Laurence Vico

List of Publications by Year
in descending order

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204	9,579	28242 55	49868 87
papers	citations	h-index	g-index

215	215	215	9529
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effects of long-term microgravity exposure on cancellous and cortical weight-bearing bones of cosmonauts. Lancet, The, 2000, 355, 1607-1611.	6.3	641
2	Mechanical Loading Down-Regulates Peroxisome Proliferator-Activated Receptor Î³ in Bone Marrow Stromal Cells and Favors Osteoblastogenesis at the Expense of Adipogenesis. Endocrinology, 2007, 148, 2553-2562.	1.4	281
3	Effects of 1- and 6-month spaceflight on bone mass and biochemistry in two humans. Bone, 1997, 20, 547-551.	1.4	249
4	Long-duration bed rest as an analog to microgravity. Journal of Applied Physiology, 2016, 120, 891-903.	1.2	234
5	Bone sialoprotein plays a functional role in bone formation and osteoclastogenesis. Journal of Experimental Medicine, 2008, 205, 1145-1153.	4.2	223
6	3D micro-computed tomography of trabecular and cortical bone architecture with application to a rat model of immobilisation osteoporosis. Medical and Biological Engineering and Computing, 2000, 38, 326-332.	1.6	195
7	Effects of whole body vibration on the skeleton and other organ systems in man and animal models: What we know and what we need to know. Ageing Research Reviews, 2008, 7, 319-329.	5.0	180
8	High-Resolution pQCT Analysis at the Distal Radius and Tibia Discriminates Patients With Recent Wrist and Femoral Neck Fractures. Journal of Bone and Mineral Research, 2008, 23, 1741-1750.	3.1	175
9	Stimulation of bone repair with ultrasound: A review of the possible mechanic effects. Ultrasonics, 2014, 54, 1125-1145.	2.1	173
10	Mechanical Strain on Osteoblasts Activates Autophosphorylation of Focal Adhesion Kinase and Proline-rich Tyrosine Kinase 2 Tyrosine Sites Involved in ERK Activation. Journal of Biological Chemistry, 2004, 279, 30588-30599.	1.6	166
11	Noninvasive In Vivo Monitoring of Bone Architecture Alterations in Hindlimb-Unloaded Female Rats Using Novel Three-Dimensional Microcomputed Tomography. Journal of Bone and Mineral Research, 2003, 18, 1622-1631.	3.1	135
12	Skeletal changes during and after spaceflight. Nature Reviews Rheumatology, 2018, 14, 229-245.	3.5	135
13	Leptin Modulates both Resorption and Formation while Preventing Disuse-Induced Bone Loss in Tail-Suspended Female Rats. Endocrinology, 2005, 146, 3652-3659.	1.4	118
14	Space Flight Is Associated with Rapid Decreases of Undercarboxylated Osteocalcin and Increases of Markers of Bone Resorption without Changes in Their Circadian Variation: Observations in Two Cosmonauts. Clinical Chemistry, 2000, 46, 1136-1143.	1.5	117
15	Severe bone alterations under Î²2 agonist treatments: Bone mass, microarchitecture and strength analyses in female rats. Bone, 2005, 37, 622-633.	1.4	107
16	Towards human exploration of space: the THESEUS review series on muscle and bone research priorities. Npj Microgravity, 2017, 3, 8.	1.9	106
17	Bone embedding in pure methyl methacrylate at low temperature preserves enzyme activities. Acta Histochemica, 1987, 81, 183-190.	0.9	105
18	Pathophysiology of bone loss in disuse osteoporosis. Joint Bone Spine, 2011, 78, 572-576.	0.8	105

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19	Femtosecond laser nano/micro patterning of titanium influences mesenchymal stem cell adhesion and commitment. Biomedical Materials (Bristol), 2015, 10, 055002.	1.7	102
