

R Graham Russell

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4376198/r-graham-russell-publications-by-citations.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

326
papers

25,140
citations

80
h-index

150
g-index

328
ext. papers

26,627
ext. citations

8.3
avg, IF

6.63
L-index

#	Paper	IF	Citations
326	Mechanisms of action of bisphosphonates: similarities and differences and their potential influence on clinical efficacy. <i>Osteoporosis International</i> , 2008 , 19, 733-59	5.3	1008
325	An interleukin 1 like factor stimulates bone resorption in vitro. <i>Nature</i> , 1983 , 306, 378-80	50.4	908
324	Nitrogen-containing bisphosphonates inhibit the mevalonate pathway and prevent post-translational prenylation of GTP-binding proteins, including Ras. <i>Journal of Bone and Mineral Research</i> , 1998 , 13, 581-9	6.3	898
323	Bisphosphonates: the first 40 years. <i>Bone</i> , 2011 , 49, 2-19	4.7	756
322	Bisphosphonates: from the laboratory to the clinic and back again. <i>Bone</i> , 1999 , 25, 97-106	4.7	687
321	Novel insights into actions of bisphosphonates on bone: differences in interactions with hydroxyapatite. <i>Bone</i> , 2006 , 38, 617-27	4.7	646
320	Diphosphonates inhibit hydroxyapatite dissolution in vitro and bone resorption in tissue culture and in vivo. <i>Science</i> , 1969 , 165, 1262-4	33.3	632
319	Alendronate mechanism of action: geranylgeraniol, an intermediate in the mevalonate pathway, prevents inhibition of osteoclast formation, bone resorption, and kinase activation in vitro. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 133-8	11.5	578
318	Production of collagenase and prostaglandins by isolated adherent rheumatoid synovial cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1976 , 73, 945-9	11.5	521
317	Diphosphonates inhibit formation of calcium phosphate crystals in vitro and pathological calcification in vivo. <i>Science</i> , 1969 , 165, 1264-6	33.3	495
316	Denosumab and bisphosphonates: different mechanisms of action and effects. <i>Bone</i> , 2011 , 48, 677-92	4.7	445
315	The molecular mechanism of nitrogen-containing bisphosphonates as antiosteoporosis drugs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 7829-34	11.5	423
314	Effect of ethane-1-hydroxy-1,1-diphosphonate (EHDP) and dichloromethylene diphosphonate (Cl 2 MDP) on the calcification and resorption of cartilage and bone in the tibial epiphysis and metaphysis of rats. <i>Calcified Tissue Research</i> , 1973 , 11, 196-214		422
313	Production of osteocalcin by human bone cells in vitro. Effects of 1,25(OH)2D3, 24,25(OH)2D3, parathyroid hormone, and glucocorticoids. <i>Metabolic Bone Disease & Related Research</i> , 1984 , 5, 229-34		413
312	Effect of pyrophosphate on hydroxyapatite and its implications in calcium homeostasis. <i>Nature</i> , 1966 , 212, 901-3	50.4	411
311	Bisphosphonates induce apoptosis in human myeloma cell lines: a novel anti-tumour activity. <i>British Journal of Haematology</i> , 1997 , 98, 665-72	4.5	358
310	Clodronate and liposome-encapsulated clodronate are metabolized to a toxic ATP analog, adenosine 5R(beta, gamma-dichloromethylene) triphosphate, by mammalian cells in vitro. <i>Journal of Bone and Mineral Research</i> , 1997 , 12, 1358-67	6.3	331

309	Inhibition of osteoclast-like cell formation by bisphosphonates in long-term cultures of human bone marrow. <i>Journal of Clinical Investigation</i> , 1989 , 83, 1930-5	15.9	287
308	The relationship between the chemistry and biological activity of the bisphosphonates. <i>Bone</i> , 2011 , 49, 20-33	4.7	282
307	The influence of pyrophosphate, condensed phosphates, phosphonates and other phosphate compounds on the dissolution of hydroxyapatite in vitro and on bone resorption induced by parathyroid hormone in tissue culture and in thyroparathyroidectomised rats. <i>Calcified Tissue Research</i> , 1970 , 6, 183-96		280
306	The inhibitory effect of phosphonates on the formation of calcium phosphate crystals in vitro and on aortic and kidney calcification in vivo. <i>European Journal of Clinical Investigation</i> , 1970 , 1, 12-8	4.6	270
305	Collagenase production by rheumatoid synovial cells: stimulation by a human lymphocyte factor. <i>Science</i> , 1977 , 195, 181-3	33.3	253
304	A UK Consensus Group on management of glucocorticoid-induced osteoporosis: an update. <i>Journal of Internal Medicine</i> , 1998 , 244, 271-92	10.8	243
303	1,25-Dihydroxyvitamin D3 and human bone-derived cells in vitro: effects on alkaline phosphatase, type I collagen and proliferation. <i>Endocrinology</i> , 1986 , 119, 1776-85	4.8	241
302	Stimulation by human interleukin 1 of cartilage breakdown and production of collagenase and proteoglycanase by human chondrocytes but not by human osteoblasts in vitro. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1984 , 797, 186-93	4	234
301	Overview of bisphosphonates. <i>Cancer</i> , 1997 , 80, 1652-60	6.4	209
300	Heterocycle-containing bisphosphonates cause apoptosis and inhibit bone resorption by preventing protein prenylation: evidence from structure-activity relationships in J774 macrophages. <i>Journal of Bone and Mineral Research</i> , 1998 , 13, 1668-78	6.3	198
299	The pharmacology of bisphosphonates and new insights into their mechanisms of action. <i>Journal of Bone and Mineral Research</i> , 1999 , 14 Suppl 2, 53-65	6.3	188
298	Molecular mechanisms of action of bisphosphonates. <i>Bone</i> , 1999 , 24, 73S-79S	4.7	188
297	Inorganic pyrophosphate in plasma in normal persons and in patients with hypophosphatasia, osteogenesis imperfecta, and other disorders of bone. <i>Journal of Clinical Investigation</i> , 1971 , 50, 961-9	15.9	184
296	Bisphosphonates: pharmacology, mechanisms of action and clinical uses. <i>Osteoporosis International</i> , 1999 , 9 Suppl 2, S66-80	5.3	179
295	Evaluation of bone turnover in type I osteoporosis using biochemical markers specific for both bone formation and bone resorption. <i>Osteoporosis International</i> , 1993 , 3, 255-60	5.3	177
294	The bisphosphonate incadronate (YM175) causes apoptosis of human myeloma cells in vitro by inhibiting the mevalonate pathway. <i>Cancer Research</i> , 1998 , 58, 5294-7	10.1	172
293	Factors affecting the assay of urinary 3-hydroxy pyridinium crosslinks of collagen as markers of bone resorption. <i>European Journal of Clinical Investigation</i> , 1993 , 23, 341-9	4.6	159
292	Estrogen inhibits release of tumor necrosis factor from peripheral blood mononuclear cells in postmenopausal women. <i>Journal of Bone and Mineral Research</i> , 1990 , 5, 983-8	6.3	158

