

Marcel Hbj Karperien

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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	PTH/PTHrP receptor in early development and Indian hedgehog-regulated bone growth. <i>Science</i> , 1996 , 273, 663-6	33.3	1118
219	Sclerostin is an osteocyte-expressed negative regulator of bone formation, but not a classical BMP antagonist. <i>Journal of Experimental Medicine</i> , 2004 , 199, 805-14	16.6	691
218	Injectable chitosan-based hydrogels for cartilage tissue engineering. <i>Biomaterials</i> , 2009 , 30, 2544-51	15.6	377
217	Enzyme-catalyzed crosslinkable hydrogels: emerging strategies for tissue engineering. <i>Biomaterials</i> , 2012 , 33, 1281-90	15.6	373
216	Homozygous and heterozygous expression of a novel insulin-like growth factor-I mutation. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2005 , 90, 2855-64	5.6	253
215	Synthesis and characterization of hyaluronic acid-poly(ethylene glycol) hydrogels via Michael addition: An injectable biomaterial for cartilage repair. <i>Acta Biomaterialia</i> , 2010 , 6, 1968-77	10.8	236
214	Enzymatically-crosslinked injectable hydrogels based on biomimetic dextran-hyaluronic acid conjugates for cartilage tissue engineering. <i>Biomaterials</i> , 2010 , 31, 3103-13	15.6	228
213	Trophic effects of mesenchymal stem cells increase chondrocyte proliferation and matrix formation. <i>Tissue Engineering - Part A</i> , 2011 , 17, 1425-36	3.9	212
212	Wnt but not BMP signaling is involved in the inhibitory action of sclerostin on BMP-stimulated bone formation. <i>Journal of Bone and Mineral Research</i> , 2007 , 22, 19-28	6.3	202
211	Optical imaging of cancer metastasis to bone marrow: a mouse model of minimal residual disease. <i>American Journal of Pathology</i> , 2002 , 160, 1143-53	5.8	195
210	Chitosan/poly(epsilon-caprolactone) blend scaffolds for cartilage repair. <i>Biomaterials</i> , 2011 , 32, 1068-79	15.6	182
209	Trophic effects of mesenchymal stem cells in chondrocyte co-cultures are independent of culture conditions and cell sources. <i>Tissue Engineering - Part A</i> , 2012 , 18, 1542-51	3.9	158
208	Exposure of KS483 cells to estrogen enhances osteogenesis and inhibits adipogenesis. <i>Journal of Bone and Mineral Research</i> , 2002 , 17, 394-405	6.3	149
207	Trophic Effects of Mesenchymal Stem Cells in Tissue Regeneration. <i>Tissue Engineering - Part B: Reviews</i> , 2017 , 23, 515-528	7.9	142
206	Downregulation of Wnt signaling by increased expression of Dickkopf-1 and -2 is a prerequisite for late-stage osteoblast differentiation of KS483 cells. <i>Journal of Bone and Mineral Research</i> , 2005 , 20, 1867-77	6.3	128
205	Gene expression profiling of dedifferentiated human articular chondrocytes in monolayer culture. <i>Osteoarthritis and Cartilage</i> , 2013 , 21, 599-603	6.2	122
204	A variable degree of intrauterine and postnatal growth retardation in a family with a missense mutation in the insulin-like growth factor I receptor. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2006 , 91, 3062-70	5.6	121

203	Expression of Indian hedgehog, parathyroid hormone-related protein, and their receptors in the postnatal growth plate of the rat: evidence for a locally acting growth restraining feedback loop after birth. <i>Journal of Bone and Mineral Research</i> , 2000 , 15, 1045-55	6.3	117
202	Chondrogenesis in injectable enzymatically crosslinked heparin/dextran hydrogels. <i>Journal of Controlled Release</i> , 2011 , 152, 186-95	11.7	111
201	Tissue assembly and organization: developmental mechanisms in microfabricated tissues. <i>Biomaterials</i> , 2009 , 30, 4851-8	15.6	107
200	Gremlin 1, frizzled-related protein, and Dkk-1 are key regulators of human articular cartilage homeostasis. <i>Arthritis and Rheumatism</i> , 2012 , 64, 3302-12		101
199	Enzymatically crosslinked dextran-tyramine hydrogels as injectable scaffolds for cartilage tissue engineering. <i>Tissue Engineering - Part A</i> , 2010 , 16, 2429-40	3.9	101
198	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> , 2016 , 7, 107	8.3	97
197	Nanostructured 3D constructs based on chitosan and chondroitin sulphate multilayers for cartilage tissue engineering. <i>PLoS ONE</i> , 2013 , 8, e55451	3.7	95