20	Effects of Gravitational Changes on the Bone System In Vitro and In Vivo. Bone, 1998, 22, 95S-100S.	1.4	101
21	Rotating-wall vessels, promising bioreactors for osteoblastic cell culture: comparison with other 3D conditions. Medical and Biological Engineering and Computing, 1998, 36, 513-519.	1.6	100
22	Opposite Effects of Leptin on Bone Metabolism: A Dose-Dependent Balance Related to Energy Intake and Insulin-Like Growth Factor-I Pathway. Endocrinology, 2007, 148, 3419-3425.	1.4	98
23	Assessment of bone vascularization and its role in bone remodeling. BoneKEy Reports, 2015, 4, 662.	2.7	98
24	Dose Effects of Propranolol on Cancellous and Cortical Bone in Ovariectomized Adult Rats. Journal of Pharmacology and Experimental Therapeutics, 2006, 318, 1118-1127.	1.3	97
25	Increase of Both Angiogenesis and Bone Mass in Response to Exercise Depends on VEGF. Journal of Bone and Mineral Research, 2004, 19, 1471-1480.	3.1	96
26	Intermittent PTH(1â€“84) is osteoanabolic but not osteoangiogenic and relocates bone marrow blood vessels closer to bone-forming sites. Journal of Bone and Mineral Research, 2011, 26, 2583-2596.	3.1	96
27	Cortical and Trabecular Bone Microstructure Did Not Recover at Weight-Bearing Skeletal Sites and Progressively Deteriorated at Non-Weight-Bearing Sites During the Year Following International Space Station Missions. Journal of Bone and Mineral Research, 2017, 32, 2010-2021.	3.1	96
28	Low dose betaâ€blocker prevents ovariectomyâ€induced bone loss in rats without affecting heart functions. Journal of Cellular Physiology, 2008, 217, 819-827.	2.0	92
29	Differences in Osteocyte Density and Bone Histomorphometry Between Men and Women and Between Healthy and Osteoporotic Subjects. Calcified Tissue International, 2005, 77, 291-296.	1.5	91
30	Tail Suspension Induces Bone Loss in Skeletally Mature Mice in the C57BL/6J Strain but Not in the C3H/HeJ Strain. Journal of Bone and Mineral Research, 2003, 18, 561-569.	3.1	89
31	Excised Bone Structures in Mice: Imaging at Three-dimensional Synchrotron Radiation Micro CT. Radiology, 2003, 229, 921-928.	3.6	86
32	MAPK and SRC-Kinases Control EGR-1 and NF-ÎºB Inductions by Changes in Mechanical Environment in Osteoblasts. Biochemical and Biophysical Research Communications, 2001, 284, 622-631.	1.0	84
33	Relationships between trabecular bone remodeling and bone vascularization: a quantitative study. Bone, 2002, 30, 604-612.	1.4	83
34	Expression of Semaphorin-3A and its receptors in endochondral ossification: Potential role in skeletal development and innervation. Developmental Dynamics, 2005, 234, 393-403.	0.8	83
35	Effects of physical training on bone adaptation in three zones of the rat tibia. Journal of Bone and Mineral Research, 1995, 10, 1745-1752.	3.1	83
36	In VitroThree-Dimensional Bone Tissue Models: From Cells to Controlled and Dynamic Environment. Tissue Engineering - Part B: Reviews, 2015, 21, 133-156.	2.5	82

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37	High-Resolution Three-Dimensional Micro-Computed Tomography Detects Bone Loss and Changes in Trabecular Architecture Early. Investigative Radiology, 2002, 37, 40-46.	3.5	80
38	One-month spaceflight compromises the bone microstructure, tissue-level mechanical properties, osteocyte survival and lacunae volume in mature mice skeletons. Scientific Reports, 2017, 7, 2659.	1.6	80
39	Constitutional Thinness: Unusual Human Phenotype of Low Bone Quality. Journal of Clinical Endocrinology and Metabolism, 2008, 93, 110-117.	1.8	73
