

Jenneke Klein-Nulend

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140
papers

7,599
citations

48
h-index

85
g-index

149
ext. papers

8,508
ext. citations

4.5
avg, IF

5.97
L-index

#	Paper	IF	Citations
140	Mechanotransduction in bone: Role of the lacunocanalicular network. <i>FASEB Journal</i> , 1999 , 13, S101	0.9	637
139	Sensitivity of osteocytes to biomechanical stress in vitro. <i>FASEB Journal</i> , 1995 , 9, 441-5	0.9	631
138	Mechanosensation and transduction in osteocytes. <i>Bone</i> , 2013 , 54, 182-90	4.7	307
137	The production of nitric oxide and prostaglandin E(2) by primary bone cells is shear stress dependent. <i>Journal of Biomechanics</i> , 2001 , 34, 671-7	2.9	247
136	Pulsating fluid flow stimulates prostaglandin release and inducible prostaglandin G/H synthase mRNA expression in primary mouse bone cells. <i>Journal of Bone and Mineral Research</i> , 1997 , 12, 45-51	6.3	224
135	Mechanical loading and how it affects bone cells: the role of the osteocyte cytoskeleton in maintaining our skeleton. <i>European Cells and Materials</i> , 2012 , 24, 278-91	4.3	193
134	Strain-derived canalicular fluid flow regulates osteoclast activity in a remodelling osteon—a proposal. <i>Journal of Biomechanics</i> , 2003 , 36, 1453-9	2.9	185
133	Adipose tissue-derived mesenchymal stem cells acquire bone cell-like responsiveness to fluid shear stress on osteogenic stimulation. <i>Tissue Engineering</i> , 2005 , 11, 1780-8		172
132	Osteocyte morphology in fibula and calvaria --- is there a role for mechanosensing?. <i>Bone</i> , 2008 , 43, 452-8.	4.7	169
131	Stem cells from adipose tissue allow challenging new concepts for regenerative medicine. <i>Tissue Engineering</i> , 2007 , 13, 1799-808		154
130	Nitric oxide production by bone cells is fluid shear stress rate dependent. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 315, 823-9	3.4	141
129	PLS3 mutations in X-linked osteoporosis with fractures. <i>New England Journal of Medicine</i> , 2013 , 369, 1529-36	59.2	140
128	Osteocytes subjected to fluid flow inhibit osteoclast formation and bone resorption. <i>Bone</i> , 2007 , 41, 745-51	4.7	139
127	Dynamic shear stress in parallel-plate flow chambers. <i>Journal of Biomechanics</i> , 2005 , 38, 159-67	2.9	136
126	Shear stress inhibits while disuse promotes osteocyte apoptosis. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 320, 1163-8	3.4	132
125	A comparison of strain and fluid shear stress in stimulating bone cell responses—a computational and experimental study. <i>FASEB Journal</i> , 2005 , 19, 482-4	0.9	129
124	The effect of cytoskeletal disruption on pulsatile fluid flow-induced nitric oxide and prostaglandin E2 release in osteocytes and osteoblasts. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 330, 341-8	3.4	117