196	Human mesenchymal stem cells derived from bone marrow display a better chondrogenic differentiation compared with other sources. <i>Connective Tissue Research</i> , 2007 , 48, 132-40	3.3	89
195	Urokinase-receptor/integrin complexes are functionally involved in adhesion and progression of human breast cancer in vivo. <i>American Journal of Pathology</i> , 2001 , 159, 971-82	5.8	89
194	Parathyroid hormone-related peptide as an endogenous inducer of parietal endoderm differentiation. <i>Journal of Cell Biology</i> , 1993 , 120, 235-43	7.3	89
193	Familial Paget disease in The Netherlands: occurrence, identification of new mutations in the sequestosome 1 gene, and their clinical associations. <i>Arthritis and Rheumatism</i> , 2004 , 50, 1650-4		88
192	In-air microfluidics enables rapid fabrication of emulsions, suspensions, and 3D modular (bio)materials. <i>Science Advances</i> , 2018 , 4, eaao1175	14.3	87
191	Activation of junB by PKC and PKA signal transduction through a novel cis-acting element. <i>Nucleic Acids Research</i> , 1991 , 19, 775-81	20.1	87
190	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> , 2013 , 228, 938-44	7	86
189	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> , 2014 , 111, 13954-9	11.5	85
188	Wettability influences cell behavior on superhydrophobic surfaces with different topographies. <i>Biointerphases</i> , 2012 , 7, 46	1.8	84
187	The short stature homeodomain protein SHOX induces cellular growth arrest and apoptosis and is expressed in human growth plate chondrocytes. <i>Journal of Biological Chemistry</i> , 2004 , 279, 37103-14	5.4	77
186	Hedgehog stimulates only osteoblastic differentiation of undifferentiated KS483 cells. <i>Bone</i> , 2003 , 33, 899-910	4.7	77

185	A frame-shift mutation in the type I parathyroid hormone (PTH)/PTH-related peptide receptor causing Blomstrand lethal osteochondrodysplasia. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1999 , 84, 3713-20	5.6	76
184	Normalization of serum calcium by cinacalcet in a patient with hypercalcaemia due to a de novo inactivating mutation of the calcium-sensing receptor. <i>Journal of Internal Medicine</i> , 2006 , 260, 177-82	10.8	75
183	The Regulatory Role of Signaling Crosstalk in Hypertrophy of MSCs and Human Articular Chondrocytes. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 19225-47	6.3	74
182	Expression pattern of parathyroid hormone/parathyroid hormone related peptide receptor mRNA in mouse postimplantation embryos indicates involvement in multiple developmental processes. <i>Mechanisms of Development</i> , 1994 , 47, 29-42	1.7	73
181	Optimizing cell viability in droplet-based cell deposition. <i>Scientific Reports</i> , 2015 , 5, 11304	4.9	72
180	Self-attaching and cell-attracting in-situ forming dextran-tyramine conjugates hydrogels for arthroscopic cartilage repair. <i>Biomaterials</i> , 2012 , 33, 3164-74	15.6	70
179	A Wnt/ β -catenin negative feedback loop inhibits interleukin-1-induced matrix metalloproteinase expression in human articular chondrocytes. <i>Arthritis and Rheumatism</i> , 2012 , 64, 2589-600		70
178	Clinical and biochemical characteristics of a male patient with a novel homozygous STAT5b mutation. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2006 , 91, 3482-5	5.6	70
177	High throughput generated micro-aggregates of chondrocytes stimulate cartilage formation in vitro and in vivo. <i>European Cells and Materials</i> , 2012 , 23, 387-99	4.3	70
176	Differentiation of murine preosteoblastic KS483 cells depends on autocrine bone morphogenetic protein signaling during all phases of osteoblast formation. <i>Bone</i> , 2002 , 31, 661-9	4.7	66
175	The rat, mouse and human genes encoding the receptor for parathyroid hormone and parathyroid hormone-related peptide are highly homologous. <i>Biochemical and Biophysical Research Communications</i> , 1994 , 200, 1290-9	3.4	66
174	The effect of platelet lysate supplementation of a dextran-based hydrogel on cartilage formation. <i>Biomaterials</i> , 2012 , 33, 3651-61	15.6	64