40	Absence of the lysophosphatidic acid receptor LPA1 results in abnormal bone development and decreased bone mass. Bone, 2011, 49, 395-403.	1.4	71
41	Brain and Bone Damage in KARAP/DAP12 Loss-of-Function Mice Correlate with Alterations in Microglia and Osteoclast Lineages. American Journal of Pathology, 2005, 166, 275-286.	1.9	70
42	Structure and quantification of microvascularisation within mouse long bones: What and how should we measure?. Bone, 2012, 50, 390-399.	1.4	70
43	Two-week longitudinal survey of bone architecture alteration in the hindlimb-unloaded rat model of bone loss: sex differences. American Journal of Physiology - Endocrinology and Metabolism, 2006, 290, E440-E447.	1.8	69
44	Ex Vivo Bone Formation in Bovine Trabecular Bone Cultured in a Dynamic 3D Bioreactor Is Enhanced by Compressive Mechanical Strain. Tissue Engineering - Part A, 2008, 14, 117-126.	1.6	69
45	Dramatic Decrease of Innervation Density in Bone after Ovariectomy. Endocrinology, 2005, 146, 503-510.	1.4	68
46	Periostin expression contributes to cortical bone loss during unloading. Bone, 2015, 71, 94-100.	1.4	67
47	Osteoblast and Osteoclast Differentiation in anIn VitroThree-Dimensional Model of Bone. Tissue Engineering - Part A, 2009, 15, 2373-2383.	1.6	66
48	Relationship between mean habitual daily energy expenditure and maximal oxygen uptake. Medicine and Science in Sports and Exercise, 1995, 27, 1170???1179.	0.2	65
49	Synchrotron Radiation Micro-CT at the Micrometer Scale for the Analysis of the Three-Dimensional Morphology of Microcracks in Human Trabecular Bone. PLoS ONE, 2011, 6, e21297.	1.1	65
50	Multiscale grooved titanium processed with femtosecond laser influences mesenchymal stem cell morphology, adhesion, and matrix organization. Journal of Biomedical Materials Research - Part A, 2012, 100A, 3108-3116.	2.1	65
51	The role of the SIBLING, Bone Sialoprotein in skeletal biology â€" Contribution of mouse experimental genetics. Matrix Biology, 2016, 52-54, 60-77.	1.5	65
52	Bone tissue response to four-month antiorthostatic bedrest: A bone histomorphometric study. Calcified Tissue International, 1992, 51, 189-194.	1.5	63
53	Contributions of chronological age, age at menarche and menopaus and of anthropometric parameters to axial and peripheral bone densities. Osteoporosis International, 1992, 2, 153-158.	1.3	60
54	Porphyromonas gingivalisexperimentally induces periodontis and an anti-CCP2-associated arthritis in the rat. Annals of the Rheumatic Diseases, 2019, 78, 594-599.	0.5	60

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55	Combined Effects of Exercise and Propranolol on Bone Tissue in Ovariectomized Rats. Journal of Bone and Mineral Research, 2007, 22, 578-588.	3.1	59
56	Absence of mechanical loading in utero influences bone mass and architecture but not innervation in Myod-Myf5-deficient mice. Journal of Anatomy, 2007, 210, 259-271.	0.9	58
57	Effects of Intermittent or Continuous Gravitational Stresses on Cellâ€“Matrix Adhesion: Quantitative Analysis of Focal Contacts in Osteoblastic ROS 17/2.8 Cells. Experimental Cell Research, 1997, 236, 66-75.	1.2	56
58	A method for the automatic characterization of bone architecture in 3D mice microtomographic images. Computerized Medical Imaging and Graphics, 2003, 27, 447-458.	3.5	56
59	Effect of a five-week swimming program on rat bone: A histomorphometric study. Calcified Tissue International, 1992, 51, 137-142.	1.5	55
60	Cross-sectional study of muscle strength and bone mineral density in a population of 106 women between the ages of 44 and 87 years: relationship with age and menopause. European Journal of Applied Physiology and Occupational Physiology, 1995, 70, 180-186.	1.2	54
