

# Marcel Hbj Karperien

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

220  
papers

11,257  
citations

56  
h-index

98  
g-index

233  
ext. papers

12,426  
ext. citations

6.2  
avg, IF

6.03  
L-index

#	Paper	IF	Citations
220	Joint-on-chip platforms: entering a new era of in vitro models for arthritis.. <i>Nature Reviews Rheumatology</i> , <b>2022</b> ,	8.1	7
219	High Titers of Low Affinity Antibodies in COVID-19 Patients Are Associated With Disease Severity.. <i>Frontiers in Immunology</i> , <b>2022</b> , 13, 867716	8.4	1
218	The Expressions of Dickkopf-Related Protein 1 and Frizzled-Related Protein Are Negatively Correlated to Local Inflammation and Osteoarthritis Severity. <i>Cartilage</i> , <b>2021</b> , 12, 496-504	3	8
217	An ECHO of Cartilage: Prediction of Combinatorial Treatments to Switch Between Transient and Permanent Cartilage Phenotypes With Validation. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 732917	5.8	0
216	Tethering Cells via Enzymatic Oxidative Crosslinking Enables Mechanotransduction in Non-Cell-Adhesive Materials (Adv. Mater. 42/2021). <i>Advanced Materials</i> , <b>2021</b> , 33, 2170333	24	
215	Protein Adsorption Enhances Energy Dissipation in Networks of Lysozyme Amyloid Fibrils. <i>Langmuir</i> , <b>2021</b> , 37, 7349-7355	4	1
214	In vitro degradation profiles and in vivo biomaterial-tissue interactions of microwell array delivery devices. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2021</b> , 109, 117-127	3.5	2
213	High throughput surface plasmon resonance imaging method for clinical detection of presence and strength of binding of IgM, IgG and IgA antibodies against SARS-CoV-2 during CoViD-19 infection. <i>MethodsX</i> , <b>2021</b> , 8, 101432	1.9	2
212	Presence and strength of binding of IgM, IgG and IgA antibodies against SARS-CoV-2 during CoViD-19 infection. <i>Biosensors and Bioelectronics</i> , <b>2021</b> , 183, 113165	11.8	12
211	Tethering Cells via Enzymatic Oxidative Crosslinking Enables Mechanotransduction in Non-Cell-Adhesive Materials. <i>Advanced Materials</i> , <b>2021</b> , 33, e2102660	24	3
210	Engineering Cartilage Tissue by Co-culturing of Chondrocytes and Mesenchymal Stromal Cells. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2221, 53-70	1.4	2
209	A High Cell-Bearing Capacity Multibore Hollow Fiber Device for Macroencapsulation of Islets of Langerhans. <i>Macromolecular Bioscience</i> , <b>2020</b> , 20, e2000021	5.5	4
208	Enzymatic outside-in cross-linking enables single-step microcapsule production for high-throughput three-dimensional cell microaggregate formation. <i>Materials Today Bio</i> , <b>2020</b> , 6, 100047	9.9	6
207	Multivalency Enables Dynamic Supramolecular Host-Guest Hydrogel Formation. <i>Biomacromolecules</i> , <b>2020</b> , 21, 2208-2217	6.9	14
206	Functional expression of ZNF467 and PCBP2 supports adipogenic lineage commitment in adipose-derived mesenchymal stem cells. <i>Gene</i> , <b>2020</b> , 737, 144437	3.8	1
205	Monolithic microfluidic platform for exerting gradients of compression on cell-laden hydrogels, and application to a model of the articular cartilage. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 315, 127917	8.5	9
204	Inhibition of the epigenetic suppressor EZH2 primes osteogenic differentiation mediated by BMP2. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 7877-7893	5.4	27