291	Bisphosphonates induce apoptosis in mouse macrophage-like cells in vitro by a nitric oxide-independent mechanism. <i>Journal of Bone and Mineral Research</i> , 1996 , 11, 1482-91	6.3	154
290	The modulation of the expression of IL-6 and its receptor in human osteoblasts in vitro. <i>Endocrinology</i> , 1991 , 129, 1513-20	4.8	154
289	Diphosphonates and Paget's disease of bone. <i>Lancet, The</i> , 1971 , 1, 945-7	40	149
288	Stimulation of the proliferation of human bone cells in vitro by human monocyte products with interleukin-1 activity. <i>Journal of Clinical Investigation</i> , 1985 , 75, 1223-9	15.9	149
287	Parathyroid hormone stimulates the proliferation of cells derived from human bone. <i>Endocrinology</i> , 1986 , 118, 2445-9	4.8	148
286	Prostacyclin increases cyclic AMP levels and adenylate cyclase activity in platelets. <i>Nature</i> , 1977 , 267, 850-2	50.4	135
285	EXCRETION OF INORGANIC PYROPHOSPHATE IN HYPOPHOSPHATASIA. <i>Lancet, The</i> , 1965 , 2, 461-4	40	134
284	The influence of pyrophosphate analogues (diphosphonates) on the precipitation and dissolution. <i>Calcified Tissue Research</i> , 1968 , 2, Suppl:10-10a		134
283	Effect of dichloromethylene diphosphonate in Paget's disease of bone and in hypercalcaemia due to primary hyperparathyroidism or malignant disease. <i>Lancet, The</i> , 1980 , 1, 1043-7	40	133
282	Human synovium releases a factor which stimulates chondrocyte production of PGE and plasminogen activator. <i>Nature</i> , 1980 , 286, 891-2	50.4	131
281	Effects of 1,25-dihydroxycholecalciferol on calcium absorption, muscle weakness, and bone disease in chronic renal failure. <i>Lancet, The</i> , 1974 , 1, 379-84	40	129
280	Diphosphonates in Paget's disease. <i>Lancet, The</i> , 1974 , 1, 894-8	40	128
279	Structure-activity relationships among the nitrogen containing bisphosphonates in clinical use and other analogues: time-dependent inhibition of human farnesyl pyrophosphate synthase. <i>Journal of Medicinal Chemistry</i> , 2008 , 51, 2187-95	8.3	125
278	In vitro activation of human chondrocytes and synoviocytes by a human interleukin-1-like factor. <i>Arthritis and Rheumatism</i> , 1984 , 27, 654-62		125
277	Expression of bone morphogenetic proteins in human prostatic adenocarcinoma and benign prostatic hyperplasia. <i>British Journal of Cancer</i> , 1992 , 66, 1159-63	8.7	116
276	Influence of pyrophosphate on the transformation of amorphous to crystalline calcium phosphate. <i>Calcified Tissue Research</i> , 1968 , 2, 49-59		116
275	Vitamin D metabolites regulate osteocalcin synthesis and proliferation of human bone cells in vitro. <i>Journal of Endocrinology</i> , 1985 , 105, 391-6	4.7	115
274	Inorganic pyrophosphate in plasma, urine, and synovial fluid of patients with pyrophosphate arthropathy (chondrocalcinosis or pseudogout). <i>Lancet, The</i> , 1970 , 2, 899-902	40	115

273	Pyrophosphate and diphosphonates in skeletal metabolism. Physiological, clinical and therapeutic aspects. <i>Clinical Orthopaedics and Related Research</i> , 1975 , 241-63	2.2	114
272	The crystal structure of human geranylgeranyl pyrophosphate synthase reveals a novel hexameric arrangement and inhibitory product binding. <i>Journal of Biological Chemistry</i> , 2006 , 281, 22004-22012	5.4	113
271	Ibandronate in osteoporosis: preclinical data and rationale for intermittent dosing. <i>Osteoporosis International</i> , 2004 , 15, 423-33	5.3	108
270	Prevention of bone loss with risedronate in glucocorticoid-treated rheumatoid arthritis patients. <i>Osteoporosis International</i> , 2000 , 11, 331-7	5.3	106
269	Bisphosphonates are incorporated into adenine nucleotides by human aminoacyl-tRNA synthetase enzymes. <i>Biochemical and Biophysical Research Communications</i> , 1996 , 224, 863-9	3.4	105
268	Regulation of osteogenic differentiation of human bone marrow stromal cells: interaction between transforming growth factor-beta and 1,25(OH)(2) vitamin D(3) In vitro. <i>Calcified Tissue International</i> , 1999 , 65, 173-80	3.9	103
267	Actions of recombinant human gamma-interferon and tumor necrosis factor alpha on the proliferation and osteoblastic characteristics of human trabecular bone cells in vitro. <i>Arthritis and Rheumatism</i> , 1988 , 31, 1500-7		103
266	The effects of recombinant human interleukin-1 beta on cellular proliferation and the production of prostaglandin E2, plasminogen activator, osteocalcin and alkaline phosphatase by osteoblast-like cells derived from human bone. <i>Biochemical and Biophysical Research Communications</i> , 1990 , 166, 208-16	3.4	102
265	Intravenous clodronate in the treatment and retreatment of Paget's disease of bone. <i>Lancet, The</i> , 1985 , 1, 1474-7	4.0	101
264	Abnormalities in circadian patterns of bone resorption and renal calcium conservation in type I osteoporosis. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1992 , 74, 487-94	5.6	100
263	Incorporation of bisphosphonates into adenine nucleotides by amoebae of the cellular slime mould <i>Dictyostelium discoideum</i> . <i>Biochemical Journal</i> , 1994 , 303 (Pt 1), 303-11	3.8	97
262	Nyctohemeral changes in bone turnover assessed by serum bone Gla-protein concentration and urinary deoxypyridinoline excretion: effects of growth and ageing. <i>Clinical Science</i> , 1992 , 83, 375-82	6.5	95
261	Effects of growth factors and interleukin-1 alpha on proteoglycan and type II collagen turnover in bovine nasal and articular chondrocyte pellet cultures. <i>Endocrinology</i> , 1996 , 137, 3557-65	4.8	94
260	Inhibition by pyrophosphate and polyphosphate of aortic calcification induced by vitamin D3 in rats. <i>Clinical Science</i> , 1968 , 35, 363-72		89
259	Modulation of connective tissue metabolism by partially purified human interleukin 1. <i>Cellular Immunology</i> , 1985 , 90, 41-51	4.4	88
258	Is 24,25-dihydroxycholecalciferol a calcium-regulating hormone in man?. <i>The BMJ</i> , 1978 , 1, 1382-6		88
257	Hypophosphatasia and the extracellular metabolism of inorganic pyrophosphate: clinical and laboratory aspects. <i>Critical Reviews in Clinical Laboratory Sciences</i> , 1991 , 28, 175-232	9.4	86
256	Influence of bone affinity on the skeletal distribution of fluorescently labeled bisphosphonates in vivo. <i>Journal of Bone and Mineral Research</i> , 2012 , 27, 835-47	6.3	85