61	Rat Hindlimb Unloading by Tail Suspension Reduces Osteoblast Differentiation, Induces IL-6 Secretion, and Increases Bone Resorption in Ex Vivo Cultures. Calcified Tissue International, 2002, 70, 176-185.	1.5	54
62	Cortical osteoclasts are less sensitive to etidronate than trabecular osteoclasts. Journal of Bone and Mineral Research, 1991, 6, 673-680.	3.1	53
63	Bone changes in 6-mo-old rats after head-down suspension and a reambulation period. Journal of Applied Physiology, 1995, 79, 1426-1433.	1.2	52
64	Effects of static or dynamic mechanical stresses on osteoblast phenotype expression in three-dimensional contractile collagen gels. Journal of Cellular Biochemistry, 2000, 76, 217-230.	1.2	52
65	Modifications of Bone and Connective Tissue after Orthostatic Bedrest. Osteoporosis International, 2000, 11, 59-67.	1.3	51
66	Mechanical signals modulated vascular endothelial growth factor-A (VEGF-A) alternative splicing in osteoblastic cells through actin polymerisation. Bone, 2008, 42, 1092-1101.	1.4	48
67	Adaptation of the Skeletal System During Long-Duration Spaceflight. Clinical Reviews in Bone and Mineral Metabolism, 2007, 5, 249-261.	1.3	46
68	Long-term soccer practice increases bone mineral content gain in prepubescent boys. Joint Bone Spine, 2008, 75, 41-49.	0.8	46
69	The effect of dual frequency cyclic compression on matrix deposition by osteoblast-like cells grown in 3D scaffolds and on modulation of VEGF variant expression. Biomaterials, 2009, 30, 3279-3288.	5.7	46
70	New insight into the bony labyrinth: A microcomputed tomography study. Auris Nasus Larynx, 2010, 37, 155-161.	0.5	45
71	Skeletal Development of Mice Lacking Bone Sialoprotein (BSP) - Impairment of Long Bone Growth and Progressive Establishment of High Trabecular Bone Mass. PLoS ONE, 2014, 9, e95144.	1.1	45
72	Journal of Bone and Mineral Research. Journal of Bone and Mineral Research, 1992, 7, S445-S447.	3.1	44

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73	Extracellular Matrix Produced by Osteoblasts Cultured Under Low-Magnitude, High-Frequency Stimulation is Favourable to Osteogenic Differentiation of Mesenchymal Stem Cells. Calcified Tissue International, 2010, 87, 351-364.	1.5	44
74	Thyroid hormone receptor Î² mediates thyroid hormone effects on bone remodeling and bone mass. Journal of Bone and Mineral Research, 2011, 26, 2036-2044.	3.1	43
75	Reduction by strontium of the bone marrow adiposity in mice and repression of the adipogenic commitment of multipotent C3H10T1/2 cells. Bone, 2012, 50, 499-509.	1.4	43
76	Space-related bone mineral redistribution and lack of bone mass recovery after reambulation in young rats. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1998, 274, R324-R334.	0.9	42
77	Parathyroid Hormone 1-84 Targets Bone Vascular Structure and Perfusion in Mice: Impacts of Its Administration Regimen and of Ovariectomy. Journal of Bone and Mineral Research, 2014, 29, 1608-1618.	3.1	41
78	The relations between physical ability and bone mass in women aged over 65 years. Journal of Bone and Mineral Research, 1995, 10, 374-383.	3.1	40
79	Imaging and Quantitative Assessment of Long Bone Vascularization in the Adult Rat Using Microcomputed Tomography. Anatomical Record, 2010, 293, 215-224.	0.8	40
80	Energy and Water Metabolism, Body Composition, and Hormonal Changes Induced by 42 Days of Enforced Inactivity and Simulated Weightlessness. Journal of Clinical Endocrinology and Metabolism, 1998, 83, 4289-4297.	1.8	39
