Mark R Forwood

List of Publications by Year
in descending order

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73 papers	5,354 citations	117625 34 h-index	82547 72 g-index
78 all docs	78 docs citations	78 times ranked	5140 citing authors

#	Article	IF	Citations
1	Monocyte Chemotactic Protein-1 (MCP1) Accumulation in Human Osteoclast Precursor Cultures. Life, 2022, 12, 789.	2.4	3
2	Heterogeneity in microstructural deterioration following spinal cord injury. Bone, 2021, 142, 115778.	2.9	10
3	Comparison of obesity and metabolic syndrome prevalence using fat mass index, body mass index and percentage body fat. PLoS ONE, 2021, 16, e0245436.	2.5	17
4	Assessment of romosozumab efficacy in the treatment of postmenopausal osteoporosis: Results from a mechanistic PK-PD mechanostat model of bone remodeling. Bone, 2020, 133, 115223.	2.9	11
5	A 5-year longitudinal study of changes in body composition in women in the perimenopause and beyond. Maturitas, 2020, 132, 49-56.	2.4	4
6	Intermittent Parathyroid Hormone Accelerates Stress Fracture Healing More Effectively Following Cessation of Bisphosphonate Treatment. JBMR Plus, 2020, 4, e10387.	2.7	1
7	Study of the combined effects of PTH treatment and mechanical loading in postmenopausal osteoporosis using a new mechanistic PK-PD model. Biomechanics and Modeling in Mechanobiology, 2020, 19, 1765-1780.	2.8	13
8	Dmp1Cre-directed knockdown of parathyroid hormoneâ€“related protein (PTHrP) in murine decidua is associated with a life-long increase in bone mass, width, and strength in male progeny. Journal of Bone and Mineral Research, 2020, 36, 1999-2016.	2.8	4
9	Increased autophagy in EphrinB2-deficient osteocytes is associated with elevated secondary mineralization and brittle bone. Nature Communications, 2019, 10, 3436.	12.8	48
10	Monocyte Chemoattractant Protein-1 (MCP-1/CCL2) Drives Activation of Bone Remodelling and Skeletal Metastasis. Current Osteoporosis Reports, 2019, 17, 538-547.	3.6	66
11	Mechanobiological osteocyte feedback drives mechanostat regulation of bone in a multiscale computational model. Biomechanics and Modeling in Mechanobiology, 2019, 18, 1475-1496.	2.8	32
12	Computational model of the dual action of PTH â€" Application to a rat model of osteoporosis. Journal of Theoretical Biology, 2019, 473, 67-79.	1.7	14
13	Single injection of PTH improves osteoclastic parameters of remodeling at a stress fracture site in rats. Journal of Orthopaedic Research, 2019, 37, 1172-1182.	2.3	5
14	Inhibition of Interleukinâ€1Î² Signaling by Anakinra Demonstrates a Critical Role of Bone Loss in Experimental Arthritogenic Alphavirus Infections. Arthritis and Rheumatology, 2019, 71, 1185-1190.	5.6	17
15	Autocrine and Paracrine Regulation of the Murine Skeleton by Osteocyte-Derived Parathyroid Hormone-Related Protein. Journal of Bone and Mineral Research, 2018, 33, 137-153.	2.8	54
16	Whither no-fault schemes in Australia: Have we closed the care and compensation gap?. Alternative Law Journal, 2018, 43, 166-170.	0.2	1
17	Functional Adaptation of Bone: The Mechanostat and Beyond. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2018, , 1-60.	0.6	13
18	Bilateral Chondroepitrochlearis Muscle: Case Report, Phylogenetic Analysis, and Clinical Significance. Anatomy Research International, 2016, 2016, 1-8.	1.1	7