255	Effect of pyrophosphate on dissolution of hydroxyapatite and its possible importance in calcium homeostasis. <i>Experimental Biology and Medicine</i> , 1966 , 122, 317-20	3.7	85
254	Rate of reversal of hypercalcaemia and hypercalciuria induced by vitamin D and its 1alpha-hydroxylated derivatives. <i>The BMJ</i> , 1977 , 1, 78-81		84
253	The effects of diphosphonates, polyphosphates, and calcitonin on "immobilisation osteoporosis" in rats. <i>European Journal of Clinical Investigation</i> , 1971 , 1, 336-44	4.6	84
252	Interleukin-6 does not stimulate bone resorption in neonatal mouse calvariae. <i>Journal of Bone and Mineral Research</i> , 1991 , 6, 3-8	6.3	81
251	1,25-dihydroxycholecalciferol and 1alpha-hydroxycholecalciferol in hypoparathyroidism. <i>Lancet, The</i> , 1974 , 2, 14-7	4.0	81
250	Pyrophosphate: a key inhibitor of mineralisation. <i>Current Opinion in Pharmacology</i> , 2016 , 28, 57-68	5.1	81
249	Effects of dietary fish oil supplementation on the fatty acid composition of the human platelet membrane: demonstration of selectivity in the incorporation of eicosapentaenoic acid into membrane phospholipid pools. <i>Clinical Science</i> , 1985 , 68, 449-54	6.5	80
248	The use of dichloromethylene diphosphonate for the management of hypercalcaemia in multiple myeloma. <i>British Journal of Haematology</i> , 1983 , 54, 121-32	4.5	80
247	Prevention by a diphosphonate of immobilization "osteoporosis" in rats. <i>Nature</i> , 1969 , 223, 211-2	50.4	80
246	Effect of diphosphonates and calcitonin on the chemistry and quantitative histology of rat bone. <i>Calcified Tissue Research</i> , 1973 , 11, 179-95		79
245	Human myeloma cells shed the interleukin-6 receptor: inhibition by tissue inhibitor of metalloproteinase-3 and a hydroxamate-based metalloproteinase inhibitor. <i>British Journal of Haematology</i> , 1998 , 101, 694-702	4.5	76
244	Expression of interleukin-1beta and tumour necrosis factor-alpha in plasma cells from patients with multiple myeloma. <i>British Journal of Haematology</i> , 1999 , 104, 350-7	4.5	75
243	Age related changes in biochemical markers of bone metabolism in horses. <i>Equine Veterinary Journal</i> , 1995 , 27, 201-7	2.4	72
242	Association of sporadic chondrocalcinosis with a -4-basepair G-to-A transition in the 5' untranslated region of ANKH that promotes enhanced expression of ANKH protein and excess generation of extracellular inorganic pyrophosphate. <i>Arthritis and Rheumatism</i> , 2005 , 52, 1110-7		69
241	Studies on type II collagen and aggrecan production in human articular chondrocytes in vitro and effects of transforming growth factor-beta and interleukin-1beta. <i>Osteoarthritis and Cartilage</i> , 1994 , 2, 235-45	6.2	68
240	Metabolism of halogenated bisphosphonates by the cellular slime mould <i>Dictyostelium discoideum</i> . <i>Biochemical and Biophysical Research Communications</i> , 1992 , 189, 414-23	3.4	68
239	Mode of action of dipyridamole on human platelets. <i>Thrombosis Research</i> , 1979 , 16, 367-79	8.2	67
238	Calcium and orthophosphate deposits in vitro do not imply osteoblast-mediated mineralization: mineralization by betaglycerophosphate in the absence of osteoblasts. <i>Bone</i> , 1990 , 11, 385-91	4.7	66

237	Protein synthesis is required for caspase activation and induction of apoptosis by bisphosphonate drugs. <i>Molecular Pharmacology</i> , 1998 , 54, 631-8	4.3	66
236	Effect of menopause and hormone replacement therapy on urinary excretion of pyridinium cross-links: a longitudinal and cross-sectional study. <i>Clinical Endocrinology</i> , 1992 , 37, 45-50	3.4	65
235	The effects of monocyte-conditioned medium and interleukin 1 on the synthesis of collagenous and non-collagenous proteins by mouse bone and human bone cells in vitro. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1984 , 801, 58-65	4	65
234	Synthesis and biological evaluation of alpha-halogenated bisphosphonate and phosphonocarboxylate analogues of risedronate. <i>Journal of Medicinal Chemistry</i> , 2007 , 50, 5967-75	8.3	64
233	Metabolism of inorganic pyrophosphate (PPi). <i>Arthritis and Rheumatism</i> , 1976 , 19 Suppl 3, 465-78		64
232	Effects of bovine parathyroid hormone and 1,25-dihydroxyvitamin D3 on the production of prostaglandins by cells derived from human bone. <i>FEBS Letters</i> , 1984 , 169, 49-52	3.8	63
231	Relation between alkaline phosphatase and Ca ²⁺ -ATPase in calcium transport. <i>Nature: New Biology</i> , 1972 , 240, 126-7		63
230	Novel mutations in ACVR1 result in atypical features in two fibrodysplasia ossificans progressiva patients. <i>PLoS ONE</i> , 2009 , 4, e5005	3.7	62
229	Changes in the renal and extrarenal handling of phosphate induced by disodium etidronate (EHDP) in man. <i>Clinical Science and Molecular Medicine</i> , 1975 , 49, 45-56		62
228	Reduced colon cancer incidence and mortality in postmenopausal women treated with an oral bisphosphonate--Danish National Register Based Cohort Study. <i>Osteoporosis International</i> , 2012 , 23, 2693-701	5.3	61
227	Determinants of structure-function relationships among bisphosphonates. <i>Bone</i> , 2007 , 40, S21-S25	4.7	61
226	Pathogenesis of chondrocalcinosis and pseudogout. Metabolism of inorganic pyrophosphate and production of calcium pyrophosphate dihydrate crystals. <i>Annals of the Rheumatic Diseases</i> , 1983 , 42 Suppl 1, 27-37	2.4	60
225	The influence of disodium ethane-1-hydroxy-1,1-diphosphonate (EHDP) on the development of experimentally induced urinary stones in rats. <i>Clinical Science</i> , 1972 , 42, 197-207		60
224	Human myeloma cells promote the production of interleukin 6 by primary human osteoblasts. <i>British Journal of Haematology</i> , 2000 , 108, 383-90	4.5	59
223	Isolation of inorganic pyrophosphate from bovine and human teeth. <i>Archives of Oral Biology</i> , 1968 , 13, 683-96	2.8	59
222	Treatment of myositis ossificans progressiva with a diphosphonate. <i>Lancet, The</i> , 1972 , 1, 10-1	4.0	59
221	Pharmacology of bisphosphonates. <i>British Journal of Clinical Pharmacology</i> , 2019 , 85, 1052-1062	3.8	59
220	Design, Synthesis, and Antimicrobial Evaluation of a Novel Bone-Targeting Bisphosphonate-Ciprofloxacin Conjugate for the Treatment of Osteomyelitis Biofilms. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 2326-2343	8.3	58

219	Inhibitory effects of bisphosphonates on growth of amoebae of the cellular slime mold <i>Dictyostelium discoideum</i> . <i>Journal of Bone and Mineral Research</i> , 1994 , 9, 1029-39	6.3	58
218	Inhibition of growth of <i>Dictyostelium discoideum</i> amoebae by bisphosphonate drugs is dependent on cellular uptake. <i>Pharmaceutical Research</i> , 1997 , 14, 625-30	4.5	58
217	Biochemical and clinical responses to dichloromethylene diphosphonate (Cl ₂ MDP) in Paget's disease of bone. <i>Arthritis and Rheumatism</i> , 1980 , 23, 1185-92		58
216	Spinal cord dysfunction in Paget's disease of bone. Has medical treatment a vascular basis?. <i>Journal of Bone and Joint Surgery: British Volume</i> , 1981 , 63B, 495-503		57
215	Human osteoblastlike cells do not respond to interleukin-6. <i>Journal of Bone and Mineral Research</i> , 1991 , 6, 141-8	6.3	53
214	A study of intracellular orthophosphate concentration in human muscle and erythrocytes by ³¹ P nuclear magnetic resonance spectroscopy and selective chemical assay. <i>Clinical Science</i> , 1986 , 71, 729-35	6.5	53
213	Interleukin 1 preferentially stimulates the production of tissue-type plasminogen activator by human articular chondrocytes. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1987 , 924, 473-82	4	53
212	Selective inhibition of Rab prenylation by a phosphonocarboxylate analogue of risedronate induces apoptosis, but not S-phase arrest, in human myeloma cells. <i>International Journal of Cancer</i> , 2006 , 119, 1254-61	7.5	52
211	Chondrogenesis in the regenerating antler tip in red deer: expression of collagen types I, IIA, IIB, and X demonstrated by in situ nucleic acid hybridization and immunocytochemistry. <i>Developmental Dynamics</i> , 1996 , 205, 332-47	2.9	52
210	The effect of tumor necrosis factor alpha and gamma-interferon on the resorption of human articular cartilage and on the production of prostaglandin E and of caseinase activity by human articular chondrocytes. <i>Arthritis and Rheumatism</i> , 1989 , 32, 780-4		52
209	Influence of dichloromethylene diphosphonate (Cl ₂ MDP) and calcitonin on bone resorption, lactate production and phosphatase and pyrophosphatase content of mouse calvaria treated with parathyroid hormone in vitro. <i>Calcified Tissue Research</i> , 1973 , 13, 287-94		52
208	Diagnosis and Management of Paget's Disease of Bone in Adults: A Clinical Guideline. <i>Journal of Bone and Mineral Research</i> , 2019 , 34, 579-604	6.3	51
207	Immortalization of human marrow stromal cells by retroviral transduction with a temperature sensitive oncogene: identification of bipotential precursor cells capable of directed differentiation to either an osteoblast or adipocyte phenotype. <i>Bone</i> , 1998 , 22, 7-16	4.7	50
206	Cloning of a fragment of the osteonectin gene from goldfish, <i>Carassius auratus</i> : its expression and potential regulation by estrogen. <i>General and Comparative Endocrinology</i> , 1999 , 114, 80-7	3	50
205	Structure-activity relationships of new heterocycle-containing bisphosphonates as inhibitors of bone resorption and as inhibitors of growth of <i>Dictyostelium discoideum</i> amoebae. <i>Molecular Pharmacology</i> , 1995 , 47, 398-402	4.3	50
204	The response of the skeleton to physical training: a biochemical study in horses. <i>Bone</i> , 1995 , 17, 221-7	4.7	48
203	Fluorescently labeled risedronate and related analogues: "magic linker" synthesis. <i>Bioconjugate Chemistry</i> , 2008 , 19, 2308-10	6.3	47
202	Characterization of collagenase, other metallo-proteinases and an inhibitor (TIMP) produced by human synovium and cartilage in culture. <i>Clinical Science</i> , 1981 , 61, 711-6	6.5	47