123	Osteocyte morphology in human tibiae of different bone pathologies with different bone mineral density--is there a role for mechanosensing?. <i>Bone</i> , 2009 , 45, 321-9	4.7	114
122	Mechanical stimulation by intermittent hydrostatic compression promotes bone-specific gene expression in vitro. <i>Journal of Biomechanics</i> , 1995 , 28, 1493-503	2.9	114
121	Osteocytes subjected to pulsating fluid flow regulate osteoblast proliferation and differentiation. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 348, 1082-8	3.4	113
120	Round versus flat: bone cell morphology, elasticity, and mechanosensing. <i>Journal of Biomechanics</i> , 2008 , 41, 1590-8	2.9	110
119	Aging, Osteocytes, and Mechanotransduction. <i>Current Osteoporosis Reports</i> , 2017 , 15, 401-411	5.4	106
118	Bone cell responses to high-frequency vibration stress: does the nucleus oscillate within the cytoplasm?. <i>FASEB Journal</i> , 2006 , 20, 858-64	0.9	103
117	Mechanical stimulation of osteopontin mRNA expression and synthesis in bone cell cultures. <i>Journal of Cellular Physiology</i> , 1997 , 170, 174-81	7	94
116	Function of osteocytes in bone--their role in mechanotransduction. <i>Journal of Nutrition</i> , 1995 , 125, 2020S-2023S	5.2	92
115	Mechanical loading stimulates the release of transforming growth factor-beta activity by cultured mouse calvariae and periosteal cells. <i>Journal of Cellular Physiology</i> , 1995 , 163, 115-9	7	90
114	Early activation of the beta-catenin pathway in osteocytes is mediated by nitric oxide, phosphatidylinositol-3 kinase/Akt, and focal adhesion kinase. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 391, 364-9	3.4	87
113	Bone cell mechanosensitivity, estrogen deficiency, and osteoporosis. <i>Journal of Biomechanics</i> , 2015 , 48, 855-65	2.9	86
112	Pulsating fluid flow modulates gene expression of proteins involved in Wnt signaling pathways in osteocytes. <i>Journal of Orthopaedic Research</i> , 2009 , 27, 1280-7	3.8	82
111	Low-intensity pulsed ultrasound increases bone volume, osteoid thickness and mineral apposition rate in the area of fracture healing in patients with a delayed union of the osteotomized fibula. <i>Bone</i> , 2008 , 43, 348-354	4.7	78
110	Cellulose and its derivatives: towards biomedical applications. <i>Cellulose</i> , 2021 , 28, 1893-1931	5.5	77
109	Osteocyte and bone structure. <i>Current Osteoporosis Reports</i> , 2003 , 1, 5-10	5.4	75
108	Buccal fat pad, an oral access source of human adipose stem cells with potential for osteochondral tissue engineering: an in vitro study. <i>Tissue Engineering - Part C: Methods</i> , 2010 , 16, 1083-94	2.9	73
107	Mechanical stress and osteogenesis in vitro. <i>Journal of Bone and Mineral Research</i> , 1992 , 7 Suppl 2, S397-401	4.9	73
106	Inhibition of osteoclastogenesis by mechanically loaded osteocytes: involvement of MEPE. <i>Calcified Tissue International</i> , 2010 , 87, 461-8	3.9	67