203	Developing hyaluronic acid microgels for sustained delivery of platelet lysate for tissue engineering applications. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 144, 837-846	7.9	17
202	ECHO, the executable CHondrocyte: A computational model to study articular chondrocytes in health and disease. <i>Cellular Signalling</i> , <b>2020</b> , 68, 109471	4.9	6
201	Rapid and cytocompatible cell-laden silk hydrogel formation riboflavin-mediated crosslinking. <i>Journal of Materials Chemistry B</i> , <b>2020</b> , 8, 9566-9575	7.3	14
200	Autophagy Is Involved in Mesenchymal Stem Cell Death in Coculture with Chondrocytes. <i>Cartilage</i> , <b>2020</b> , 1947603520941227	3	1
199	Spatiotemporal material functionalization via competitive supramolecular complexation of avidin and biotin analogs. <i>Nature Communications</i> , <b>2019</b> , 10, 4347	17.4	11
198	Redox-responsive degradable prodrug nanogels for intracellular drug delivery by crosslinking of amine-functionalized poly(N-vinylpyrrolidone) copolymers. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 540, 612-622	9.3	32
197	Defining the baseline transcriptional fingerprint of rabbit hamstring autograft. <i>Gene Reports</i> , <b>2019</b> , 15, 100363	1.4	4
196	On-the-fly exchangeable microfluidic nozzles for facile production of various monodisperse micromaterials. <i>Lab on A Chip</i> , <b>2019</b> , 19, 1977-1984	7.2	6
195	Mimicking the Articular Joint with In Vitro Models. <i>Trends in Biotechnology</i> , <b>2019</b> , 37, 1063-1077	15.1	20
194	Evaluation of Small Molecule Delivery into Articular Cartilage: Effect of Synovial Clearance and Compressive Load. <i>Assay and Drug Development Technologies</i> , <b>2019</b> , 17, 191-200	2.1	5
193	Changes in Fluorescence Recovery After Photobleaching (FRAP) as an indicator of SOX9 transcription factor activity. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , <b>2019</b> , 1862, 107-117	6	4
192	Microwell Scaffolds Using Collagen-IV and Laminin-111 Lead to Improved Insulin Secretion of Human Islets. <i>Tissue Engineering - Part C: Methods</i> , <b>2019</b> , 25, 71-81	2.9	10
191	An injectable platelet lysate-hyaluronic acid hydrogel supports cellular activities and induces chondrogenesis of encapsulated mesenchymal stem cells. <i>Acta Biomaterialia</i> , <b>2019</b> , 83, 233-244	10.8	58
190	Different response of human chondrocytes from healthy looking areas and damaged regions to IL1 $\beta$ stimulation under different oxygen tension. <i>Journal of Orthopaedic Research</i> , <b>2019</b> , 37, 84-93	3.8	3
189	Single-Cell Microgels: Technology, Challenges, and Applications. <i>Trends in Biotechnology</i> , <b>2018</b> , 36, 850-865	15.1	43
188	In-air microfluidics enables rapid fabrication of emulsions, suspensions, and 3D modular (bio)materials. <i>Science Advances</i> , <b>2018</b> , 4, eaao1175	14.3	87
187	Dickkopf-related protein 1 and gremlin 1 show different response than frizzled-related protein in human synovial fluid following knee injury and in patients with osteoarthritis. <i>Osteoarthritis and Cartilage</i> , <b>2018</b> , 26, 834-843	6.2	8
186	An important step towards a prevascularized islet macroencapsulation device-effect of micropatterned membranes on development of endothelial cell network. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2018</b> , 29, 91	4.5	16