201	Relationship between pyrophosphate, amorphous calcium phosphate and other factors in the sequence of calcification in vivo. <i>Calcified Tissue Research</i> , 1972 , 10, 198-206		47
200	Esophageal and gastric cancer incidence and mortality in alendronate users. <i>Journal of Bone and Mineral Research</i> , 2012 , 27, 679-86	6.3	46
199	Production of collagenase and inhibitor (TIMP) by normal, rheumatoid and osteoarthritic synovium in vitro: effects of hydrocortisone and indomethacin. <i>Clinical Science</i> , 1981 , 61, 703-10	6.5	46
198	Changes in histologic and biochemical indexes of bone turnover after bilateral nephrectomy in patients on hemodialysis. Evidence for a possible role of endogenous calcitonin. <i>New England Journal of Medicine</i> , 1977 , 296, 1073-9	59.2	45
197	A review of the physiological and pharmacological effects of pyrophosphate and diphosphonates on bones and teeth. <i>Journal of Dental Research</i> , 1972 , 51, 324-32	8.1	45
196	Regulation of bim in glucocorticoid-mediated osteoblast apoptosis. <i>Journal of Cellular Physiology</i> , 2008 , 215, 488-96	7	44
195	Stimulation of cartilage resorption by extracellular ATP acting at P2-purinoceptors. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1994 , 1201, 298-304	4	44
194	Treatment of malignant hypercalcaemia with clodronate. <i>British Journal of Cancer</i> , 1985 , 51, 665-9	8.7	44
193	Diclofenac sodium inhibits bone resorption in postmenopausal women. <i>American Journal of Medicine</i> , 1994 , 96, 349-53	2.4	43
192	Ultrastructural features of the osteoclasts from Paget's disease of bone in relation to a viral aetiology. <i>Journal of Clinical Pathology</i> , 1982 , 35, 771-9	3.9	43
191	Risedronate in adults with osteogenesis imperfecta type I: increased bone mineral density and decreased bone turnover, but high fracture rate persists. <i>Osteoporosis International</i> , 2012 , 23, 285-94	5.3	42
190	Molecular characterization of a novel geranylgeranyl pyrophosphate synthase from Plasmodium parasites. <i>Journal of Biological Chemistry</i> , 2011 , 286, 3315-22	5.4	42
189	Interleukin-6 is expressed by plasma cells from patients with multiple myeloma and monoclonal gammopathy of undetermined significance. <i>British Journal of Haematology</i> , 1998 , 101, 287-95	4.5	42
188	Evidence for the presence of P2-purinoceptors at the surface of human articular chondrocytes in monolayer culture. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1991 , 1074, 151-8	4	42
187	Effects of epoxyethano analogues of prostaglandin endoperoxides on aggregation, on release of 5-hydroxytryptamine and on the metabolism of 3',5'-cyclic AMP and cyclic GMP in human platelets. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1979 , 583, 344-51	4	42
186	The role of inhibitors and other factors in the pathogenesis of recurrent calcium-containing renal stones. <i>Clinical Science and Molecular Medicine</i> , 1977 , 53, 141-8		41
185	Constitutive and inducible expression of HLA class II determinants by human osteoblast-like cells in vitro. <i>Journal of Clinical Investigation</i> , 1990 , 85, 1421-6	15.9	41
184	Metabolism of 25-hydroxycholecalciferol in a teleost fish, the rainbow trout (<i>Salmo gairdneri</i>). <i>General and Comparative Endocrinology</i> , 1986 , 64, 143-50	3	40

183	Extracellular ATP and UTP stimulate cartilage proteoglycan and collagen accumulation in bovine articular chondrocyte pellet cultures. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2000 , 1502, 297-306	6.9	39
182	THE EFFECT OF ORAL PHOSPHATE IN PATIENTS WITH RECURRENT RENAL CALCULUS. <i>British Journal of Urology</i> , 1965 , 37, 390-8		39
181	The urinary excretion of inorganic pyrophosphate by normal subjects and patients with renal calculus. <i>Clinical Science</i> , 1966 , 31, 51-62		38
180	An estimate of the turnover rate of bone-derived plasma alkaline phosphatase in Paget's disease. <i>Clinica Chimica Acta</i> , 1975 , 63, 227-9	6.2	37
179	Fluorescent Bisphosphonate and Carboxyphosphonate Probes: A Versatile Imaging Toolkit for Applications in Bone Biology and Biomedicine. <i>Bioconjugate Chemistry</i> , 2016 , 27, 329-40	6.3	36
178	Cells cultured from the growing tip of red deer antler express alkaline phosphatase and proliferate in response to insulin-like growth factor-I. <i>Journal of Endocrinology</i> , 1994 , 143, R9-16	4.7	36
177	Targeting a uniquely nonspecific prenyl synthase with bisphosphonates to combat cryptosporidiosis. <i>Chemistry and Biology</i> , 2008 , 15, 1296-306		35
176	Independent induction of interleukin 6 and prostaglandin E2 by interleukin 1 in human articular chondrocytes. <i>Biochemical and Biophysical Research Communications</i> , 1990 , 166, 1163-70	3.4	35
175	Calcium in mineralized tissues and pathological calcification. <i>British Medical Bulletin</i> , 1986 , 42, 435-46	5.4	35
174	Bisphosphonate binding affinity affects drug distribution in both intracortical and trabecular bone of rabbits. <i>Calcified Tissue International</i> , 2012 , 90, 202-10	3.9	34
173	The effects of recombinant human granulocyte-macrophage colony-stimulating factor (rhGM-CSF) on human osteoblast-like cells. <i>Biochemical and Biophysical Research Communications</i> , 1989 , 160, 588-95	3.4	34
172	URINARY PYROPHOSPHATE AND UROLITHIASIS. <i>Lancet, The</i> , 1964 , 2, 1446	4.0	34
171	Zoledronate Attenuates Accumulation of DNA Damage in Mesenchymal Stem Cells and Protects Their Function. <i>Stem Cells</i> , 2016 , 34, 756-67	5.8	34
170	Eliminating the need for fasting with oral administration of bisphosphonates. <i>Therapeutics and Clinical Risk Management</i> , 2013 , 9, 395-402	2.9	33
169	Effective short term treatment of Paget's disease with oral etidronate. <i>British Medical Journal</i> , 1986 , 292, 79-80		33
168	Effects of intravenous diphosphonates on renal function. <i>Lancet, The</i> , 1983 , 1, 1328	4.0	33
167	Formation of calcium pyrophosphate crystals in vitro: implications for calcium pyrophosphate crystal deposition disease (pseudogout). <i>Annals of the Rheumatic Diseases</i> , 1980 , 39, 222-7	2.4	33
166	GGPS1 Mutation and Atypical Femoral Fractures with Bisphosphonates. <i>New England Journal of Medicine</i> , 2017 , 376, 1794-1795	59.2	32