105	Microscale fluid flow analysis in a human osteocyte canaliculus using a realistic high-resolution image-based three-dimensional model. <i>Integrative Biology (United Kingdom)</i> , 2012 , 4, 1198-206	3.7	65
104	Bio imaging of intracellular NO production in single bone cells after mechanical stimulation. <i>Journal of Bone and Mineral Research</i> , 2006 , 21, 1722-8	6.3	64
103	IL-6 alters osteocyte signaling toward osteoblasts but not osteoclasts. <i>Journal of Dental Research</i> , 2014 , 93, 394-9	8.1	61
102	The Src inhibitor AZD0530 reversibly inhibits the formation and activity of human osteoclasts. <i>Molecular Cancer Research</i> , 2009 , 7, 476-88	6.6	58
101	Bone Regeneration Using the Freshly Isolated Autologous Stromal Vascular Fraction of Adipose Tissue in Combination With Calcium Phosphate Ceramics. <i>Stem Cells Translational Medicine</i> , 2016 , 5, 1362-1374	6.9	57
100	Application of Additive Manufacturing in Oral and Maxillofacial Surgery. <i>Journal of Oral and Maxillofacial Surgery</i> , 2015 , 73, 2408-18	1.8	54
99	Expression of muscle anabolic and metabolic factors in mechanically loaded MLO-Y4 osteocytes. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2012 , 302, E389-95	6	54
98	Transforming growth factor-beta1 incorporated in calcium phosphate cement stimulates osteotransductivity in rat calvarial bone defects. <i>Clinical Oral Implants Research</i> , 2001 , 12, 609-16	4.8	54
97	Extracellular NO signalling from a mechanically stimulated osteocyte. <i>Journal of Biomechanics</i> , 2007 , 40 Suppl 1, S89-95	2.9	51
96	Response of normal and osteoporotic human bone cells to mechanical stress in vitro. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1998 , 274, E1113-20	6	51
95	Nitric oxide signaling in mechanical adaptation of bone. <i>Osteoporosis International</i> , 2014 , 25, 1427-37	5.3	50
94	Inhibition of osteoclastic bone resorption by mechanical stimulation in vitro. <i>Arthritis and Rheumatism</i> , 1990 , 33, 66-72		50
93	Systemic Inflammation Affects Human Osteocyte-Specific Protein and Cytokine Expression. <i>Calcified Tissue International</i> , 2016 , 98, 596-608	3.9	48
92	Interactive effects of PTH and mechanical stress on nitric oxide and PGE2 production by primary mouse osteoblastic cells. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2003 , 285, E608-13	6	46
91	Mechanical stress induces COX-2 mRNA expression in bone cells from elderly women. <i>Journal of Biomechanics</i> , 2000 , 33, 53-61	2.9	46
90	Cytokines TNF- α , IL-6, IL-17F, and IL-4 Differentially Affect Osteogenic Differentiation of Human Adipose Stem Cells. <i>Stem Cells International</i> , 2016 , 2016, 1318256	5	46
89	Mechanical loading prevents the stimulating effect of IL-1 β on osteocyte-modulated osteoclastogenesis. <i>Biochemical and Biophysical Research Communications</i> , 2012 , 420, 11-6	3.4	45
88	Biocompatibility of Polypyrrole with Human Primary Osteoblasts and the Effect of Dopants. <i>PLoS ONE</i> , 2015 , 10, e0134023	3.7	42

87	Polyamines modulate nitric oxide production and COX-2 gene expression in response to mechanical loading in human adipose tissue-derived mesenchymal stem cells. <i>Stem Cells</i> , 2006 , 24, 2262-9	5.8	41
86	Strontium ranelate affects signaling from mechanically-stimulated osteocytes towards osteoclasts and osteoblasts. <i>Bone</i> , 2013 , 53, 112-9	4.7	40
85	Mechanical loading by fluid shear stress of myotube glycocalyx stimulates growth factor expression and nitric oxide production. <i>Cell Biochemistry and Biophysics</i> , 2014 , 69, 411-9	3.2	38
84	A histomorphometric and micro-computed tomography study of bone regeneration in the maxillary sinus comparing biphasic calcium phosphate and deproteinized cancellous bovine bone in a human split-mouth model. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , 2014 , 117, 8-22	2	34
83	Short (15 minutes) bone morphogenetic protein-2 treatment stimulates osteogenic differentiation of human adipose stem cells seeded on calcium phosphate scaffolds in vitro. <i>Tissue Engineering - Part A</i> , 2013 , 19, 571-81	3.9	32
82	Mechanical loading stimulates BMP7, but not BMP2, production by osteocytes. <i>Calcified Tissue International</i> , 2011 , 89, 318-26	3.9	32
81	Bone Tissue Regeneration in the Oral and Maxillofacial Region: A Review on the Application of Stem Cells and New Strategies to Improve Vascularization. <i>Stem Cells International</i> , 2019 , 2019, 627972	5	32
80	Human maxillary sinus floor elevation as a model for bone regeneration enabling the application of one-step surgical procedures. <i>Tissue Engineering - Part B: Reviews</i> , 2013 , 19, 69-82	7.9	31
79	Release of nitric oxide, but not prostaglandin E2, by bone cells depends on fluid flow frequency. <i>Journal of Orthopaedic Research</i> , 2006 , 24, 1170-7	3.8	31
78	CXCL8 and CCL20 Enhance Osteoclastogenesis via Modulation of Cytokine Production by Human Primary Osteoblasts. <i>PLoS ONE</i> , 2015 , 10, e0131041	3.7	30
77	Mechanical loading reduces inflammation-induced human osteocyte-to-osteoclast communication. <i>Calcified Tissue International</i> , 2015 , 97, 169-78	3.9	28
76	Age-related changes in female mouse cortical bone microporosity. <i>Bone</i> , 2018 , 113, 1-8	4.7	28
75	Inflammatory factors in the circulation of patients with active rheumatoid arthritis stimulate osteoclastogenesis via endogenous cytokine production by osteoblasts. <i>Osteoporosis International</i> , 2014 , 25, 2453-63	5.3	28
74	Initial stress-kick is required for fluid shear stress-induced rate dependent activation of bone cells. <i>Annals of Biomedical Engineering</i> , 2005 , 33, 104-10	4.7	28
73	Mechanical Loading Differentially Affects Osteocytes in Fibulae from Lactating Mice Compared to Osteocytes in Virgin Mice: Possible Role for Lacuna Size. <i>Calcified Tissue International</i> , 2018 , 103, 675-683	3.9	27
72	Blood Vessel Formation and Bone Regeneration Potential of the Stromal Vascular Fraction Seeded on a Calcium Phosphate Scaffold in the Human Maxillary Sinus Floor Elevation Model. <i>Materials</i> , 2018 , 11,	3.5	26
71	Diet and Exercise: a Match Made in Bone. <i>Current Osteoporosis Reports</i> , 2017 , 15, 555-563	5.4	25
70	Mechanical Stimulation and IGF-1 Enhance mRNA Translation Rate in Osteoblasts Via Activation of the AKT-mTOR Pathway. <i>Journal of Cellular Physiology</i> , 2016 , 231, 1283-90	7	24