185	Co-treatment of TGF- $\beta$ and BMP7 is superior in stimulating chondrocyte redifferentiation in both hypoxia and normoxia compared to single treatments. <i>Scientific Reports</i> , <b>2018</b> , 8, 10251	4.9	15
184	The Effects of the WNT-Signaling Modulators BIO and PKF118-310 on the Chondrogenic Differentiation of Human Mesenchymal Stem Cells. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	17
183	Hydrolytically Labile Linkers Regulate Release and Activity of Human Bone Morphogenetic Protein-6. <i>Langmuir</i> , <b>2018</b> , 34, 9298-9306	4	2
182	Nanoparticle Enhancement Cascade for Sensitive Multiplex Measurements of Biomarkers in Complex Fluids with Surface Plasmon Resonance Imaging. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 6563-6571	7.8	9
181	Enhancer of zeste homolog 2 () controls bone formation and cell cycle progression during osteogenesis in mice. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 12894-12907	5.4	44
180	Trophic effects of adipose-tissue-derived and bone-marrow-derived mesenchymal stem cells enhance cartilage generation by chondrocytes in co-culture. <i>PLoS ONE</i> , <b>2018</b> , 13, e0190744	3.7	28
179	Promoted Chondrogenesis of Cocultured Chondrocytes and Mesenchymal Stem Cells under Hypoxia Using In-situ Forming Degradable Hydrogel Scaffolds. <i>Biomacromolecules</i> , <b>2018</b> , 19, 94-102	6.9	23
178	An important step towards a prevascularized islet microencapsulation device: in vivo prevascularization by combination of mesenchymal stem cells on micropatterned membranes. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2018</b> , 29, 174	4.5	8
177	Fibronectin and Collagen IV Microcontact Printing Improves Insulin Secretion by INS1E Cells. <i>Tissue Engineering - Part C: Methods</i> , <b>2018</b> , 24, 628-636	2.9	5
176	Loss of histone methyltransferase Ezh2 stimulates an osteogenic transcriptional program in chondrocytes but does not affect cartilage development. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 19004-19011	5.4	28
175	Molecular characterization of physis tissue by RNA sequencing. <i>Gene</i> , <b>2018</b> , 668, 87-96	3.8	10
174	Ultrahigh-Throughput Production of Monodisperse and Multifunctional Janus Microparticles Using in-Air Microfluidics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 23433-23438	9.5	31
173	O-Phenanthroline as modulator of the hypoxic and catabolic response in cartilage tissue-engineering models. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2017</b> , 11, 724-732	4.4	1
172	Trophic Effects of Mesenchymal Stem Cells in Tissue Regeneration. <i>Tissue Engineering - Part B: Reviews</i> , <b>2017</b> , 23, 515-528	7.9	142
171	Nanoemulsion-induced enzymatic crosslinking of tyramine-functionalized polymer droplets. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 4835-4844	7.3	17
170	Centering Single Cells in Microgels via Delayed Crosslinking Supports Long-Term 3D Culture by Preventing Cell Escape. <i>Small</i> , <b>2017</b> , 13, 1603711	11	36
169	Micro-fabricated scaffolds lead to efficient remission of diabetes in mice. <i>Biomaterials</i> , <b>2017</b> , 135, 10-22	15.6	23
168	Single Cell Microgel Based Modular Bioinks for Uncoupled Cellular Micro- and Macroenvironments. <i>Advanced Healthcare Materials</i> , <b>2017</b> , 6, 1600913	10.1	51