81	Osteobiology, strain, and microgravity. Part II: Studies at the tissue level. Calcified Tissue International, 2001, 68, 1-10.	1.5	39
82	Sex hormones and their receptors in bone homeostasis: insights from genetically modified mouse models. Osteoporosis International, 2010, 21, 365-372.	1.3	39
83	Bone sialoprotein deficiency impairs osteoclastogenesis and mineral resorption in vitro. Journal of Bone and Mineral Research, 2010, 25, 2669-2679.	3.1	39
84	Assessment of trabecular bone microarchitecture by two different xâ€ray microcomputed tomographs: A comparative study of the rat distal tibia using Skyscan and Scanco devices. Medical Physics, 2009, 36, 1286-1297.	1.6	37
85	Shape Changes of Osteoblastic Cells Under Gravitational Variations during Parabolic Flight. Relationship with PGE2 Synthesis.. Cell Structure and Function, 1995, 20, 369-375.	0.5	37
86	Variations of microstructure, mineral density and tissue elasticity in B6/C3H mice. Bone, 2007, 41, 1017-1024.	1.4	36
87	Ultrafast Laser Processing of Nanostructured Patterns for the Control of Cell Adhesion and Migration on Titanium Alloy. Nanomaterials, 2020, 10, 864.	1.9	35
88	Osteobiology, Strain, and Microgravity: Part I. Studies at the Cellular Level. Calcified Tissue International, 2000, 67, 2-9.	1.5	34
89	Mice Lacking Bone Sialoprotein (BSP) Lose Bone after Ovariectomy and Display Skeletal Site-Specific Response to Intermittent PTH Treatment. Endocrinology, 2010, 151, 5103-5113.	1.4	34
90	Absence of bone sialoprotein (BSP) impairs primary bone formation and resorption: The marrow ablation model under PTH challenge. Bone, 2012, 50, 1064-1073.	1.4	34

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91	RhoGTPases as Key Players in Mammalian Cell Adaptation to Microgravity. BioMed Research International, 2015, 2015, 1-17.	0.9	34
92	Effects of centrifugation and whole-body vibrations on bloodâ€“brain barrier permeability in mice. Npj Microgravity, 2020, 6, 1.	1.9	34
93	Regulation of ubiquitinâ€“proteasome system, caspase enzyme activities, and extracellular proteinases in rat soleus muscle in response to unloading. Pflugers Archiv European Journal of Physiology, 2007, 454, 625-633.	1.3	33
94	Demonstration of feasibility of automated osteoblastic line culture in space flight. Bone, 1997, 20, 109-116.	1.4	32
95	Doping dose of salbutamol and exercise: deleterious effect on cancellous and cortical bones in adult rats. Journal of Applied Physiology, 2007, 102, 1502-1509.	1.2	32
96	Skeletal site-specific effects of whole body vibration in mature rats: From deleterious to beneficial frequency-dependent effects. Bone, 2013, 55, 69-77.	1.4	31
97	Analysis of femurs from mice embarked on board BIONâ€M1 biosatellite reveals a decrease in immune cell development, including B cells, after 1 wk of recovery on Earth. FASEB Journal, 2019, 33, 3772-3783.	0.2	31
98	Energy and substrate metabolism during a 42-day bed-rest in a head-down tilt position in humans. European Journal of Applied Physiology, 1998, 78, 308-314.	1.2	30
99	Physiological strains remodel extracellular matrix and cellâ€“cell adhesion in osteoblastic cells cultured on alumina-coated titanium alloy. Biomaterials, 2004, 25, 2565-2575.	5.7	30
100	Cyclic strain promotes shuttling of PYK2/Hic-5 complex from focal contacts in osteoblast-like cells. Biochemical and Biophysical Research Communications, 2006, 343, 407-414.	1.0	30
101	Validated Laser Doppler protocol for measurement of mouse bone blood perfusion â€” Response to age or ovariectomy differs with genetic background. Bone, 2013, 55, 418-426.	1.4	30