69	Nitric oxide is involved in the down-regulation of SOST expression induced by mechanical loading. <i>Calcified Tissue International</i> , 2014 , 94, 414-22	3.9	24
68	VDR dependent and independent effects of 1,25-dihydroxyvitamin D3 on nitric oxide production by osteoblasts. <i>Steroids</i> , 2012 , 77, 126-31	2.8	24
67	3D-printed poly(L-lactide) scaffold with gradient mechanical properties according to force distribution in the mandible for mandibular bone tissue engineering. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 104, 103638	4.1	23
66	Differential effects of bone morphogenetic protein-2 and transforming growth factor-beta1 on gene expression of collagen-modifying enzymes in human adipose tissue-derived mesenchymal stem cells. <i>Tissue Engineering - Part A</i> , 2009 , 15, 2213-25	3.9	23
65	Increased endoplasmic reticulum stress in mouse osteocytes with aging alters Cox-2 response to mechanical stimuli. <i>Calcified Tissue International</i> , 2015 , 96, 123-8	3.9	21
64	---Mechanosensitivity of aged muscle stem cells. <i>Journal of Orthopaedic Research</i> , 2018 , 36, 632-641	3.8	20
63	MT1-MMP modulates the mechanosensitivity of osteocytes. <i>Biochemical and Biophysical Research Communications</i> , 2012 , 417, 824-9	3.4	20
62	Aging related ER stress is not responsible for anabolic resistance in mouse skeletal muscle. <i>Biochemical and Biophysical Research Communications</i> , 2015 , 468, 702-7	3.4	19
61	The Osteocyte as the New Discovery of Therapeutic Options in Rare Bone Diseases. <i>Frontiers in Endocrinology</i> , 2020 , 11, 405	5.7	18
60	Mechanically loaded myotubes affect osteoclast formation. <i>Calcified Tissue International</i> , 2014 , 94, 319-269	3.6	18
59	Growth factor gene expression profiles of bone morphogenetic protein-2-treated human adipose stem cells seeded on calcium phosphate scaffolds in vitro. <i>Biochimie</i> , 2013 , 95, 2304-13	4.6	18
58	Enhanced Osteogenic and Vasculogenic Differentiation Potential of Human Adipose Stem Cells on Biphasic Calcium Phosphate Scaffolds in Fibrin Gels. <i>Stem Cells International</i> , 2016 , 2016, 1934270	5	18
57	Osteocytes: Mechanosensors of Bone and Orchestrators of Mechanical Adaptation. <i>Clinical Reviews in Bone and Mineral Metabolism</i> , 2007 , 5, 195-209	2.5	17
56	Evaluation of a new biphasic calcium phosphate for maxillary sinus floor elevation: Micro-CT and histomorphometrical analyses. <i>Clinical Oral Implants Research</i> , 2018 , 29, 488-498	4.8	16
55	Studies on Osteocytes in Their 3D Native Matrix Versus 2D In Vitro Models. <i>Current Osteoporosis Reports</i> , 2019 , 17, 207-216	5.4	15
54	Endothelial nitric oxide synthase is not essential for nitric oxide production by osteoblasts subjected to fluid shear stress in vitro. <i>Calcified Tissue International</i> , 2013 , 92, 228-39	3.9	15
53	1,25-dihydroxyvitamin D3-mediated transforming growth factor-beta release is impaired in cultured osteoblasts from patients with multiple pituitary hormone deficiencies. <i>Journal of Bone and Mineral Research</i> , 1996 , 11, 367-76	6.3	15
52	Enhanced osteogenic activity by MC3T3-E1 pre-osteoblasts on chemically surface-modified poly(L-lactide) 3D-printed scaffolds compared to RGD immobilized scaffolds. <i>Biomedical Materials (Bristol)</i> , 2018 , 14, 015008	3.5	15

