

Frank Rauch

List of Publications by Citations

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

366
papers

17,557
citations

72
h-index

118
g-index

387
ext. papers

19,820
ext. citations

4.7
avg, IF

6.69
L-index

#	Paper	IF	Citations
366	Loss of DMP1 causes rickets and osteomalacia and identifies a role for osteocytes in mineral metabolism. <i>Nature Genetics</i> , 2006 , 38, 1310-5	36.3	937
365	Osteogenesis imperfecta. <i>Lancet, The</i> , 2004 , 363, 1377-85	4.0	914
364	CRTAP is required for prolyl 3- hydroxylation and mutations cause recessive osteogenesis imperfecta. <i>Cell</i> , 2006 , 127, 291-304	56.2	394
363	Type V osteogenesis imperfecta: a new form of brittle bone disease. <i>Journal of Bone and Mineral Research</i> , 2000 , 15, 1650-8	6.3	357
362	The muscle-bone unit during the pubertal growth spurt. <i>Bone</i> , 2004 , 34, 771-5	4.7	287
361	Osteogenesis imperfecta type VI: a form of brittle bone disease with a mineralization defect. <i>Journal of Bone and Mineral Research</i> , 2002 , 17, 30-8	6.3	275
360	Normative data for iliac bone histomorphometry in growing children. <i>Bone</i> , 2000 , 26, 103-9	4.7	259
359	Static and dynamic bone histomorphometry in children with osteogenesis imperfecta. <i>Bone</i> , 2000 , 26, 581-9	4.7	245
358	Structural and cellular changes during bone growth in healthy children. <i>Bone</i> , 2000 , 27, 487-94	4.7	220
357	The effects of intravenous pamidronate on the bone tissue of children and adolescents with osteogenesis imperfecta. <i>Journal of Clinical Investigation</i> , 2002 , 110, 1293-1299	15.9	205
356	The development of bone strength at the proximal radius during childhood and adolescence. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2001 , 86, 613-8	5.6	203
355	Bone densities and bone size at the distal radius in healthy children and adolescents: a study using peripheral quantitative computed tomography. <i>Bone</i> , 2001 , 28, 227-32	4.7	203
354	Bone mineral content per muscle cross-sectional area as an index of the functional muscle-bone unit. <i>Journal of Bone and Mineral Research</i> , 2002 , 17, 1095-101	6.3	197
353	The developing bone: slave or master of its cells and molecules?. <i>Pediatric Research</i> , 2001 , 50, 309-14	3.2	192
352	Pamidronate treatment of severe osteogenesis imperfecta in children under 3 years of age. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2000 , 85, 1846-50	5.6	192
351	Osteogenesis imperfecta type VII: an autosomal recessive form of brittle bone disease. <i>Bone</i> , 2002 , 31, 12-8	4.7	189
350	Delayed osteotomy but not fracture healing in pediatric osteogenesis imperfecta patients receiving pamidronate. <i>Journal of Bone and Mineral Research</i> , 2004 , 19, 1779-86	6.3	170

349	Official Positions of the International Society for Clinical Densitometry and executive summary of the 2007 ISCD Pediatric Position Development Conference. <i>Journal of Clinical Densitometry</i> , 2008 , 11, 6-21	3.5	166
348	Effect of pamidronate treatment in children with polyostotic fibrous dysplasia of bone. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2003 , 88, 4569-75	5.6	163
347	Reporting whole-body vibration intervention studies: recommendations of the International Society of Musculoskeletal and Neuronal Interactions. <i>Journal of Musculoskeletal Neuronal Interactions</i> , 2010 , 10, 193-8	1.3	162
346	Modeling of cross-sectional bone size, mass and geometry at the proximal radius: a study of normal bone development using peripheral quantitative computed tomography. <i>Osteoporosis International</i> , 2001 , 12, 538-47	5.3	161
345	Changes in bone density during childhood and adolescence: an approach based on bone's biological organization. <i>Journal of Bone and Mineral Research</i> , 2001 , 16, 597-604	6.3	161
344	Alendronate for the treatment of pediatric osteogenesis imperfecta: a randomized placebo-controlled study. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2011 , 96, 355-64	5.6	157
343	Advanced vertebral fracture among newly diagnosed children with acute lymphoblastic leukemia: results of the Canadian Steroid-Associated Osteoporosis in the Pediatric Population (STOPP) research program. <i>Journal of Bone and Mineral Research</i> , 2009 , 24, 1326-34	6.3	151
342	Height and weight development during four years of therapy with cyclical intravenous pamidronate in children and adolescents with osteogenesis imperfecta types I, III, and IV. <i>Pediatrics</i> , 2003 , 111, 1030-6	7.4	145
341	Mutations in WNT1 are a cause of osteogenesis imperfecta. <i>Journal of Medical Genetics</i> , 2013 , 50, 345-8	5.8	141
340	Mutations in SERPINF1 cause osteogenesis imperfecta type VI. <i>Journal of Bone and Mineral Research</i> , 2011 , 26, 2798-803	6.3	141
339	Bone mass, size, and density in children and adolescents with osteogenesis imperfecta: effect of intravenous pamidronate therapy. <i>Journal of Bone and Mineral Research</i> , 2003 , 18, 610-4	6.3	141
338	Vertebral morphometry in children and adolescents with osteogenesis imperfecta: effect of intravenous pamidronate treatment. <i>Bone</i> , 2006 , 39, 901-6	4.7	118
337	The development of metaphyseal cortex—implications for distal radius fractures during growth. <i>Journal of Bone and Mineral Research</i> , 2001 , 16, 1547-55	6.3	118
336	Gender-specific pubertal changes in volumetric cortical bone mineral density at the proximal radius. <i>Bone</i> , 2002 , 31, 110-3	4.7	118
335	Effects of intravenous pamidronate treatment in infants with osteogenesis imperfecta: clinical and histomorphometric outcome. <i>Journal of Bone and Mineral Research</i> , 2005 , 20, 1235-43	6.3	114
334	Heart, brain, and body wall defects in mice lacking calreticulin. <i>Experimental Cell Research</i> , 2000 , 256, 105-11	4.2	113
333	Temporal and spatial expression of bone morphogenetic protein-2, -4, and -7 during distraction osteogenesis in rabbits. <i>Bone</i> , 2000 , 27, 453-9	4.7	112
332	Osteogenesis imperfecta types I, III, and IV: effect of pamidronate therapy on bone and mineral metabolism. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2003 , 88, 986-92	5.6	111