102	The Impairment of Osteogenesis in Bone Sialoprotein (BSP) Knockout Calvaria Cell Cultures Is Cell Density Dependent. PLoS ONE, 2015, 10, e0117402.	1.1	30
103	Absence of bone sialoprotein (BSP) impairs cortical defect repair in mouse long bone. Bone, 2009, 45, 853-861.	1.4	29
104	Changes in vasoactive factors associated with altered vessel morphology in the tibial metaphysis during ovariectomy-induced bone loss in rats. Bone, 2003, 32, 630-641.	1.4	28
105	Rac1 GTPase silencing counteracts microgravityâ€induced effects on osteoblastic cells. FASEB Journal, 2014, 28, 4077-4087.	0.2	27
106	Blocking the Expression of Both Bone Sialoprotein (BSP) and Osteopontin (OPN) Impairs the Anabolic Action of PTH in Mouse Calvaria Bone. Journal of Cellular Physiology, 2015, 230, 568-577.	2.0	27
107	Stimulation of Bone Repair with Ultrasound. Advances in Experimental Medicine and Biology, 2016, 880, 385-427.	0.8	27
108	Inner ear ossification and mineralization kinetics in human embryonic development - microtomographic and histomorphological study. Scientific Reports, 2017, 7, 4825.	1.6	27

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109	Effects of static or dynamic mechanical stresses on osteoblast phenotype expression in threeâ€dimensional contractile collagen gels. Journal of Cellular Biochemistry, 2000, 76, 217-230.	1.2	27
110	Modulation of the responses of human osteoblast-like cells to physiologic mechanical strains by biomaterial surfaces. Biomaterials, 2005, 26, 4249-4257.	5.7	26
111	Validation of an in vitro 3D bone culture model with perfused and mechanically stressed ceramic scaffold. , 2015, 29, 250-267.		26
112	Bone vascularization and remodeling. Joint Bone Spine, 2010, 77, 521-524.	0.8	25
113	Impact of an obesogenic diet program on bone densitometry, micro architecture and metabolism in male rat. Lipids in Health and Disease, 2012, 11, 91.	1.2	25
114	Effects of short-term dry immersion on bone remodeling markers, insulin and adipokines. PLoS ONE, 2017, 12, e0182970.	1.1	25
115	Bone mass and bone cellular variations after five months of physical training in rhesus monkeys: Histomorphometric study. Calcified Tissue International, 1992, 50, 404-410.	1.5	24
116	Architectural modifications and cellular response during disuse-related bone loss in calcaneus of the sheep. Journal of Applied Physiology, 1996, 80, 198-202.	1.2	24
117	YAP/TAZ: Key Players for Rheumatoid Arthritis Severity by Driving Fibroblast Like Synoviocytes Phenotype and Fibro-Inflammatory Response. Frontiers in Immunology, 2021, 12, 791907.	2.2	24
118	Effects of centrifuging at 2g on rat long bone metaphyses. European Journal of Applied Physiology and Occupational Physiology, 1999, 80, 360-366.	1.2	23
119	Protein quality affects bone status during moderate protein restriction in growing mice. Bone, 2014, 59, 7-13.	1.4	23
120	Fat and Sucrose Intake Induces Obesity-Related Bone Metabolism Disturbances: Kinetic and Reversibility Studies in Growing and Adult Rats. Journal of Bone and Mineral Research, 2016, 31, 98-115.	3.1	23
121	Functional hypoparathyroidism in postmenopausal women with fragility fracture. Joint Bone Spine, 2012, 79, 170-175.	0.8	22
122	Effects of chronic hypergravity: from adaptive to deleterious responses in growing mouse skeleton. Journal of Applied Physiology, 2015, 119, 908-917.	1.2	22
123	Quantitation of cell-matrix adhesion using confocal image analysis of focal contact associated proteins and interference reflection microscopy. , 1997, 28, 298-304.		21