51	The 3D Printing of Calcium Phosphate with K-Carrageenan under Conditions Permitting the Incorporation of Biological Components-A Method. <i>Journal of Functional Biomaterials</i> , 2018 , 9,	4.8	15
50	Accuracy and reproducibility of mouse cortical bone microporosity as quantified by desktop microcomputed tomography. <i>PLoS ONE</i> , 2017 , 12, e0182996	3.7	14
49	Supraphysiological loading induces osteocyte-mediated osteoclastogenesis in a novel in vitro model for bone implant loosening. <i>Journal of Orthopaedic Research</i> , 2018 , 36, 1425-1434	3.8	14
48	A novel approach revealing the effect of a collagenous membrane on osteoconduction in maxillary sinus floor elevation with tricalcium phosphate. <i>European Cells and Materials</i> , 2013 , 25, 215-28	4.3	14
47	Is There a Governing Role of Osteocytes in Bone Tissue Regeneration?. <i>Current Osteoporosis Reports</i> , 2020 , 18, 541-550	5.4	14
46	IL-6 counteracts the inhibitory effect of IL-4 on osteogenic differentiation of human adipose stem cells. <i>Journal of Cellular Physiology</i> , 2019 , 234, 20520-20532	7	12
45	Different responsiveness of cells from adult and neonatal mouse bone to mechanical and biochemical challenge. <i>Journal of Cellular Physiology</i> , 2001 , 186, 366-70	7	12
44	Surface modification of silicone tubes by functional carboxyl and amine, but not peroxide groups followed by collagen immobilization improves endothelial cell stability and functionality. <i>Biomedical Materials (Bristol)</i> , 2015 , 10, 015024	3.5	11
43	Differences in proliferation, differentiation, and cytokine production by bone cells seeded on titanium-nitride and cobalt-chromium-molybdenum surfaces. <i>Journal of Biomaterials Applications</i> , 2013 , 28, 278-87	2.9	11
42	Noise enhances the rapid nitric oxide production by bone cells in response to fluid shear stress. <i>Technology and Health Care</i> , 2009 , 17, 57-65	1.1	9
41	Inlet flow rate of perfusion bioreactors affects fluid flow dynamics, but not oxygen concentration in 3D-printed scaffolds for bone tissue engineering: Computational analysis and experimental validation. <i>Computers in Biology and Medicine</i> , 2020 , 124, 103826	7	9
40	Physicochemical Niche Conditions and Mechanosensing by Osteocytes and Myocytes. <i>Current Osteoporosis Reports</i> , 2019 , 17, 235-249	5.4	8
39	Osteocyte morphology and orientation in relation to strain in the jaw bone. <i>International Journal of Oral Science</i> , 2018 , 10, 2	27.9	7
38	Influence of Oxygen in the Cultivation of Human Mesenchymal Stem Cells in Simulated Microgravity: An Explorative Study. <i>Microgravity Science and Technology</i> , 2013 , 25, 59-66	1.6	7
37	Fluoride inhibits the response of bone cells to mechanical loading. <i>Odontology / the Society of the Nippon Dental University</i> , 2011 , 99, 112-8	3.6	7
36	The Osteocyte as an Orchestrator of Bone Remodeling: An Engineer's Perspective. <i>Clinical Reviews in Bone and Mineral Metabolism</i> , 2014 , 12, 2-13	2.5	6
35	Mechanisms of Osteocyte Mechanotransduction. <i>Clinical Reviews in Bone and Mineral Metabolism</i> , 2010 , 8, 163-169	2.5	6
34	Shear Stress Modulates Osteoblast Cell and Nucleus Morphology and Volume. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	6