173	Successful long-term growth hormone therapy in a girl with haploinsufficiency of the insulin-like growth factor-I receptor due to a terminal 15q26.2->qter deletion detected by multiplex ligation probe amplification. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2008 , 93, 2421-5	5.6	64
172	Cell sources for articular cartilage repair strategies: shifting from monocultures to cocultures. <i>Tissue Engineering - Part B: Reviews</i> , 2013 , 19, 31-40	7.9	61
171	Mechanisms of growth plate maturation and epiphyseal fusion. <i>Hormone Research in Paediatrics</i> , 2011 , 75, 383-91	3.3	61
170	Structural and functional characteristics of the Val44Met insulin-like growth factor I missense mutation: correlation with effects on growth and development. <i>Molecular Endocrinology</i> , 2005 , 19, 711-21		60
169	Correlation between Gene Expression and Osteoarthritis Progression in Human. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	60
168	No haploinsufficiency but loss of heterozygosity for EXT in multiple osteochondromas. <i>American Journal of Pathology</i> , 2010 , 177, 1946-57	5.8	59

167	Recombinant human extracellular matrix protein 1 inhibits alkaline phosphatase activity and mineralization of mouse embryonic metatarsals in vitro. <i>Bone</i> , 2001 , 28, 14-20	4.7	59
166	An injectable platelet lysate-hyaluronic acid hydrogel supports cellular activities and induces chondrogenesis of encapsulated mesenchymal stem cells. <i>Acta Biomaterialia</i> , 2019 , 83, 233-244	10.8	58
165	Engineered micro-objects as scaffolding elements in cellular building blocks for bottom-up tissue engineering approaches. <i>Advanced Materials</i> , 2014 , 26, 2592-9	24	56
164	Differentiation-dependent alternative splicing and expression of the extracellular matrix protein 1 gene in human keratinocytes. <i>Journal of Investigative Dermatology</i> , 2000 , 114, 718-24	4.3	55
163	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> , 2013 , 22, 2356-67	4.4	54
162	BNP is a transcriptional target of the short stature homeobox gene SHOX. <i>Human Molecular Genetics</i> , 2007 , 16, 3081-7	5.6	52
161	Single Cell Microgel Based Modular Bioinks for Uncoupled Cellular Micro- and Macroenvironments. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1600913	10.1	51
160	GREM1, FRZB and DKK1 mRNA levels correlate with osteoarthritis and are regulated by osteoarthritis-associated factors. <i>Arthritis Research and Therapy</i> , 2013 , 15, R126	5.7	51
159	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> , 2015 , 19, 1836-46	5.6	51
158	Supported Lipid Bilayers for the Generation of Dynamic Cell-Material Interfaces. <i>Advanced Healthcare Materials</i> , 2015 , 4, 2743-79	10.1	51
157	Iodide kinetics and experimental (131)I therapy in a xenotransplanted human sodium-iodide symporter-transfected human follicular thyroid carcinoma cell line. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2002 , 87, 1247-53	5.6	51
156	Estrogen signaling is active in cartilaginous tumors: implications for antiestrogen therapy as treatment option of metastasized or irresectable chondrosarcoma. <i>Clinical Cancer Research</i> , 2005 , 11, 8028-35	12.9	50
155	Inhibition of Gsk3 β in cartilage induces osteoarthritic features through activation of the canonical Wnt signaling pathway. <i>Osteoarthritis and Cartilage</i> , 2011 , 19, 1363-72	6.2	49
154	The majority of the genetic risk for Paget's disease of bone is explained by genetic variants close to the CSF1, OPTN, TM7SF4, and TNFRSF11A genes. <i>Human Genetics</i> , 2010 , 128, 615-26	6.3	49
153	Homozygous and heterozygous expression of a novel mutation of the acid-labile subunit. <i>European Journal of Endocrinology</i> , 2008 , 159, 113-20	6.5	49
152	Gender differences in expression of androgen receptor in tibial growth plate and metaphyseal bone of the rat. <i>Bone</i> , 2002 , 30, 891-6	4.7	48
151	Reestablishment of in vitro and in vivo iodide uptake by transfection of the human sodium iodide symporter (hNIS) in a hNIS defective human thyroid carcinoma cell line. <i>Thyroid</i> , 2000 , 10, 939-43	6.2	48
150	Copy number variants in patients with short stature. <i>European Journal of Human Genetics</i> , 2014 , 22, 602-9.3	9.3	47

149	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> , 2013 , 288, 17552-8	5.4	47
