healthy nucleus pulposus cells: Recommendations of the Spine Research Interest Group at the 2014 annual ORS meeting. Journal of Orthopaedic Research, 2015, 33, 283-293.	2.3	226
90	Migration of bone marrowâ€"derived cells for endogenous repair in a new tail-looping disc degeneration model in the mouse: a pilot study. Spine Journal, 2015, 15, 1356-1365.	1.3	56

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91	Endogenous Cell Homing for Intervertebral Disk Regeneration. Journal of the American Academy of Orthopaedic Surgeons, The, 2015, 23, 264-266.	2.5	7
92	A combined biomaterial and cellular approach for annulus fibrosus rupture repair. Biomaterials, 2015, 42, 11-19.	11.4	91
93	Advancing the cellular and molecular therapy for intervertebral disc disease. Advanced Drug Delivery Reviews, 2015, 84, 159-171.	13.7	239
94	Potential and Limitations of Intervertebral Disc Endogenous Repair. Current Stem Cell Research and Therapy, 2015, 10, 329-338.	1.3	30
95	Organ Culture Bioreactors â€“ Platforms to Study Human Intervertebral Disc Degeneration and Regenerative Therapy. Current Stem Cell Research and Therapy, 2015, 10, 339-352.	1.3	78
96	Influence of extremely low frequency, low energy electromagnetic fields and combined mechanical stimulation on chondrocytes in 3â€Ð constructs for cartilage tissue engineering. Bioelectromagnetics, 2014, 35, 116-128.	1.6	27
97	Particulate cartilage under bioreactor-induced compression and shear. International Orthopaedics, 2014, 38, 1105-1111.	1.9	33
98	Platelet-rich plasma induces annulus fibrosus cell proliferation and matrix production. European Spine Journal, 2014, 23, 745-753.	2.2	42
99	Stem Cell-Based Intervertebral Disc Regeneration: Evaluation in Organ Culture. Spine Journal, 2014, 14, S62.	1.3	0
100	The effect of hyaluronan-based delivery of stromal cell-derived factor-1 on the recruitment of MSCs in degenerating intervertebral discs. Biomaterials, 2014, 35, 8144-8153.	11.4	78
101	Biodegradable Electrospun Scaffolds for Annulus Fibrosus Tissue Engineering: Effect of Scaffold Structure and Composition on Annulus Fibrosus Cells<i>In Vitro</i>. Tissue Engineering - Part A, 2014, 20, 140123085256009.	3.1	30
102	Biomimetic fibrinâ€“hyaluronan hydrogels for nucleus pulposus regeneration. Regenerative Medicine, 2014, 9, 309-326.	1.7	44
103	Induction of Osteogenic Differentiation by Nanostructured Alumina Surfaces. Journal of Biomedical Nanotechnology, 2014, 10, 831-845.	1.1	17
104	CCL5/RANTES is a key chemoattractant released by degenerative intervertebral discs in organ culture. , 2014, 27, 124-136.		75
105	Cell therapy for intervertebral disc repair: advancing cell therapy from bench to clinics. , 2014, 27s, 5-11.		61
106	Thermoreversible hyaluronan-based hydrogel supports inÂvitro and exÂvivo disc-like differentiation of human mesenchymal stem cells. Spine Journal, 2013, 13, 1627-1639.	1.3	93
107	Bioreactor-Induced Chondrocyte Maturation Is Dependent on Cell Passage and Onset of Loading. Cartilage, 2013, 4, 165-176.	2.7	19
108	Mesenchymal stem cell chondrogenesis: composite growth factorâ€“bioreactor synergism for human stem cell chondrogenesis. Regenerative Medicine, 2013, 8, 157-170.	1.7	10

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109	The Transpedicular Approach As an Alternative Route for Intervertebral Disc Regeneration. Spine, 2013, 38, E319-E324.	2.0	43
110	Isolation and Characterisation of a Recombinant Antibody Fragment That Binds NCAM1-Expressing Intervertebral Disc Cells. PLoS ONE, 2013, 8, e83678.	2.5	9
111	Challenges and strategies in the repair of ruptured annulus fibrosus. , 2013, 25, 1-21.		181
112	Homing of Mesenchymal Stem Cells in Induced Degenerative Intervertebral Discs in a Whole Organ Culture System. Spine, 2012, 37, 1865-1873.	2.0	91
113	Exhaustion of nucleus pulposus progenitor cells with ageing and degeneration of the intervertebral disc. Nature Communications, 2012, 3, 1264.	12.8	357
114	Diversity of intervertebral disc cells: phenotype and function. Journal of Anatomy, 2012, 221, 480-496.	1.5	237
115	Thermoreversible Hyaluronan-Based Hydrogels Support Mesenchymal Stem Cells Disc-Like Differentiation In Vitro and Ex-Vivo. Spine Journal, 2012, 12, S63-S64.	1.3	0
116	Injectable thermoreversible hyaluronan-based hydrogels for nucleus pulposus cell encapsulation. European Spine Journal, 2012, 21, 839-849.	2.2	98
117	Sliding motion modulates stiffness and friction coefficient at the surface of tissue engineered cartilage. Osteoarthritis and Cartilage, 2012, 20, 288-295.	1.3	58
118	Physiological Cartilage Tissue Engineering. International Review of Cell and Molecular Biology, 2011, 289, 37-87.	3.2	13
119	Differential response of human bone marrow stromal cells to either TGF-Î²1 or rhGDF-5. European Spine Journal, 2011, 20, 962-971.	2.2	67
120	An injectable vehicle for nucleus pulposus cell-based therapy. Biomaterials, 2011, 32, 2862-2870.	11.4	203
121	Physical Stimulation of Chondrogenic Cells In Vitro: A Review. Clinical Orthopaedics and Related Research, 2011, 469, 2764-2772.	1.5	147
122	Identification of cell surface-specific markers to target human nucleus pulposus cells: Expression of carbonic anhydrase XII varies with age and degeneration. Arthritis and Rheumatism, 2011, 63, 3876-3886.	6.7	68
123	Varying Regional Topology Within Knee Articular Chondrocytes Under Simulated <i>In Vivo</i> Conditions. Tissue Engineering - Part A, 2011, 17, 451-461.	3.1	22
124	Confocal Imaging Protocols for Live/Dead Staining in Three-Dimensional Carriers. Methods in Molecular Biology, 2011, 740, 127-140.	0.9	21
125	Role of hypoxia and growth and differentiation factor-5 on differentiation of human mesenchymal stem cells towards intervertebral nucleus pulposus-like cells. , 2011, 21, 533-547.		144
126	A combination of shear and dynamic compression leads to mechanically induced chondrogenesis of human mesenchymal stem cells. , 2011, 22, 214-225.		155