165	Risedronate does not reduce mechanical loading-related increases in cortical and trabecular bone mass in mice. <i>Bone</i> , 2011 , 49, 133-9	4.7	32
164	Effects of the anabolic steroid stanozolol on cells derived from human bone. <i>Clinical Science</i> , 1988 , 74, 455-60	6.5	32
163	Inhibition of interleukin-1-induced collagenase production in human articular chondrocytes in vitro by recombinant human interferon-gamma. <i>Arthritis and Rheumatism</i> , 1990 , 33, 1733-8		31
162	A technique for the measurement of orthophosphate in human erythrocytes, and some studies of its determinants. <i>Clinical Science</i> , 1985 , 69, 429-34	6.5	31
161	The comparative effects of vitamin d deficiency and ethane-1-hydroxy-1,1-diphosphonate administration on the histology and glycolysis of chick epiphyseal and articular cartilage. <i>Calcified Tissue Research</i> , 1975 , 19, 139-52		31
160	Evidence that endogenous calcitonin protects against renal bone disease. <i>Lancet, The</i> , 1976 , 2, 1322-6	4.0	31
159	Study of burn toxins. <i>Annals of the New York Academy of Sciences</i> , 1968 , 150, 807-15	6.5	31
158	The potent bisphosphonate ibandronate does not induce myeloma cell apoptosis in a murine model of established multiple myeloma. <i>British Journal of Haematology</i> , 2000 , 111, 283-6	4.5	31
157	Expression of type X collagen and matrix calcification in three-dimensional cultures of immortalized temperature-sensitive chondrocytes derived from adult human articular cartilage. <i>Journal of Bone and Mineral Research</i> , 1998 , 13, 432-42	6.3	30
156	Bradykinin stimulates the production of prostaglandin E2 and interleukin-6 in human osteoblast-like cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1992 , 1135, 97-102	4.9	30
155	The presence in normal plasma, serum and platelets of factors that stimulate the production of prostacyclin (PGI2) by cultured endothelial cells. <i>Clinical Science</i> , 1983 , 64, 387-94	6.5	30
154	The effect of 1,25-dihydroxycholecalciferol on renal tubular reabsorption of phosphate, intestinal absorption of calcium and bone histology in hypophosphataemic renal tubular rickets. <i>Clinical Science and Molecular Medicine</i> , 1975 , 48, 177-86		30
153	Natural human IL-1 beta exhibits regulatory actions on human bone-derived cells in vitro. <i>Biochemical and Biophysical Research Communications</i> , 1989 , 159, 1242-8	3.4	29
152	Retinoids and synovial factor(s) stimulate the production of plasminogen activator by cultured human chondrocytes. A possible role for plasminogen activator in the resorption of cartilage in vitro. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1985 , 838, 161-9	4	29
151	Cell-cell interactions in the rheumatoid joint. <i>Agents and Actions</i> , 1980 , 10, 486-90		29
150	Biochemical markers of bone turnover in Paget's disease. <i>Metabolic Bone Disease & Related Research</i> , 1981 , 3, 255-62		29
149	The inhibition of human farnesyl pyrophosphate synthase by nitrogen-containing bisphosphonates. Elucidating the role of active site threonine 201 and tyrosine 204 residues using enzyme mutants. <i>Bone</i> , 2015 , 81, 478-486	4.7	28
148	Molecular interactions of nitrogen-containing bisphosphonates within farnesyl diphosphate synthase. <i>Journal of Organometallic Chemistry</i> , 2005 , 690, 2679-2687	2.3	28

147	Effects of retinol and dexamethasone on cytokine-mediated control of metalloproteinases and their inhibitors by human articular chondrocytes and synovial cells in culture. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1983 , 763, 129-39	4.9	28
146	Paget's disease of bone. Experience with a diphosphonate (disodium etidronate) in treatment. <i>The Quarterly Journal of Medicine</i> , 1973 , 42, 235-56		28
145	Modulation of human chondrocyte metabolism by recombinant human interferon gamma: in-vitro effects on basal and IL-1-stimulated proteinase production, cartilage degradation and DNA synthesis. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1989 , 1012, 128-34	4.9	27
144	Renal osteodystrophy in nondialysed adolescents. Long-term treatment with 1alpha-hydroxycholecalciferol. <i>Archives of Disease in Childhood</i> , 1977 , 52, 473-81	2.2	27
143	The assessment of bone metabolism in vivo using biochemical approaches. <i>Hormone and Metabolic Research</i> , 1997 , 29, 138-44	3.1	26
142	Cathepsin B activity in normal human osteoblast-like cells and human osteoblastic osteosarcoma cells (MG-63): regulation by interleukin-1 beta and parathyroid hormone. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1996 , 1290, 29-36	4	26
141	Selective targeting of death receptor 5 circumvents resistance of MG-63 osteosarcoma cells to TRAIL-induced apoptosis. <i>Molecular Cancer Therapeutics</i> , 2007 , 6, 3219-28	6.1	25
140	The regulation of connective tissue metabolism by vasoactive intestinal polypeptide. <i>Regulatory Peptides</i> , 1992 , 37, 111-21		25
139	Pharmacological diversity among drugs that inhibit bone resorption. <i>Current Opinion in Pharmacology</i> , 2015 , 22, 115-30	5.1	24
138	Drug treatment of primary hyperparathyroidism: use of clodronate disodium. <i>British Medical Journal</i> , 1983 , 286, 587-90		24
137	Measurement of bone specific alkaline phosphatase in the horse: a comparison of two techniques. <i>Research in Veterinary Science</i> , 1996 , 61, 160-4	2.5	23
136	Effects of vitamin D metabolites and analogues on renal function. <i>Nephron</i> , 1981 , 28, 17-25	3.3	23
135	Incidence of fractures of the femur, including subtrochanteric, up to 8 years since initiation of oral bisphosphonate therapy: a register-based cohort study using the US MarketScan claims databases. <i>Osteoporosis International</i> , 2012 , 23, 2873-84	5.3	22
134	Modulation of ecto-nucleoside triphosphate pyrophosphatase activity of human osteoblast-like bone cells by 1 alpha,25-dihydroxyvitamin D3, 24R,25-dihydroxyvitamin D3, parathyroid hormone, and dexamethasone. <i>Journal of Bone and Mineral Research</i> , 1994 , 9, 1259-66	6.3	22
133	Proteoglycan breakdown from bovine nasal cartilage is increased, and from articular cartilage is decreased, by extracellular ATP. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 1997 , 1362, 208-20	6.9	22
132	Identification of ecto-nucleoside triphosphate pyrophosphatase in human articular chondrocytes in monolayer culture. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1985 , 847, 40-7	4.9	22
131	Properties of rheumatoid and normal synovial tissue in vitro and cells derived from them. Production of prostaglandins and collagenase in response to factors derived from cultured blood mononuclear cells and from synovium. <i>Rheumatology International</i> , 1982 , 2, 113-20	3.6	22
130	Transforming growth factor beta increases ecto-nucleoside triphosphate pyrophosphatase activity of human bone-derived cells. <i>Journal of Bone and Mineral Research</i> , 1994 , 9, 99-109	6.3	21