167	Pancreatic islet macroencapsulation using microwell porous membranes. <i>Scientific Reports</i> , <b>2017</b> , 7, 9186-9	4.9	31
166	Oxygen-Dependent Lipid Profiles of Three-Dimensional Cultured Human Chondrocytes Revealed by MALDI-MSI. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 9438-9444	7.8	11
165	Arthroscopic Airbrush-Assisted Cell Spraying for Cartilage Repair: Design, Development, and Characterization of Custom-Made Arthroscopic Spray Nozzles. <i>Tissue Engineering - Part C: Methods</i> , <b>2017</b> , 23, 505-515	2.9	6
164	Molecular Validation of Chondrogenic Differentiation and Hypoxia Responsiveness of Platelet-Lysate Expanded Adipose Tissue-Derived Human Mesenchymal Stromal Cells. <i>Cartilage</i> , <b>2017</b> , 8, 283-299	3	22
163	Computational Modeling of Complex Protein Activity Networks <b>2017</b> ,		1
162	Nitric Oxide Mediates Crosstalk between Interleukin 1 $\beta$ and WNT Signaling in Primary Human Chondrocytes by Reducing DKK1 and FRZB Expression. <i>International Journal of Molecular Sciences</i> , <b>2017</b> , 18,	6.3	24
161	Increased cell seeding efficiency in bioplotted three-dimensional PEOT/PBT scaffolds. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2016</b> , 10, 679-89	4.4	30
160	Enzymatic Crosslinking of Polymer Conjugates is Superior over Ionic or UV Crosslinking for the On-Chip Production of Cell-Laden Microgels. <i>Macromolecular Bioscience</i> , <b>2016</b> , 16, 1524-1532	5.5	20
159	Stimuli-responsive poly(N-vinylcaprolactam-co-2-methoxyethyl acrylate) core-shell microgels: facile synthesis, modulation of surface properties and controlled internalisation into cells. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 5127-5137	7.3	28
158	Endogenous DKK1 and FRZB Regulate Chondrogenesis and Hypertrophy in Three-Dimensional Cultures of Human Chondrocytes and Human Mesenchymal Stem Cells. <i>Stem Cells and Development</i> , <b>2016</b> , 25, 1808-1817	4.4	22
157	Dextran <b>2016</b> , 307-319		5
156	Identification and validation of multiple cell surface markers of clinical-grade adipose-derived mesenchymal stromal cells as novel release criteria for good manufacturing practice-compliant production. <i>Stem Cell Research and Therapy</i> , <b>2016</b> , 7, 107	8.3	97
155	A facile approach for thermal and reduction dual-responsive prodrug nanogels for intracellular doxorubicin delivery. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 7572-7583	7.3	25
154	Chondrocytes Cocultured with Stromal Vascular Fraction of Adipose Tissue Present More Intense Chondrogenic Characteristics Than with Adipose Stem Cells. <i>Tissue Engineering - Part A</i> , <b>2016</b> , 22, 336-48 <sup>3.9</sup>	3.9	19
153	Coculturing Human Islets with Proangiogenic Support Cells to Improve Islet Revascularization at the Subcutaneous Transplantation Site. <i>Tissue Engineering - Part A</i> , <b>2016</b> , 22, 375-85	3.9	24
152	Correlation between Gene Expression and Osteoarthritis Progression in Human. <i>International Journal of Molecular Sciences</i> , <b>2016</b> , 17,	6.3	60
151	A Protocol to Enhance INS1E and MIN6 Functionality-The Use of Theophylline. <i>International Journal of Molecular Sciences</i> , <b>2016</b> , 17,	6.3	5
150	Modelling with ANIMO: between fuzzy logic and differential equations. <i>BMC Systems Biology</i> , <b>2016</b> , 10, 56	3.5	18