148	Localization and regulation of the growth hormone receptor and growth hormone-binding protein in the rat growth plate. <i>Journal of Bone and Mineral Research</i> , 2002 , 17, 1408-19	6.3	47
147	Novel mutations in the parathyroid hormone (PTH)/PTH-related peptide receptor type 1 causing Blomstrand osteochondrodysplasia types I and II. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2007 , 92, 1088-95	5.6	45
146	Enhancer of zeste homolog 2 () controls bone formation and cell cycle progression during osteogenesis in mice. <i>Journal of Biological Chemistry</i> , 2018 , 293, 12894-12907	5.4	44
145	Microwell scaffolds for the extrahepatic transplantation of islets of Langerhans. <i>PLoS ONE</i> , 2013 , 8, e64372	3.7	44
144	Inhibition of terminal chondrocyte differentiation by bone morphogenetic protein 7 (OP-1) in vitro depends on the periarticular region but is independent of parathyroid hormone-related peptide. <i>Bone</i> , 1999 , 25, 397-404	4.7	44
143	Single-Cell Microgels: Technology, Challenges, and Applications. <i>Trends in Biotechnology</i> , 2018 , 36, 850-865	5.1	43
142	Short stature associated with a novel heterozygous mutation in the insulin-like growth factor 1 gene. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2010 , 95, E363-7	5.6	43
141	Lithium as adjuvant to radioiodine therapy in differentiated thyroid carcinoma: clinical and in vitro studies. <i>Clinical Endocrinology</i> , 2006 , 64, 617-24	3.4	43
140	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> , 2016 , 5, 1606-16	10.1	41
139	Photoresponsive Cucurbit[8]uril-Mediated Adhesion of Bacteria on Supported Lipid Bilayers. <i>Small</i> , 2015 , 11, 6187-96	11	40
138	Expression of estrogen receptor alpha and beta in the epiphyseal plate of the rat. <i>Bone</i> , 2002 , 30, 478-85	4.7	40
137	Expression of estrogen receptors and enzymes involved in sex steroid metabolism in the rat tibia during sexual maturation. <i>Journal of Endocrinology</i> , 2004 , 180, 457-67	4.7	39
136	Centering Single Cells in Microgels via Delayed Crosslinking Supports Long-Term 3D Culture by Preventing Cell Escape. <i>Small</i> , 2017 , 13, 1603711	11	36
135	WNT signaling and cartilage: of mice and men. <i>Calcified Tissue International</i> , 2013 , 92, 399-411	3.9	36
134	Genetic variation in the TNFRSF11A gene encoding RANK is associated with susceptibility to Paget disease of bone. <i>Journal of Bone and Mineral Research</i> , 2010 , 25, 2592-605	6.3	36
133	A supramolecular host-guest carrier system for growth factors employing V(H)H fragments. <i>Journal of the American Chemical Society</i> , 2014 , 136, 12675-81	16.4	35
132	Mesenchymal stromal/stem cell-or chondrocyte-seeded microcarriers as building blocks for cartilage tissue engineering. <i>Tissue Engineering - Part A</i> , 2014 , 20, 2513-23	3.9	34

131	Cartilage tissue engineering. <i>Endocrine Development</i> , 2011 , 21, 102-115		34
130	Recognizing different tissues in human fetal femur cartilage by label-free Raman microspectroscopy. <i>Journal of Biomedical Optics</i> , 2012 , 17, 116012	3.5	34
129	Founder effect in different European countries for the recurrent P392L SQSTM1 mutation in Paget's Disease of Bone. <i>Calcified Tissue International</i> , 2008 , 83, 34-42	3.9	34
128	Hypoxia inhibits hypertrophic differentiation and endochondral ossification in explanted tibiae. <i>PLoS ONE</i> , 2012 , 7, e49896	3.7	33
127	Label-free Raman monitoring of extracellular matrix formation in three-dimensional polymeric scaffolds. <i>Journal of the Royal Society Interface</i> , 2013 , 10, 20130464	4.1	33
126	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> , 2019 , 540, 612-622	9.3	32
125	Primary chondrocytes enhance cartilage tissue formation upon co-culture with a range of cell types. <i>Soft Matter</i> , 2010 , 6, 5080	3.6	32
124	Patterns of amino acid metabolism by proliferating human mesenchymal stem cells. <i>Tissue Engineering - Part A</i> , 2012 , 18, 654-64	3.9	32
123	Pancreatic islet macroencapsulation using microwell porous membranes. <i>Scientific Reports</i> , 2017 , 7, 91864.9	4.9	31