129	Anti-tumour activity of bisphosphonates in human myeloma cells. <i>Leukemia and Lymphoma</i> , 1998 , 32, 129-38	1.9	21
128	Evidence that ecto-nucleoside-triphosphate pyrophosphatase serves in the generation of extracellular inorganic pyrophosphate in human bone and articular cartilage. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1988 , 966, 310-7	4	21
127	The pathophysiology of hypercaemia. <i>Metabolic Bone Disease & Related Research</i> , 1980 , 2, 151-159		21
126	Messenger function of prostaglandins in cell to cell interactions and control of proteinase activity in the rheumatoid joint. <i>International Journal of Immunopharmacology</i> , 1982 , 4, 91-102		21
125	Dipyridamole and platelet function. <i>Lancet, The</i> , 1978 , 2, 846	40	21
124	Estrogen receptor mRNA in mineralized tissues of rainbow trout: calcium mobilization by estrogen. <i>FEBS Letters</i> , 1997 , 411, 145-8	3.8	20
123	Cyclosporin A. Mode of action and effects on bone and joint tissues. <i>Scandinavian Journal of Rheumatology</i> , 1992 , 95, 9-18	1.9	20
122	Detection of mRNA for the transforming growth factor beta family in human articular chondrocytes by the polymerase chain reaction. <i>Biochemical and Biophysical Research Communications</i> , 1991 , 180, 602-8	3.4	20
121	Normal activity of nucleoside triphosphate pyrophosphatase in alkaline phosphatase-deficient fibroblasts from patients with infantile hypophosphatasia. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1986 , 63, 1237-41	5.6	20
120	Physiology and pharmacological regulation of bone resorption. <i>Metabolic Bone Disease & Related Research</i> , 1980 , 2, 177-189		20
119	The influence of orthophosphate on the renal handling of inorganic pyrophosphate in man and dog. <i>Clinical Science and Molecular Medicine</i> , 1976 , 51, 435-43		20
118	The concentration of inorganic pyrophosphate in human saliva and dental calculus. <i>Archives of Oral Biology</i> , 1970 , 15, 1389-92	2.8	20
117	Bisphosphonates--mechanisms of action in multiple myeloma. <i>Acta Oncologica</i> , 2000 , 39, 829-35	3.2	19
116	Cloning of a novel membrane-linked metalloproteinase from human myeloma cells. <i>Biochemical Journal</i> , 1996 , 318 (Pt 2), 459-62	3.8	19
115	Interleukin-1 beta enhances the response of human articular chondrocytes to extracellular ATP. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1992 , 1137, 52-8	4.9	19
114	Nucleoside triphosphate pyrophosphatase of rabbit matrix vesicles, a mechanism for the generation of inorganic pyrophosphate in epiphyseal cartilage. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1987 , 924, 276-83	4	19
113	Paget's disease: improvement of spinal cord dysfunction with diphosphonates and calcitonin. <i>Metabolic Bone Disease & Related Research</i> , 1981 , 3, 327-35		19
112	Biochemical measurements in Paget's disease of bone. <i>European Journal of Clinical Investigation</i> , 1977 , 7, 37-9	4.6	19

111	The Pharmacological Profile of a Novel Highly Potent Bisphosphonate, OX14 (1-Fluoro-2-(Imidazo-[1,2-b]Pyridin-3-yl)-Ethyl-Bisphosphonate). <i>Journal of Bone and Mineral Research</i> , 2017 , 32, 1860-1869	6.3	18
110	Apomine, an inhibitor of HMG-CoA-reductase, promotes apoptosis of myeloma cells in vitro and is associated with a modulation of myeloma in vivo. <i>International Journal of Cancer</i> , 2007 , 120, 1657-63	7.5	18
109	Agonists of TRAIL death receptors induce myeloma cell apoptosis that is not prevented by cells of the bone marrow microenvironment. <i>Leukemia</i> , 2007 , 21, 805-12	10.7	18
108	Statins and bone: myth or reality?. <i>Calcified Tissue International</i> , 2001 , 69, 63-6	3.9	18
107	Induction of enhanced responsiveness of human articular chondrocytes to extracellular ATP by tumour necrosis factor-alpha. <i>Clinical Science</i> , 1993 , 85, 569-75	6.5	18
106	The effect of interleukin-1 on cytokine gene expression in cultured human articular chondrocytes analyzed by messenger RNA phenotyping. <i>Arthritis and Rheumatism</i> , 1993 , 36, 35-43		18
105	Partial purification of a factor from human synovium that possesses interleukin 1, chondrocyte stimulating and catabolin-like activities. <i>FEBS Letters</i> , 1985 , 179, 247-51	3.8	18
104	Radiometric measurement of pyrophosphate in cell cultures. <i>Biochemical Society Transactions</i> , 1980 , 8, 529-30	5.1	18
103	Stimulation of production of prostaglandin E in gingival cells exposed to products of human blood mononuclear cells. <i>Biochemical Journal</i> , 1981 , 198, 391-6		18
102	Pyrophosphate and diphosphonates in calcium metabolism and their possible role in renal failure. <i>Archives of Internal Medicine</i> , 1969 , 124, 571-7		18
101	The effect of transforming growth factor beta on the plasminogen activator activity of normal human osteoblast-like cells and a human osteosarcoma cell line MG-63. <i>Journal of Bone and Mineral Research</i> , 1992 , 7, 1363-71	6.3	17
100	An estimate of the endogenous secretion rate of calcitonin in man. <i>Clinical Science</i> , 1982 , 63, 145-52	6.5	17
99	Relation between bone mineralization, Ca absorption, and plasma Ca in phosphonate-treated rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1977 , 232, E298-305	6	17
98	Effect of high doses of oral risedronate (20 mg/day) on serum parathyroid hormone levels and urinary collagen cross-link excretion in postmenopausal women with spinal osteoporosis. <i>Bone</i> , 2001 , 28, 108-12	4.7	16
97	Urinary collagen crosslink excretion: a better index of bone resorption than hydroxyproline in Paget's disease of bone?. <i>Bone and Mineral</i> , 1993 , 22, 1-8		16
96	The effect of rat parathyroid hormone (1-34) infusion on urinary 3-hydroxypyridinium cross-link excretion in the rat. <i>Bone and Mineral</i> , 1992 , 19, 117-25		15
95	Parathyroid gland hormones in the skeletal development of the ovine foetus: the effect of parathyroidectomy with calcium and phosphate infusion. <i>Bone and Mineral</i> , 1992 , 16, 121-9		15
94	Contrasting effects of intravenous and oral etidronate on vitamin D metabolism in man. <i>Clinical Science</i> , 1988 , 74, 101-6	6.5	15