149	A Microfluidic Device with Continuous Ligand Gradients in Supported Lipid Bilayers to Probe Effects of Ligand Surface Density and Solution Shear Stress on Pathogen Adhesion. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1600055	4.6	7
148	Hybrid Polycaprolactone/Alginate Scaffolds Functionalized with VEGF to Promote de Novo Vessel Formation for the Transplantation of Islets of Langerhans. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 1606-16	10.1	41
147	RNA-seq analysis of clinical-grade osteochondral allografts reveals activation of early response genes. <i>Journal of Orthopaedic Research</i> , <b>2016</b> , 34, 1950-1959	3.8	22
146	The synovial microenvironment of osteoarthritic joints alters RNA-seq expression profiles of human primary articular chondrocytes. <i>Gene</i> , <b>2016</b> , 591, 456-64	3.8	14
145	Opening the "White Box" in Tissue Engineering: Visualization of Cell Aggregates in Optically Scattering Scaffolds. <i>Tissue Engineering - Part C: Methods</i> , <b>2016</b> , 22, 534-42	2.9	1
144	Reactive Copolymers Based on N-Vinyl Lactams with Pyridyl Disulfide Side Groups via RAFT Polymerization and Postmodification via Thiol-Disulfide Exchange Reaction. <i>Macromolecules</i> , <b>2016</b> , 49, 7141-7154	5.5	17
143	Poly(amido amine)-based multilayered thin films on 2D and 3D supports for surface-mediated cell transfection. <i>Journal of Controlled Release</i> , <b>2015</b> , 205, 181-9	11.7	7
142	Optimizing cell viability in droplet-based cell deposition. <i>Scientific Reports</i> , <b>2015</b> , 5, 11304	4.9	72
141	Differentiation of mesenchymal stem cells under hypoxia and normoxia: lipid profiles revealed by time-of-flight secondary ion mass spectrometry and multivariate analysis. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 3981-8	7.8	18
140	An orthotopic mouse model for chondrosarcoma of bone provides an in vivo tool for drug testing. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , <b>2015</b> , 466, 101-9	5.1	8
139	MicroRNA Levels as Prognostic Markers for the Differentiation Potential of Human Mesenchymal Stromal Cell Donors. <i>Stem Cells and Development</i> , <b>2015</b> , 24, 1946-55	4.4	5
138	Kinetically stable metal ligand charge transfer complexes as crosslinks in nanogels/hydrogels: Physical properties and cytotoxicity. <i>Acta Biomaterialia</i> , <b>2015</b> , 26, 136-44	10.8	11
137	Arthroscopic airbrush assisted cell implantation for cartilage repair in the knee: a controlled laboratory and human cadaveric study. <i>Osteoarthritis and Cartilage</i> , <b>2015</b> , 23, 143-50	6.2	13
136	Photoresponsive Materials: Photoresponsive Cucurbit[8]uril-Mediated Adhesion of Bacteria on Supported Lipid Bilayers (Small 46/2015). <i>Small</i> , <b>2015</b> , 11, 6186-6186	11	1
135	Controlled aggregation of primary human pancreatic islet cells leads to glucose-responsive pseudoislets comparable to native islets. <i>Journal of Cellular and Molecular Medicine</i> , <b>2015</b> , 19, 1836-46	5.6	51
134	Supporting data of spatiotemporal proliferation of human stromal cells adjusts to nutrient availability and leads to stanniocalcin-1 expression in vitro and in vivo. <i>Data in Brief</i> , <b>2015</b> , 5, 84-94	1.2	1
133	Photoresponsive Cucurbit[8]uril-Mediated Adhesion of Bacteria on Supported Lipid Bilayers. <i>Small</i> , <b>2015</b> , 11, 6187-96	11	40
132	Supported Lipid Bilayers for the Generation of Dynamic Cell-Material Interfaces. <i>Advanced Healthcare Materials</i> , <b>2015</b> , 4, 2743-79	10.1	51