33	Immediate dental implant placement in calvarial bone grafts to rehabilitate the severely resorbed edentulous maxilla: A prospective pilot study. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2019 , 47, 23-28	3.6	6
32	Hypothermia reduces VEGF-165 expression, but not osteogenic differentiation of human adipose stem cells under hypoxia. <i>PLoS ONE</i> , 2017 , 12, e0171492	3.7	5
31	Nanoliposomal Growth Hormone and Sodium Nitrite Release from Silicone Fibers Reduces Thrombus Formation Under Flow. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 2417-2430	4.7	5
30	Flow Preconditioning of Endothelial Cells on Collagen-Immobilized Silicone Fibers Enhances Cell Retention and Antithrombotic Function. <i>Artificial Organs</i> , 2017 , 41, 556-567	2.6	5
29	Microgravity and bone cell mechanosensitivity: FLOW experiment during the DELTA mission. <i>Microgravity Science and Technology</i> , 2007 , 19, 133-137	1.6	5
28	Histomorphometric and micro-CT analyses of calvarial bone grafts used to reconstruct the extremely atrophied maxilla. <i>Clinical Implant Dentistry and Related Research</i> , 2020 , 22, 593-601	3.9	5
27	Myofiber stretch induces tensile and shear deformation of muscle stem cells in their native niche. <i>Biophysical Journal</i> , 2021 , 120, 2665-2678	2.9	5
26	Biomimetic modification of silicone tubes using sodium nitrite-collagen immobilization accelerates endothelialization. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016 , 104, 1314-1321	3.5	5
25	Bone cells from patients with quiescent Crohn's disease show a reduced growth potential and an impeded maturation. <i>Journal of Cellular Biochemistry</i> , 2012 , 113, 2424-31	4.7	4
24	Increased Osteogenic Potential of Pre-Osteoblasts on Three-Dimensional Printed Scaffolds Compared to Porous Scaffolds for Bone Regeneration. <i>Iranian Biomedical Journal</i> , 2021 , 25, 78-87	2	4
23	Polymethyl methacrylate does not adversely affect the osteogenic potential of human adipose stem cells or primary osteoblasts. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020 , 108, 1536-1545	3.5	4
22	The novel endolysin XZ.700 effectively treats MRSA biofilms in two biofilm models without showing toxicity on human bone cells. <i>Biofouling</i> , 2021 , 37, 184-193	3.3	4
21	Microgravity and Bone Cell Mechanosensitivity 2007 , 157-177		3
20	K-Carrageenan Stimulates Pre-Osteoblast Proliferation and Osteogenic Differentiation: A Potential Factor for the Promotion of Bone Regeneration?. <i>Molecules</i> , 2021 , 26,	4.8	3
19	Biomimetic 3D-printed PCL scaffold containing a high concentration carbonated-nanohydroxyapatite with immobilized-collagen for bone tissue engineering: enhanced bioactivity and physico-mechanical characteristics. <i>Biomedical Materials (Bristol)</i> , 2021 , 16,	3.5	3
18	Fibrin network adaptation to cell-generated forces. <i>Rheologica Acta</i> , 2018 , 57, 603-610	2.3	2
17	Mechanoresponsiveness of human adipose stem cells on nanocomposite and micro-hybrid composite. <i>Journal of Biomedical Materials Research - Part A</i> , 2017 , 105, 2986-2994	5.4	2
16	BONE ADAPTATION AND REGENERATION [NEW DEVELOPMENTS]. <i>International Journal of Modern Physics Conference Series</i> , 2012 , 17, 34-43	0.7	2