93	Urinary pyrophosphate excretion in renal stone formers with normal and impaired renal acidification. <i>World Journal of Urology</i> , 1983 , 1, 150-154	4	15
92	Enhanced production of prostaglandins and plasminogen activator during activation of human articular chondrocytes by products of mononuclear cells. <i>Rheumatology International</i> , 1984 , 4, 143-9	3.6	15
91	Homogeneous interferon-beta-inducing 25K factor (IL-1 beta) has connective tissue cell stimulating activities. <i>Biochemical and Biophysical Research Communications</i> , 1986 , 139, 1150-7	3.4	15
90	Physiological and therapeutic differences between vitamin D, its metabolites and analogues. <i>Clinical Endocrinology</i> , 1977 , 7 Suppl, 191s-201s	3.4	15
89	The effect of interleukin-1 on connective tissue metabolism and its relevance to arthritis. <i>Agents and Actions Supplements</i> , 1986 , 18, 131-52	0.2	15
88	Inorganic pyrophosphate and pyrophosphatases in calcification and calcium homeostasis. <i>Clinical Orthopaedics and Related Research</i> , 1970 , 69, 101-17	2.2	14
87	Agents affecting adenylate cyclase activity modulate the stimulatory action of 1,25-dihydroxyvitamin D3 on the production of osteocalcin by human bone cells. <i>Biochemical and Biophysical Research Communications</i> , 1989 , 164, 1076-85	3.4	13
86	Intercellular Messengers in Joint Tissues in Rheumatoid Arthritis. <i>Scandinavian Journal of Rheumatology</i> , 1981 , 10, 75-87	1.9	13
85	Adenylate cyclase of human articular chondrocytes. Responsiveness to prostaglandins and other hormones. <i>Biochemical Journal</i> , 1982 , 208, 35-42	3.8	13
84	Simulation of phosphate excretion by the renal arterial infusion of 3 β RAMP (cyclic AMP)-a possible mechanism of action of parathyroid hormone. <i>Calcified Tissue Research</i> , 1968 , 2, Suppl:54-54a		13
83	Immune cells and bone resorption. <i>Advances in Experimental Medicine and Biology</i> , 1986 , 208, 261-73	3.6	13
82	Potential therapeutic effects of oral bisphosphonates on the intestine. <i>Annals of the New York Academy of Sciences</i> , 2011 , 1240, E19-25	6.5	12
81	The relationship between the production of thromboxane B2 and malondialdehyde by human blood platelets. <i>Clinical Science</i> , 1980 , 59, 131-5	6.5	12
80	Possible function of different renal metabolites of vitamin D in man. <i>Contributions To Nephrology</i> , 1980 , 18, 192-211	1.6	12
79	Paget's disease of bone: diagnosis and management. <i>Metabolic Bone Disease & Related Research</i> , 1981 , 3, 219-30		12
78	The uptake and metabolism of (32-P)pyrophosphate by mouse calvaria in vitro. <i>Biochemical Journal</i> , 1974 , 140, 175-83		12
77	Functional Characterization of a GGPPS Variant Identified in Atypical Femoral Fracture Patients and Delineation of the Role of GGPPS in Bone-Relevant Cell Types. <i>Journal of Bone and Mineral Research</i> , 2018 , 33, 2091-2098	6.3	12
76	Osteonecrosis of the jaw: more heat than light. <i>Journal of Nuclear Medicine</i> , 2009 , 50, 6-7	8.9	11

75	32P-labelling anomalies in human erythrocytes. Is there more than one pool of cellular Pi?. <i>Biochemical Journal</i> , 1989 , 264, 729-36	3.8	11
74	Interleukin-1 stimulates diglyceride accumulation in the absence of protein kinase C activation. <i>Regulatory Peptides</i> , 1990 , 29, 109-16		11
73	Correlation of clinical, biochemical and skeletal responses to 1alpha-hydroxyvitamin D3 in renal bone disease. <i>Clinical Endocrinology</i> , 1977 , 7 Suppl, 45s-50s	3.4	11
72	Cellular regulatory mechanisms that may underlie the effects of corticosteroids on bone. <i>Rheumatology</i> , 1993 , 32 Suppl 2, 6-10	3.9	10
71	Interactive regulation of signalling pathways in bone cells: possible modulation of PGE2-stimulated adenylyl cyclase activity by protein kinase C. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1990 , 1052, 323-6	4.9	10
70	Effects of corticosteroids on cellular interactions in human joint tissues in culture. <i>Seminars in Arthritis and Rheumatism</i> , 1981 , 11, 138-139	5.3	10
69	The origin of inorganic pyrophosphate in urine. <i>Clinical Science</i> , 1969 , 37, 419-29		10
68	Pyrophosphate and diphosphonates in calcium metabolism and their possible role in renal failure. <i>Archives of Internal Medicine</i> , 1969 , 124, 571-577		10
67	Effects of transforming growth factor beta on the production of prostaglandin E and caseinase activity of unstimulated and interleukin 1-stimulated human articular chondrocytes in culture. <i>Rheumatology</i> , 1997 , 36, 729-34	3.9	9
66	Effects of transforming growth factor beta and interleukin-1 beta on [3H]thymidine incorporation by human articular chondrocytes in vitro. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 1994 , 1226, 193-200	6.9	9
65	The effect of age on bone collagen turnover as assessed by pyridinium crosslinks and procollagen I C-terminal peptide. <i>Osteoporosis International</i> , 1993 , 3 Suppl 1, 100-1	5.3	9
64	Effect of aspirin on urinary excretion of 6-ketoprostaglandin F1 alpha. <i>Clinical Science</i> , 1983 , 64, 395-8	6.5	9
63	Abnormal vitamin D metabolism in Paget's disease of bone. <i>Clinical Endocrinology</i> , 1985 , 22, 559-66	3.4	9
62	Cellular phosphate metabolism in patients receiving bisphosphonate therapy. <i>Bone</i> , 1986 , 7, 255-9	4.7	9
61	Effect of diphosphonates on adenosine 3',5'-cyclic monophosphate in mouse calvaria after stimulation by parathyroid hormone in vitro. <i>Clinical Science and Molecular Medicine</i> , 1976 , 50, 473-8		9
60	Apomine enhances the antitumor effects of lovastatin on myeloma cells by down-regulating 3-hydroxy-3-methylglutaryl-coenzyme A reductase. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2007 , 322, 228-35	4.7	8
59	Cytokines: inflammatory mediators of joint disease. <i>Equine Veterinary Journal</i> , 1992 , 24, 78-80	2.4	8
58	Extracellular ATP stimulates resorption of bovine nasal cartilage. <i>Biochemical Society Transactions</i> , 1990 , 18, 951-2	5.1	8

57	Regulation of phosphate metabolism in human red cells following prolonged incubation to steady state in vitro. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1988 , 969, 139-47	4.9	8
56	Net fluxes of orthophosphate across the plasma membrane in human red cells following alteration of pH and extracellular Pi concentration. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1988 , 969, 148-57	4.9	8
55	Studies of the growth of human bone-derived cells in culture using aqueous two-phase partition. <i>Bioscience Reports</i> , 1984 , 4, 415-9	4.1	8
54	Phosphate metabolism in erythrocytes of critically ill patients. <i>Clinical Science</i> , 1985 , 69, 435-40	6.5	8
53	Strontium ions stimulate phosphoinositide metabolism in human blood platelets. <i>FEBS Letters</i> , 1981 , 134, 88-90	3.8	8
52	The role of vitamin D metabolites in the osteomalacia of renal disease. <i>Current Medical Research and Opinion</i> , 1981 , 7, 294-315	2.5	8
51	Influence of pyrophosphate on the crystallisation of uric acid and magnesium ammonium phosphate and its implications in phosphate therapy for urolithiasis. <i>Urologia Internationalis</i> , 1967 , 22, 483-91	1.9	8
50	Effects of 24,25-dihydroxy-vitamin D3 on its plasma level in man. <i>Metabolic Bone Disease & Related Research</i> , 1981 , 3, 155-8		7
49	The urinary excretion of inorganic pyrophosphate in hyperparathyroidism, hyperthyroidism, Paget's disease and other disorders of bone metabolism. <i>Clinical Science</i> , 1969 , 36, 435-43		7
48	2009 Santa Fe Bone symposium. <i>Journal of Clinical Densitometry</i> , 2010 , 13, 1-9	3.5	6
47	Frequencies of HLA-A and HLA-B histocompatibility antigens in Paget's disease of bone. <i>Tissue Antigens</i> , 1976 , 7, 55-6		6
46	The biological effects of 1, 24, 25-Trihydroxyvitamin D3 in man. <i>Metabolic Bone Disease & Related Research</i> , 1979 , 1, 295-298		6
45	Loss of metacarpal and iliac bone in chronic renal failure: influence of haemodialysis, parathyroid activity, type of renal disease, physical activity and heparin consumption. <i>Clinical Science</i> , 1979 , 56, 317-24	6.5	6
44	Lanthanum stimulates the accumulation of cyclic AMP and inhibits secretion and thromboxane B2 formation in human platelets. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1980 , 632, 336-42	4	6
43	Evidence for the involvement of microtubules in the ADP-induced secretion in platelet 14C-5-hydroxytryptamine. <i>Thrombosis Research</i> , 1981 , 22, 525-33	8.2	6
42	Regulation of calcium metabolism. <i>Annals of Clinical Biochemistry</i> , 1976 , 13, 518-39	2.2	6
41	The possible role of calcitonin deficiency in the development of bone disease due to chronic renal failure. <i>Calcified Tissue Research</i> , 1977 , 22 Suppl, 147-53		6
40	Cells cultured from human giant cell tumors of bone respond to parathyroid hormone. <i>Calcified Tissue Research</i> , 1977 , 22 Suppl, 269-74		6