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19	CCL2 and CCR2 are Essential for the Formation of Osteoclasts and Foreign Body Giant Cells. Journal of Cellular Biochemistry, 2016, 117, 382-389.	2.6	54
20	Anabolic action of parathyroid hormone (PTH) does not compromise bone matrix mineral composition or maturation. Bone, 2016, 93, 146-154.	2.9	25
21	Integrating gross pathology into teaching of undergraduate medical science students using human cadavers. Pathology International, 2016, 66, 511-517.	1.3	9
22	Pentosan Polysulfate: a Novel Glycosaminoglycan-Like Molecule for Effective Treatment of Alphavirus-Induced Cartilage Destruction and Inflammatory Disease. Journal of Virology, 2015, 89, 8063-8076.	3.4	51
23	Bindarit, an Inhibitor of Monocyte Chemotactic Protein Synthesis, Protects against Bone Loss Induced by Chikungunya Virus Infection. Journal of Virology, 2015, 89, 581-593.	3.4	98
24	Osteocyte expression of caspase-3, COX-2, IL-6 and sclerostin are spatially and temporally associated following stress fracture initiation. BoneKEy Reports, 2014, 3, 571.	2.7	26
25	Differential Expression of Chemokines, Chemokine Receptors and Proteinases by Foreign Body Giant Cells (FBGCs) and Osteoclasts. Journal of Cellular Biochemistry, 2014, 115, 1290-1298.	2.6	36
26	The Primary Function of gp130 Signaling in Osteoblasts Is To Maintain Bone Formation and Strength, Rather Than Promote Osteoclast Formation. Journal of Bone and Mineral Research, 2014, 29, 1492-1505.	2.8	90
27	EphrinB2 signaling in osteoblasts promotes bone mineralization by preventing apoptosis. FASEB Journal, 2014, 28, 4482-4496.	0.5	70
28	Selective and nonâ€selective cyclooxygenase inhibitors delay stress fracture healing in the rat ulna. Journal of Orthopaedic Research, 2013, 31, 235-242.	2.3	25
29	Reducing the radiation sterilization dose improves mechanical and biological quality while retaining sterility assurance levels of bone allografts. Bone, 2013, 57, 194-200.	2.9	34
30	Foreign body giant cells and osteoclasts are TRAP positive, have podosomeâ€belts and both require OCâ€STAMP for cell fusion. Journal of Cellular Biochemistry, 2013, 114, 1772-1778.	2.6	44
31	Validation of 11 kGy as a Radiation Sterilization Dose for Frozen Bone Allografts. Journal of Arthroplasty, 2011, 26, 303-308.	3.1	29
32	Sponge swabs increase sensitivity of sterility testing of processed bone and tendon allografts. Journal of Industrial Microbiology and Biotechnology, 2011, 38, 1127-1132.	3.0	5
33	Bone mineral accrual from 8 to 30 years of age: An estimation of peak bone mass. Journal of Bone and Mineral Research, 2011, 26, 1729-1739.	2.8	492
34	Enhanced Expression of Osteocalcin mRNA in Human Osteoarthritic Trabecular Bone of the Proximal Femur Is Associated with Decreased Expression of Interleukin-6 and Interleukin-11 mRNA. Journal of Bone and Mineral Research, 2010, 15, 332-341.	2.8	44
35	Effect of Penetration Rate on Insertion Force in Trabecular Bone Biopsy. Materials Science Forum, 2010, 654-656, 2225-2228.	0.3	2
36	Discordant effects of vitamin D deficiency in trabecular and cortical bone architecture and strength in growing rodents. Journal of Steroid Biochemistry and Molecular Biology, 2010, 121, 284-287.	2.5	17

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37	Body composition and muscle strength as predictors of bone mineral density in Crohnâ€™s disease. Journal of Bone and Mineral Metabolism, 2009, 27, 456-463.	2.7	38
38	Validation of 15ÂkGy as a radiation sterilisation dose for bone allografts manufactured at the Queensland Bone Bank: application of the VDmax 15 method. Cell and Tissue Banking, 2008, 9, 139-147.	1.1	19
39	Biomechanical properties of raw meshes used in pelvic floor reconstruction. International Urogynecology Journal, 2008, 19, 1677-1681.	1.4	35
40	Physical activity and bone development during childhood: insights from animal models. Journal of Applied Physiology, 2008, 105, 334-341.	2.5	28
41	Sterilization of Allograft Bone: is 25 kGy the Gold Standard for Gamma Irradiation?. Cell and Tissue Banking, 2007, 8, 81-91.	1.1	128
42	Sterilization of allograft bone: effects of gamma irradiation on allograft biology and biomechanics. Cell and Tissue Banking, 2007, 8, 93-105.	1.1	203
43	Physical activity and strength of the femoral neck during the adolescent growth spurt: A longitudinal analysis. Bone, 2006, 38, 576-583.	2.9	70
44	Inhibitors of cyclo-oxygenase-2 and secretory phospholipase A2 preserve bone architecture following ovariectomy in adult rats. Bone, 2006, 39, 134-142.	2.9	39
45	From Mawson's hut to skeletal growth: A life in science. Bone, 2006, 39, 669.	2.9	0
46	Regulation of bone biology by prostaglandin endoperoxide H synthases (PGHS): A rose by any other nameâ€¦. Cytokine and Growth Factor Reviews, 2006, 17, 203-216.	7.2	35
47	What Does the Animal Model Teach Us about the Effects of Physical Activity on Growing Bone?. Pediatric Exercise Science, 2006, 18, 282-289.	1.0	4
48	Temporal expression of fibroblast growth factor receptors during primary ligament repair. Knee Surgery, Sports Traumatology, Arthroscopy, 2004, 12, 490-6.	4.2	12
49	Sexual dimorphism of the femoral neck during the adolescent growth spurt: a structural analysis. Bone, 2004, 35, 973-981.	2.9	74
50	Strength Indices of the Proximal Femur and Shaft in Prepubertal Female Gymnasts. Medicine and Science in Sports and Exercise, 2003, 35, 513-518.	0.4	59
51	Age does not influence the bone response to treadmill exercise in female rats. Medicine and Science in Sports and Exercise, 2002, 34, 1958-1965.	0.4	28
52	Skeletal effects of low-intensity pulsed ultrasound on the ovariectomized rodent. Ultrasound in Medicine and Biology, 2001, 27, 989-998.	1.5	38
53	Growth Hormone Is Permissive for Skeletal Adaptation to Mechanical Loading. Journal of Bone and Mineral Research, 2001, 16, 2284-2290.	2.8	34
54	The Ratio of Messenger RNA Levels of Receptor Activator of Nuclear Factor ÎºB Ligand to Osteoprotegerin Correlates with Bone Remodeling Indices in Normal Human Cancellous Bone but Not in Osteoarthritis. Journal of Bone and Mineral Research, 2001, 16, 1015-1027.	2.8	123