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127	The Combined Effects of Limited Nutrition and High-Frequency Loading on Intervertebral Discs With Endplates. Spine, 2010, 35, 1744-1752.	2.0	100
128	Variations in gene and protein expression in human nucleus pulposus in comparison with annulus fibrosus and cartilage cells: potential associations with aging and degeneration. Osteoarthritis and Cartilage, 2010, 18, 416-423.	1.3	147
129	Farsenolâ€modified biodegradable polyurethanes for cartilage tissue engineering. Journal of Biomedical Materials Research - Part A, 2010, 92A, 393-408.	4.0	35
130	Cells and Biomaterials for Intervertebral Disc Regeneration. Synthesis Lectures on Tissue Engineering, 2010, 2, 1-104.	0.3	14
131	Physicobiochemical Synergism Through Gene Therapy and Functional Tissue Engineering for <i>In Vitro</i> Chondrogenesis. Tissue Engineering - Part A, 2009, 15, 2513-2524.	3.1	28
132	The effect of sliding velocity on chondrocytes activity in 3D scaffolds. Journal of Biomechanics, 2009, 42, 424-429.	2.1	23
133	Cells and biomaterials in cartilage tissue engineering. Regenerative Medicine, 2009, 4, 81-98.	1.7	115
134	Differential Phenotype of Intervertebral Disc Cells. Spine, 2009, 34, 1448-1456.	2.0	123
135	Effect of reduced oxygen tension and long-term mechanical stimulation on chondrocyte-polymer constructs. Cell and Tissue Research, 2008, 331, 473-483.	2.9	70
136	An injectable cross-linked scaffold for nucleus pulposus regeneration. Biomaterials, 2008, 29, 438-447.	11.4	131
137	Association of the Asporin D14 Allele with Lumbar-Disc Degeneration in Asians. American Journal of Human Genetics, 2008, 82, 744-747.	6.2	132
138	Different response of articular chondrocyte subpopulations to surface motion. Osteoarthritis and Cartilage, 2007, 15, 1034-1041.	1.3	44
139	A phenotypic comparison of intervertebral disc and articular cartilage cells in the rat. European Spine Journal, 2007, 16, 2174-2185.	2.2	183
140	Effects of Simple and Complex Motion Patterns on Gene Expression of Chondrocytes Seeded in 3D Scaffolds. Tissue Engineering, 2006, 12, 3171-3179.	4.6	81
141	Chondrocyte gene expression under applied surface motion. Biorheology, 2006, 43, 259-69.	0.4	52
142	Effect of mechanical loading on mRNA levels of common endogenous controls in articular chondrocytes and intervertebral disk. Analytical Biochemistry, 2005, 341, 372-375.	2.4	48
143	Surface Motion Upregulates Superficial Zone Protein and Hyaluronan Production in Chondrocyte-Seeded Three-Dimensional Scaffolds. Tissue Engineering, 2005, 11, 249-256.	4.6	133
144	Fibrinâ€"Polyurethane Composites for Articular Cartilage Tissue Engineering: A Preliminary Analysis. Tissue Engineering, 2005, 11, 1562-1573.	4.6	144

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145	Tribology Approach to the Engineering and Study of Articular Cartilage. Tissue Engineering, 2004, 10, 1436-1445.	4.6	98
146	Vascular endothelial growth factor serum level is strongly enhanced after burn injury and correlated with local and general tissue edema. Burns, 2004, 30, 305-311.	1.9	76
147	Tribology Approach to the Engineering and Study of Articular Cartilage. Tissue Engineering, 2004, 10, 1436-1445.	4.6	68
148	Chondrocytes seeded onto poly (L/DL-lactide) 80%/20% porous scaffolds: A biochemical evaluation. Journal of Biomedical Materials Research Part B, 2003, 66A, 571-579.	3.1	63
149	The use of biodegradable polyurethane scaffolds for cartilage tissue engineering: potential and limitations. Biomaterials, 2003, 24, 5163-5171.	11.4	254
150	Effects of Immobilization and Dynamic Compression on Intervertebral Disc Cell Gene Expression In Vivo. Spine, 2003, 28, 973-981.	2.0	135
151	Effects of hypobaric hypoxia on vascular endothelial growth factor and the acute phase response in subjects who are susceptible to high-altitude pulmonary oedema. European Journal of Applied Physiology, 2000, 81, 497-503.	2.5	53