131	Cartilage Regeneration in the Head and Neck Area: Combination of Ear or Nasal Chondrocytes and Mesenchymal Stem Cells Improves Cartilage Production. <i>Plastic and Reconstructive Surgery</i> , <b>2015</b> , 136, 762e-774e	2.7	24
130	The Regulatory Role of Signaling Crosstalk in Hypertrophy of MSCs and Human Articular Chondrocytes. <i>International Journal of Molecular Sciences</i> , <b>2015</b> , 16, 19225-47	6.3	74
129	Spatiotemporal proliferation of human stromal cells adjusts to nutrient availability and leads to stanniocalcin-1 expression in vitro and in vivo. <i>Biomaterials</i> , <b>2015</b> , 61, 190-202	15.6	9
128	High-Throughput Screening Assay for the Identification of Compounds Enhancing Collagenous Extracellular Matrix Production by ATDC5 Cells. <i>Tissue Engineering - Part C: Methods</i> , <b>2015</b> , 21, 726-36	2.9	9
127	Mesenchymal stromal/stem cell-or chondrocyte-seeded microcarriers as building blocks for cartilage tissue engineering. <i>Tissue Engineering - Part A</i> , <b>2014</b> , 20, 2513-23	3.9	34
126	Engineered micro-objects as scaffolding elements in cellular building blocks for bottom-up tissue engineering approaches. <i>Advanced Materials</i> , <b>2014</b> , 26, 2592-9	24	56
125	On-chip electrophoresis in supported lipid bilayer membranes achieved using low potentials. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 100-3	16.4	19
124	Biological networks 101: computational modeling for molecular biologists. <i>Gene</i> , <b>2014</b> , 533, 379-84	3.8	18
123	Glucose gradients influence zonal matrix deposition in 3D cartilage constructs. <i>Tissue Engineering - Part A</i> , <b>2014</b> , 20, 3270-8	3.9	9
122	Metabolic programming of mesenchymal stromal cells by oxygen tension directs chondrogenic cell fate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 13954-9	11.5	85
121	Copy number variants in patients with short stature. <i>European Journal of Human Genetics</i> , <b>2014</b> , 22, 602-9	3	47
120	Hydrogels by supramolecular crosslinking of terpyridine end group functionalized 8-arm poly(ethylene glycol). <i>Soft Matter</i> , <b>2014</b> , 10, 7328-36	3.6	29
119	A supramolecular host-guest carrier system for growth factors employing V(H)H fragments. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 12675-81	16.4	35
118	Locked-in biomimetic surface gradients that are tunable in size, density and functionalization. <i>ChemPhysChem</i> , <b>2014</b> , 15, 3460-5	3.2	8
117	Identification of novel SHOX target genes in the developing limb using a transgenic mouse model. <i>PLoS ONE</i> , <b>2014</b> , 9, e98543	3.7	13
116	Distinct Effect of TCF4 on the NF $\kappa$ B Pathway in Human Primary Chondrocytes and the C20/A4 Chondrocyte Cell Line. <i>Cartilage</i> , <b>2014</b> , 5, 181-9	3	3
115	Cartilage adhesive and mechanical properties of enzymatically crosslinked polysaccharide tyramine conjugate hydrogels. <i>Polymers for Advanced Technologies</i> , <b>2014</b> , 25, 568-574	3.2	18
114	Boosting angiogenesis and functional vascularization in injectable dextran-hyaluronic acid hydrogels by endothelial-like mesenchymal stromal cells. <i>Tissue Engineering - Part A</i> , <b>2014</b> , 20, 819-29	3.9	13