15	Low-intensity pulsed ultrasound increases blood vessel size during fracture healing in patients with a delayed-union of the osteotomized fibula. <i>Histology and Histopathology</i> , 2018 , 33, 737-746	1.4	2
14	Short Pretreatment with Calcitriol Is Far Superior to Continuous Treatment in Stimulating Proliferation and Osteogenic Differentiation of Human Adipose Stem Cells. <i>Cell Journal</i> , 2020 , 22, 293-304	3.1	2
13	RGD-functionalized supported lipid bilayers modulate pre-osteoblast adherence and promote osteogenic differentiation. <i>Journal of Biomedical Materials Research - Part A</i> , 2020 , 108, 923-937	5.4	2
12	Bioprinting of Alginate-Encapsulated Pre-osteoblasts in PLGA/βTCP Scaffolds Enhances Cell Retention but Impairs Osteogenic Differentiation Compared to Cell Seeding after 3D-Printing. <i>Regenerative Engineering and Translational Medicine</i> , 2020 , 1	2.4	2
11	Collaboration Around Rare Bone Diseases Leads to the Unique Organizational Incentive of the Amsterdam Bone Center. <i>Frontiers in Endocrinology</i> , 2020 , 11, 481	5.7	2
10	Incorporation of anterior iliac crest or calvarial bone grafts in reconstructed atrophied maxillae: A randomized clinical trial with histomorphometric and micro-CT analyses. <i>Clinical Implant Dentistry and Related Research</i> , 2021 , 23, 492-502	3.9	2
9	Alterations in osteocyte lacunar morphology affect local bone tissue strains. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 123, 104730	4.1	2
8	Sustained release of growth hormone and sodium nitrite from biomimetic collagen coating immobilized on silicone tubes improves endothelialization. <i>Materials Science and Engineering C</i> , 2017 , 77, 1204-1215	8.3	1
7	A Three-Dimensional Mechanical Loading Model of Human Osteocytes in Their Native Matrix. <i>Calcified Tissue International</i> , 2021 , 110, 367	3.9	1
6	Pulsating fluid flow affects pre-osteoblast behavior and osteogenic differentiation through production of soluble factors. <i>Physiological Reports</i> , 2021 , 9, e14917	2.6	1
5	Serum of patients with active rheumatoid arthritis inhibits differentiation of osteochondrogenic precursor cells. <i>Connective Tissue Research</i> , 2016 , 57, 226-35	3.3	1
4	Correlation of clinical manifestations and condylar morphology of patients with temporomandibular degenerative joint diseases.. <i>Cranio - Journal of Craniomandibular Practice</i> , 2022 , 1-8	1.2	0
3	Fluid shear stress-induced mechanotransduction in myoblasts: Does it depend on the glycocalyx?. <i>Experimental Cell Research</i> , 2022 , 113204	4.2	0
2	Mechanosensing in Bone. <i>Clinical Reviews in Bone and Mineral Metabolism</i> , 2010 , 8, 161-162	2.5	
1	Stiff matrices enhance myoblast proliferation, reduce differentiation, and alter the response to fluid shear stress in vitro.. <i>Cell Biochemistry and Biophysics</i> , 2022 , 80, 161	3.2	