124	Recurrence of Vertebral Fracture with Cyclical Etidronate Therapy in Osteoporosis: Histomorphometry and X-Ray Microanalysis Evaluation. Journal of Bone and Mineral Research, 1999, 14, 198-205.	3.1	21
125	Doping dose of salbutamol and exercise training: impact on the skeleton of ovariectomized rats. Journal of Applied Physiology, 2007, 103, 524-533.	1.2	21
126	Structure of the cortical cytoskeleton in fibers of postural muscles and cardiomyocytes of mice after 30-day 2-gcentrifugation. Journal of Applied Physiology, 2015, 118, 613-623.	1.2	21

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127	Soccer Increases Bone Mass in Prepubescent Boys During Growth: A 3-Yr Longitudinal Study. Journal of Clinical Densitometry, 2015, 18, 179-186.	0.5	21
128	Deletion of OPN in BSP knockout mice does not correct bone hypomineralization but results in high bone turnover. Bone, 2019, 120, 411-422.	1.4	21
129	Hindlimb unloading in rat decreases preosteoblast proliferation assessed in vivo with BrdU incorporation. American Journal of Physiology - Endocrinology and Metabolism, 1998, 274, E108-E114.	1.8	20
130	Macrotopographic closure promotes tissue growth and osteogenesis in vitro. Acta Biomaterialia, 2017, 53, 536-548.	4.1	20
131	High-acceleration whole body vibration stimulates cortical bone accrual and increases bone mineral content in growing mice. Journal of Biomechanics, 2016, 49, 1899-1908.	0.9	18
132	Cancellous bone structure of iliac crest biopsies following 370 days of head-down bed rest. Aviation, Space, and Environmental Medicine, 2005, 76, 915-22.	0.6	18
133	Focal Contact Clustering in Osteoblastic Cells under Mechanical Stresses: Microgravity and Cyclic Deformation. Cell Communication and Adhesion, 2003, 10, 69-83.	1.0	17
134	Positive Association of Obesity and Insulin Resistance With Bone Mineral Density in Tunisian Postmenopausal Women. Journal of Clinical Densitometry, 2018, 21, 163-171.	0.5	17
135	Ineffectiveness of calcitonin on a local-disuse osteoporosis in the sheep: A histomorphometric study. Calcified Tissue International, 1995, 57, 224-228.	1.5	16
136	Lower bone cellular activities in male and female mature C3H/HeJ mice are associated with higher bone mass and different pyridinium crosslink profiles compared to C57BL/6J mice. Journal of Bone and Mineral Metabolism, 2003, 21, 377-387.	1.3	16
137	Morphological, physiological and behavioural evaluation of a â€˜Mice in Spaceâ€™ housing system. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2009, 179, 519-533.	0.7	16
138	Young male soccer players exhibit additional bone mineral acquisition during the peripubertal period: 1-year longitudinal study. European Journal of Pediatrics, 2014, 173, 53-61.	1.3	16
139	Early sclerostin expression explains bone formation inhibition before arthritis onset in the rat adjuvant-induced arthritis model. Scientific Reports, 2018, 8, 3492.	1.6	16
140	Laser-Based Hybrid Manufacturing of Endosseous Implants: Optimized Titanium Surfaces for Enhancing Osteogenic Differentiation of Human Mesenchymal Stem Cells. ACS Biomaterials Science and Engineering, 2019, 5, 4376-4385.	2.6	16
141	A systematic review of methods for tissue analysis in animal studies on orthodontic miniâ€implants. Orthodontics and Craniofacial Research, 2012, 15, 135-147.	1.2	15
142	A well-balanced diet combined or not with exercise induces fat mass loss without any decrease of bone mass despite bone micro-architecture alterations in obese rat. Bone, 2013, 53, 382-390.	1.4	15