122	Small molecule inhibitors of WNT/ β -catenin signaling block IL-1 β and TNF α induced cartilage degradation. <i>Arthritis Research and Therapy</i> , 2013 , 15, R93	5.7	31
121	Ultrahigh-Throughput Production of Monodisperse and Multifunctional Janus Microparticles Using in-Air Microfluidics. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 23433-23438	9.5	31
120	Increased cell seeding efficiency in bioplotting three-dimensional PEOT/PBT scaffolds. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016 , 10, 679-89	4.4	30
119	Hydrogels by supramolecular crosslinking of terpyridine end group functionalized 8-arm poly(ethylene glycol). <i>Soft Matter</i> , 2014 , 10, 7328-36	3.6	29
118	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> , 2016 , 4, 5127-5137	7.3	28
117	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> , 2018 , 13, e0190744	3.7	28
116	Evidence for genomic and nongenomic actions of estrogen in growth plate regulation in female and male rats at the onset of sexual maturation. <i>Journal of Endocrinology</i> , 2002 , 175, 277-88	4.7	28
115	Loss of histone methyltransferase Ezh2 stimulates an osteogenic transcriptional program in chondrocytes but does not affect cartilage development. <i>Journal of Biological Chemistry</i> , 2018 , 293, 19001-19011	5.4	28
114	Inhibition of the epigenetic suppressor EZH2 primes osteogenic differentiation mediated by BMP2. <i>Journal of Biological Chemistry</i> , 2020 , 295, 7877-7893	5.4	27

113	Multiple mechanisms are involved in inhibition of osteoblast differentiation by PTHrP and PTH in KS483 Cells. <i>Journal of Bone and Mineral Research</i> , 2005 , 20, 2233-44	6.3	27
112	A facile approach for thermal and reduction dual-responsive prodrug nanogels for intracellular doxorubicin delivery. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 7572-7583	7.3	25
111	Genotype-phenotype correlation in patients suspected of having Sotos syndrome. <i>Hormone Research in Paediatrics</i> , 2004 , 62, 197-207	3.3	25
110	Coculturing Human Islets with Proangiogenic Support Cells to Improve Islet Revascularization at the Subcutaneous Transplantation Site. <i>Tissue Engineering - Part A</i> , 2016 , 22, 375-85	3.9	24
109	Nitric Oxide Mediates Crosstalk between Interleukin 1 β and WNT Signaling in Primary Human Chondrocytes by Reducing DKK1 and FRZB Expression. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	24
108	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> , 2015 , 136, 762e-774e	2.7	24
107	Growth hormone secretion and immunological function of a male patient with a homozygous STAT5b mutation. <i>European Journal of Endocrinology</i> , 2007 , 156, 155-65	6.5	24
106	Micro-fabricated scaffolds lead to efficient remission of diabetes in mice. <i>Biomaterials</i> , 2017 , 135, 10-22	15.6	23
105	Expression of the parathyroid hormone-related peptide gene in retinoic acid-induced differentiation: involvement of ETS and Sp1. <i>Molecular Endocrinology</i> , 1997 , 11, 1435-48		23
104	Promoted Chondrogenesis of Cocultured Chondrocytes and Mesenchymal Stem Cells under Hypoxia Using In-situ Forming Degradable Hydrogel Scaffolds. <i>Biomacromolecules</i> , 2018 , 19, 94-102	6.9	23
103	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> , 2016 , 25, 1808-1817	4.4	22
102	Molecular Validation of Chondrogenic Differentiation and Hypoxia Responsiveness of Platelet-Lysate Expanded Adipose Tissue-Derived Human Mesenchymal Stromal Cells. <i>Cartilage</i> , 2017 , 8, 283-299	3	22
101	RNA-seq analysis of clinical-grade osteochondral allografts reveals activation of early response genes. <i>Journal of Orthopaedic Research</i> , 2016 , 34, 1950-1959	3.8	22
100	Injectable Hydrogels by Enzymatic Co-Crosslinking of Dextran and Hyaluronic Acid Tyramine Conjugates. <i>Macromolecular Symposia</i> , 2011 , 309-310, 213-221	0.8	21
99	Mimicking the Articular Joint with In Vitro Models. <i>Trends in Biotechnology</i> , 2019 , 37, 1063-1077	15.1	20
98	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> , 2016 , 16, 1524-1532	5.5	20
97	Sotos syndrome is associated with deregulation of the MAPK/ERK-signaling pathway. <i>PLoS ONE</i> , 2012 , 7, e49229	3.7	20