39	The cellular mechanism of action of bisphosphonates. <i>Drugs Under Experimental and Clinical Research</i> , 1991 , 17, 109-14		6
38	Stimulation of prostaglandin biosynthesis induced by mononuclear cell factor added to cells from human gingiva, cartilage, synovium, and endometrium. <i>Advances in Prostaglandin and Thromboxane Research</i> , 1980 , 8, 1709-11		6
37	Pyrophosphate, phosphonates and pyrophosphatases in the regulation of calcification and calcium homeostasis. <i>Journal of the Royal Society of Medicine</i> , 1970 , 63, 876		6
36	Osteoporosis: pathogenesis and clinical intervention. <i>Biochemical Society Transactions</i> , 2003 , 31, 462-4	5.1	5
35	Selective extraction, concentration, and assay of orthophosphate from microliter quantities of cultured mammalian cells. <i>Analytical Biochemistry</i> , 1989 , 181, 130-4	3.1	5
34	Theoretical interpretation of isotope labelling experiments in cells in which the label is chemically incorporated: the example of orthophosphate. <i>Journal of Theoretical Biology</i> , 1988 , 134, 351-64	2.3	5
33	Evidence that extracellular calcium ions inhibit thromboxane B ₂ biosynthesis by human platelets. <i>Biochemical and Biophysical Research Communications</i> , 1979 , 90, 1179-85	3.4	5
32	A factor from mononuclear cells stimulates prostaglandin E production by human gingival cells. <i>Biochemical Society Transactions</i> , 1980 , 8, 527-8	5.1	5
31	cDNA cloning and characterization of a rat spermatogenesis-associated protein RSP29. <i>Biochemical and Biophysical Research Communications</i> , 1997 , 241, 714-9	3.4	4
30	Phosphoinositide metabolism in human blood platelets: effects of two types of divalent cation chelators. <i>Thrombosis Research</i> , 1982 , 26, 241-7	8.2	4
29	The effects of cyclosporin A on bone and cartilage. <i>British Journal of Rheumatology</i> , 1993 , 32 Suppl 1, 42-6		4
28	Biochemical measurements in Paget's disease of bone. <i>Seminars in Arthritis and Rheumatism</i> , 1994 , 23, 240-1	5.3	3
27	Calcitropic hormones raise the chemically detectable [Pi] in UMR 106-06 osteoblast-like cells. <i>Cell Biochemistry and Function</i> , 1993 , 11, 25-34	4.2	3
26	Functional compartmentation of cellular orthophosphate in human erythrocytes revealed by ³² P labelling. <i>Biochemical Society Transactions</i> , 1988 , 16, 781-782	5.1	3
25	Comparative effects of an antiviral drug, inosiplex, and diphosphonates in Paget's disease of bone. <i>Bone</i> , 1985 , 6, 69-72	4.7	3
24	Factors influencing the response to 1 α -hydroxyvitamin D ₃ in patients with renal bone disease. <i>Clinical Endocrinology</i> , 1977 , 7 Suppl, 51s-57s	3.4	3
23	Developments in the synthesis of new functionalized bisphosphonate drug candidates such as cyclic prodrugs. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2016 , 191, 1504-1508	1	3
22	Measurement of intracellular inorganic phosphate in human blood red cells, leucocytes and platelets. <i>Advances in Experimental Medicine and Biology</i> , 1982 , 151, 137-46	3.6	3

21	Factors controlling the intracellular concentration of orthophosphate (Pi) in mammalian cells. <i>Advances in Experimental Medicine and Biology</i> , 1986 , 208, 469-78	3.6	3
20	Physiological and pharmacological aspects of 24,25-dihydroxycholecalciferol in man. <i>Advances in Experimental Medicine and Biology</i> , 1978 , 103, 487-503	3.6	3
19	Hypophosphatasia and the Extracellular Metabolism of Inorganic Pyrophosphate: Clinical and Laboratory Aspects. <i>Critical Reviews in Clinical Laboratory Sciences</i> , 1991 , 28, 195-232	9.4	2
18	An index to quantify the apparent regulation of orthophosphate concentration in mammalian cells. <i>Biochemical Society Transactions</i> , 1989 , 17, 124-125	5.1	2
17	Differential sensitivity to trypsin of human bone-derived cells in culture: surface changes detected by partitioning in aqueous two-phase systems. <i>Cell Biochemistry and Function</i> , 1986 , 4, 47-54	4.2	2
16	Diphosphonates and paget's disease of bone. <i>Metabolic Bone Disease & Related Research</i> , 1981 , 3, 217		2
15	An ultrastructural study of alkaline phosphatase in a transplantable rat osteogenic sarcoma. <i>Metabolic Bone Disease & Related Research</i> , 1983 , 5, 23-31		2
14	Histological measurements in Paget's disease of bone. <i>Calcified Tissue Research</i> , 1977 , 22 Suppl, 295-7		2
13	24,25-Dihydroxycholecalciferol and calcium absorption in uraemia. <i>The BMJ</i> , 1979 , 1, 822		2
12	Herbert Andre Fleisch, MD. <i>Journal of Bone and Mineral Research</i> , 2007 , 22, 1651-3	6.3	1
11	The effect of suramin on the resorption of bovine nasal cartilage. <i>Inflammopharmacology</i> , 1999 , 7, 387-400		1
10	The effect of interleukin-1 and transforming growth factor β on cathepsin B activity in human articular chondrocytes. <i>Agents and Actions</i> , 1994 , 41, C198-C200		1
9	Orthophosphate fluxes in human red cells in response to pH change. <i>Biochemical Society Transactions</i> , 1986 , 14, 1193-1194	5.1	1
8	The effects of strontium and calcium ions on 5-hydroxytryptamine secretion and thromboxane B2 biosynthesis in washed human platelets. <i>Biochemical Society Transactions</i> , 1980 , 8, 530-1	5.1	1
7	The use of diphosphonates in myeloma. <i>British Journal of Haematology</i> , 1983 , 53, 688-90	4.5	1
6	High affinity calcium binding peptides from the gills, gut and kidneys of the freshwater eel (<i>Anguilla anguilla</i>). <i>Biochimica Et Biophysica Acta (BBA) - Protein Structure</i> , 1978 , 536, 429-32		1
5	Effect of a mononuclear-cell factor on prostaglandin production by cells cultured from human gingiva, synovium, cartilage and endometrium [proceedings]. <i>Biochemical Society Transactions</i> , 1979 , 7, 982-3	5.1	1
4	Bisphosphonates and colon cancer: reply. <i>Osteoporosis International</i> , 2013 , 24, 1141-2	5.3	

- 3 Parathyroid hormone raises the Pi concentration in a cultured osteoblast model. *Biochemical Society Transactions*, **1990**, 18, 1010-1 5.1
- 2 Osteomalacia in renal disease. *Lancet, The*, **1980**, 1, 488-9 40
- 1 Prostaglandins and breast cancer. *Lancet, The*, **1977**, 2, 829 40