143	Eight Days of Earth Reambulation Worsen Bone Loss Induced by 1-Month Spaceflight in the Major Weight-Bearing Ankle Bones of Mature Mice. Frontiers in Physiology, 2018, 9, 746.	1.3	15
144	Parathyroid Hormone Remodels Bone Transitional Vessels and the Leptin Receptor-Positive Pericyte Network in Mice. Journal of Bone and Mineral Research, 2019, 34, 1487-1501.	3.1	15

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145	Unloading-Induced Cortical Bone Loss is Exacerbated by Low-Dose Irradiation During a Simulated Deep Space Exploration Mission. Calcified Tissue International, 2020, 107, 170-179.	1.5	15
146	Role of the small integrin-binding ligand N-linked glycoprotein (SIBLING), bone sialoprotein (BSP) in bone development and remodeling. Osteoporosis International, 2009, 20, 1077-1080.	1.3	14
147	Osteocytes and Weightlessness. Current Osteoporosis Reports, 2021, 19, 626-636.	1.5	14
148	Dissociation of Bone Resorption and Formation in Spaceflight and Simulated Microgravity: Potential Role of Myokines and Osteokines?. Biomedicines, 2022, 10, 342.	1.4	14
149	Interactions between estrogen and mechanical strain effects on U2OS human osteosarcoma cells are not influenced by estrogen receptor type. Bone, 2004, 35, 1127-1135.	1.4	13
150	Effects of phospholipase D during cultured osteoblast mineralization and bone formation. Journal of Cellular Biochemistry, 2019, 120, 5923-5935.	1.2	13
151	Assessment of bone structure and acoustic impedance in C3H and BL6 mice using high resolution scanning acoustic microscopy. Ultrasonics, 2006, 44, e1307-e1311.	2.1	12
152	Early Subchondral Bone Loss at Arthritis Onset Predicted Late Arthritis Severity in a Rat Arthritis Model. Journal of Cellular Physiology, 2017, 232, 1318-1325.	2.0	12
153	Impaired Energetic Metabolism After Central Leptin Signaling Leads to Massive Appendicular Bone Loss in Hindlimb-Suspended Rats. Journal of Bone and Mineral Research, 2008, 23, 2040-2047.	3.1	11
154	YAP Transcriptional Activity Dictates Cell Response to TNF In Vitro. Frontiers in Immunology, 2022, 13, 856247.	2.2	11
155	Focal contacts organization in osteoblastic cells under microgravity and cyclic deformation conditions. Advances in Space Research, 2003, 32, 1561-1567.	1.2	10
156	Adaptive Remodeling of Trabecular Bone Core Cultured in 3-D Bioreactor Providing Cyclic Loading: An Acoustic Microscopy Study. Ultrasound in Medicine and Biology, 2010, 36, 999-1007.	0.7	10
157	Apatite content of collagen materials dose-dependently increases pre-osteoblastic cell deposition of a cement line-like matrix. Bone, 2010, 47, 23-33.	1.4	10
158	RhoGTPase stimulation is associated with strontium chloride treatment to counter simulated microgravity-induced changes in multipotent cell commitment. Npj Microgravity, 2017, 3, 7.	1.9	10
159	3D Analysis of Cortical and Trabecular Bone From Hip DXA:Precision and Trend Assessment Interval in PostmenopausalWomen. Journal of Clinical Densitometry, 2019, 22, 214-218.	0.5	10
160	Third harmonic generation imaging and analysis of the effect of low gravity on the lacuno-canalicular network of mouse bone. PLoS ONE, 2019, 14, e0209079.	1.1	10
161	Feasibility of Micro-Crack Detection in Human Trabecular Bone Images from 3D Synchrotron Microtomography. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 3918-21.	0.5	9
162	Functionalization of matrices by cyclically stretched osteoblasts through matrix targeting of VEGF. Biomaterials, 2010, 31, 6477-6484.	5.7	9

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