96	Whole-body bioluminescent imaging of human uveal melanoma in a new mouse model of local tumor growth and metastasis. <i>Investigative Ophthalmology and Visual Science</i> , 2005 , 46, 1581-7		20

95	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> , 2016 , 22, 336-48 ^{3,9}	19
94	On-chip electrophoresis in supported lipid bilayer membranes achieved using low potentials. <i>Journal of the American Chemical Society</i> , 2014 , 136, 100-3	16.4 19
93	Genome-wide SNP array analysis in patients with features of sotos syndrome. <i>Hormone Research in Paediatrics</i> , 2010 , 73, 265-74	3.3 19
92	Parathyroid hormone-related peptide (PTHrP) induces parietal endoderm formation exclusively via the type I PTH/PTHrP receptor. <i>Mechanisms of Development</i> , 1999 , 81, 151-61	1.7 19
91	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> , 2015 , 87, 3981-8	7.8 18
90	Biological networks 101: computational modeling for molecular biologists. <i>Gene</i> , 2014 , 533, 379-84	3.8 18
89	Cartilage adhesive and mechanical properties of enzymatically crosslinked polysaccharide tyramine conjugate hydrogels. <i>Polymers for Advanced Technologies</i> , 2014 , 25, 568-574	3.2 18
88	Modelling with ANIMO: between fuzzy logic and differential equations. <i>BMC Systems Biology</i> , 2016 , 10, 56	3.5 18
87	Nanoemulsion-induced enzymatic crosslinking of tyramine-functionalized polymer droplets. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 4835-4844	7.3 17
86	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> , 2018 , 19,	6.3 17
85	Label-free detection of insulin and glucagon within human islets of Langerhans using Raman spectroscopy. <i>PLoS ONE</i> , 2013 , 8, e78148	3.7 17
84	Developing hyaluronic acid microgels for sustained delivery of platelet lysate for tissue engineering applications. <i>International Journal of Biological Macromolecules</i> , 2020 , 144, 837-846	7.9 17
83	Reactive Copolymers Based on N-Vinyl Lactams with Pyridyl Disulfide Side Groups via RAFT Polymerization and Postmodification via ThiolDisulfide Exchange Reaction. <i>Macromolecules</i> , 2016 , 49, 7141-7154	5.5 17
82	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> , 2018 , 29, 91	4.5 16
81	A fluorogenic monolayer to detect the co-immobilization of peptides that combine cartilage targeting and regeneration. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 1903-1908	7.3 16
80	APC mutations are associated with increased bone mineral density in patients with familial adenomatous polyposis. <i>Journal of Bone and Mineral Research</i> , 2010 , 25, 2624-32	6.3 16
79	Co-treatment of TGF- β and BMP7 is superior in stimulating chondrocyte redifferentiation in both hypoxia and normoxia compared to single treatments. <i>Scientific Reports</i> , 2018 , 8, 10251	4.9 15
78	Expression of vascular endothelial growth factor in the growth plate is stimulated by estradiol and increases during pubertal development. <i>Journal of Endocrinology</i> , 2010 , 205, 61-8	4.7 15

77	Epiphyseal fusion in the human growth plate does not involve classical apoptosis. <i>Pediatric Research</i> , 2009 , 66, 654-9	3.2	15
76	Independent pathways in the modulation of osteoclastic resorption by intermediates of the mevalonate biosynthetic pathway: the role of the retinoic acid receptor. <i>Bone</i> , 2006 , 38, 167-71	4.7	15
75	Mutations in the NSD1 gene in patients with Sotos syndrome associate with endocrine and paracrine alterations in the IGF system. <i>European Journal of Endocrinology</i> , 2004 , 151, 333-41	6.5	15
74	Multivalency Enables Dynamic Supramolecular Host-Guest Hydrogel Formation. <i>Biomacromolecules</i> , 2020 , 21, 2208-2217	6.9	14
73	Expression of the human sodium/iodide symporter (hNIS) in xenotransplanted human thyroid carcinoma. <i>Experimental and Clinical Endocrinology and Diabetes</i> , 2001 , 109, 52-5	2.3	14
72	Identification of a retinoic acid-inducible element in the murine PTH/PTHrP (parathyroid hormone/parathyroid hormone-related peptide) receptor gene. <i>Molecular Endocrinology</i> , 1999 , 13, 1183-96		14
71	Rapid and cytocompatible cell-laden silk hydrogel formation riboflavin-mediated crosslinking. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 9566-9575	7.3	14
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