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55	Does childhood and adolescence provide a unique opportunity for exercise to strengthen the skeleton?. Journal of Science and Medicine in Sport, 2000, 3, 150-164.	1.3	113
56	Transgenic Mice Overexpressing Tartrate-Resistant Acid Phosphatase Exhibit an Increased Rate of Bone Turnover. Journal of Bone and Mineral Research, 2000, 15, 103-110.	2.8	142
57	Suppressed Bone Turnover by Bisphosphonates Increases Microdamage Accumulation and Reduces Some Biomechanical Properties in Dog Rib. Journal of Bone and Mineral Research, 2000, 15, 613-620.	2.8	607
58	Elastic anisotropy and collagen orientation of osteonal bone are dependent on the mechanical strain distribution. Journal of Orthopaedic Research, 1999, 17, 59-66.	2.3	96
59	Does microdamage accumulation affect the mechanical properties of bone?. Journal of Biomechanics, 1998, 31, 337-345.	2.1	360
60	Bone Microdamage and Skeletal Fragility in Osteoporotic and Stress Fractures. Journal of Bone and Mineral Research, 1997, 12, 6-15.	2.8	593
61	En bloc staining of bone under load does not improve dye diffusion into microcracks. Journal of Biomechanics, 1997, 31, 285-288.	2.1	7
62	The Effect of Shoe Gear on Human Tibial Strains Recorded During Dynamic Loading: A Pilot Study. Foot and Ankle International, 1996, 17, 667-671.	2.3	25
63	The influence of hand guards on forces and muscle activity during giant swings on the high bar. Medicine and Science in Sports and Exercise, 1995, 27, 1550???1556.	0.4	10
64	High frequency components of bone strain in dogs measured during various activities. Journal of Biomechanics, 1995, 28, 39-44.	2.1	45
65	Mechanotransduction in bone: do bone cells act as sensors of fluid flow?. FASEB Journal, 1994, 8, 875-878.	0.5	370
66	Physical activity and bone mass: exercises in futility?. Bone and Mineral, 1993, 21, 89-112.	1.9	276
67	Repetitive loading, in vivo, of the tibia and femora of rats: Effects of a single bout of treadmill running. Calcified Tissue International, 1992, 50, 193-196.	3.1	8
68	Repetitive loading, in vivo, of the tibiae and femora of rats: effects of repeated bouts of treadmill-running. Bone and Mineral, 1991, 13, 35-46.	1.9	37
69	Microdamage in response to repetitive torsional loading in the rat tibia. Calcified Tissue International, 1989, 45, 47-53.	3.1	106
70	Effects of exercise on bone growth mechanical and physical properties studied in the rat. Clinical Biomechanics, 1987, 2, 185-190.	1.2	20
71	Immobilization and retraining of cruciate ligaments in the rat. Acta Orthopaedica, 1987, 58, 260-264.	1.4	47
72	Effects of exercise on bone morphology: Vascular channels studied in the rat tibia. Acta Orthopaedica, 1986, 57, 204-207.	1.4	18

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73	Scaling segmental moments of inertia for individual subjects. Journal of Biomechanics, 1985, 18, 755-761.	2.1	17