113	WNT signaling and cartilage: of mice and men. <i>Calcified Tissue International</i> , <b>2013</b> , 92, 399-411	3.9	36
112	Cell sources for articular cartilage repair strategies: shifting from monocultures to cocultures. <i>Tissue Engineering - Part B: Reviews</i> , <b>2013</b> , 19, 31-40	7.9	61
111	GREM1, FRZB and DKK1 mRNA levels correlate with osteoarthritis and are regulated by osteoarthritis-associated factors. <i>Arthritis Research and Therapy</i> , <b>2013</b> , 15, R126	5.7	51
110	A fluorogenic monolayer to detect the co-immobilization of peptides that combine cartilage targeting and regeneration. <i>Journal of Materials Chemistry B</i> , <b>2013</b> , 1, 1903-1908	7.3	16
109	Introducing small cationic groups into 4-armed PLLA-BEG copolymers leads to preferred micellization over thermo-reversible gelation. <i>Polymer</i> , <b>2013</b> , 54, 6894-6901	3.9	7
108	Gene expression profiling of dedifferentiated human articular chondrocytes in monolayer culture. <i>Osteoarthritis and Cartilage</i> , <b>2013</b> , 21, 599-603	6.2	122
107	Fibroblast growth factor-1 is a mesenchymal stromal cell-secreted factor stimulating proliferation of osteoarthritic chondrocytes in co-culture. <i>Stem Cells and Development</i> , <b>2013</b> , 22, 2356-67	4.4	54
106	Regeneration of articular cartilage by adipose tissue derived mesenchymal stem cells: perspectives from stem cell biology and molecular medicine. <i>Journal of Cellular Physiology</i> , <b>2013</b> , 228, 938-44	7	86
105	Label-free Raman monitoring of extracellular matrix formation in three-dimensional polymeric scaffolds. <i>Journal of the Royal Society Interface</i> , <b>2013</b> , 10, 20130464	4.1	33
104	T cell factor 4 is a pro-catabolic and apoptotic factor in human articular chondrocytes by potentiating nuclear factor B signaling. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 17552-8	5.4	47
103	Small molecule inhibitors of WNT/ $\beta$ -catenin signaling block IL-1 $\beta$ and TNF $\alpha$ induced cartilage degradation. <i>Arthritis Research and Therapy</i> , <b>2013</b> , 15, R93	5.7	31
102	Microwell scaffolds for the extrahepatic transplantation of islets of Langerhans. <i>PLoS ONE</i> , <b>2013</b> , 8, e64372	3.7	44
101	Label-free detection of insulin and glucagon within human islets of Langerhans using Raman spectroscopy. <i>PLoS ONE</i> , <b>2013</b> , 8, e78148	3.7	17
100	Nanostructured 3D constructs based on chitosan and chondroitin sulphate multilayers for cartilage tissue engineering. <i>PLoS ONE</i> , <b>2013</b> , 8, e55451	3.7	95
99	Enzyme-catalyzed crosslinkable hydrogels: emerging strategies for tissue engineering. <i>Biomaterials</i> , <b>2012</b> , 33, 1281-90	15.6	373
98	Self-attaching and cell-attracting in-situ forming dextran-tyramine conjugates hydrogels for arthroscopic cartilage repair. <i>Biomaterials</i> , <b>2012</b> , 33, 3164-74	15.6	70
97	The effect of platelet lysate supplementation of a dextran-based hydrogel on cartilage formation. <i>Biomaterials</i> , <b>2012</b> , 33, 3651-61	15.6	64
96	Wettability influences cell behavior on superhydrophobic surfaces with different topographies. <i>Biointerphases</i> , <b>2012</b> , 7, 46	1.8	84



95	Gremlin 1, frizzled-related protein, and Dkk-1 are key regulators of human articular cartilage homeostasis. <i>Arthritis and Rheumatism</i> , <b>2012</b> , 64, 3302-12		101
94	Trophic effects of mesenchymal stem cells in chondrocyte co-cultures are independent of culture conditions and cell sources. <i>Tissue Engineering - Part A</i> , <b>2012</b> , 18, 1542-51	3.9	158
93	Sotos syndrome is associated with deregulation of the MAPK/ERK-signaling pathway. <i>PLoS ONE</i> , <b>2012</b> , 7, e49229	3.7	20
92	Hypoxia inhibits hypertrophic differentiation and endochondral ossification in explanted tibiae. <i>PLoS ONE</i> , <b>2012</b> , 7, e49896	3.7	33
91	A Wnt/ $\beta$ -catenin negative feedback loop inhibits interleukin-1-induced matrix metalloproteinase expression in human articular chondrocytes. <i>Arthritis and Rheumatism</i> , <b>2012</b> , 64, 2589-600		70
90	Recognizing different tissues in human fetal femur cartilage by label-free Raman microspectroscopy. <i>Journal of Biomedical Optics</i> , <b>2012</b> , 17, 116012	3.5	34
89	Patterns of amino acid metabolism by proliferating human mesenchymal stem cells. <i>Tissue Engineering - Part A</i> , <b>2012</b> , 18, 654-64	3.9	32
88	Fetal mesenchymal stromal cells differentiating towards chondrocytes acquire a gene expression profile resembling human growth plate cartilage. <i>PLoS ONE</i> , <b>2012</b> , 7, e44561	3.7	13
87	High throughput generated micro-aggregates of chondrocytes stimulate cartilage formation in vitro and in vivo. <i>European Cells and Materials</i> , <b>2012</b> , 23, 387-99	4.3	70
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