331	Fracture prediction and the definition of osteoporosis in children and adolescents: the ISCD 2007 Pediatric Official Positions. <i>Journal of Clinical Densitometry</i> , 2008 , 11, 22-8	3.5	105
330	Prevalent vertebral fractures among children initiating glucocorticoid therapy for the treatment of rheumatic disorders. <i>Arthritis Care and Research</i> , 2010 , 62, 516-26	4.7	104
329	Influence of puberty on muscle development at the forearm. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2002 , 283, E103-7	6	104
328	Incident vertebral fractures among children with rheumatic disorders 12 months after glucocorticoid initiation: a national observational study. <i>Arthritis Care and Research</i> , 2012 , 64, 122-31	4.7	103
327	Skeletal development in premature infants: a review of bone physiology beyond nutritional aspects. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , 2002 , 86, F82-5	4.7	103
326	Osteogenesis imperfecta in children and adolescents-new developments in diagnosis and treatment. <i>Osteoporosis International</i> , 2016 , 27, 3427-3437	5.3	102
325	Bone growth in length and width: the Yin and Yang of bone stability. <i>Journal of Musculoskeletal Neuronal Interactions</i> , 2005 , 5, 194-201	1.3	100
324	The Determinants of Peak Bone Mass. <i>Journal of Pediatrics</i> , 2017 , 180, 261-269	3.6	99
323	High incidence of vertebral fractures in children with acute lymphoblastic leukemia 12 months after the initiation of therapy. <i>Journal of Clinical Oncology</i> , 2012 , 30, 2760-7	2.2	98
322	Special report on the 2007 adult and pediatric Position Development Conferences of the International Society for Clinical Densitometry. <i>Osteoporosis International</i> , 2008 , 19, 1369-78	5.3	97
321	The use of intravenous bisphosphonate therapy to treat vertebral fractures due to osteoporosis among boys with Duchenne muscular dystrophy. <i>Osteoporosis International</i> , 2012 , 23, 2703-11	5.3	95
320	Evidence that abnormal high bone mineralization in growing children with osteogenesis imperfecta is not associated with specific collagen mutations. <i>Calcified Tissue International</i> , 2008 , 82, 263-70	3.9	95
319	Long-bone changes after pamidronate discontinuation in children and adolescents with osteogenesis imperfecta. <i>Bone</i> , 2007 , 40, 821-7	4.7	93
318	Osteogenesis imperfecta--clinical and molecular diversity. <i>European Cells and Materials</i> , 2003 , 5, 41-7; discussion 47	4.3	93
317	Muscle analysis by measurement of maximal isometric grip force: new reference data and clinical applications in pediatrics. <i>Pediatric Research</i> , 2002 , 51, 505-10	3.2	89
316	Osteogenesis imperfecta type V: marked phenotypic variability despite the presence of the IFITM5 c.-14C>T mutation in all patients. <i>Journal of Medical Genetics</i> , 2013 , 50, 21-4	5.8	87
315	DNA sequence analysis in 598 individuals with a clinical diagnosis of osteogenesis imperfecta: diagnostic yield and mutation spectrum. <i>Osteoporosis International</i> , 2016 , 27, 3607-3613	5.3	85
314	The effects of intravenous pamidronate on the bone tissue of children and adolescents with osteogenesis imperfecta. <i>Journal of Clinical Investigation</i> , 2002 , 110, 1293-9	15.9	85

313	Risedronate in the treatment of mild pediatric osteogenesis imperfecta: a randomized placebo-controlled study. <i>Journal of Bone and Mineral Research</i> , 2009 , 24, 1282-9	6.3	83
312	Pamidronate in children with osteogenesis imperfecta: histomorphometric effects of long-term therapy. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2006 , 91, 511-6	5.6	83
311	Intravenous Bisphosphonate Therapy of Young Children With Osteogenesis Imperfecta: Skeletal Findings During Follow Up Throughout the Growing Years. <i>Journal of Bone and Mineral Research</i> , 2015 , 30, 2150-7	6.3	81
310	Recessive osteogenesis imperfecta caused by missense mutations in SPARC. <i>American Journal of Human Genetics</i> , 2015 , 96, 979-85	11	81
309	Pamidronate in children and adolescents with osteogenesis imperfecta: effect of treatment discontinuation. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2006 , 91, 1268-74	5.6	81
308	Maternal and fetal outcome after long-term pamidronate treatment before conception: a report of two cases. <i>Journal of Bone and Mineral Research</i> , 2004 , 19, 1742-5	6.3	80
307	Fassier-Duval femoral rodding in children with osteogenesis imperfecta receiving bisphosphonates: functional outcomes at one year. <i>Journal of Childrens Orthopaedics</i> , 2011 , 5, 217-24	2.1	79
306	Relationship between genotype and skeletal phenotype in children and adolescents with osteogenesis imperfecta. <i>Journal of Bone and Mineral Research</i> , 2010 , 25, 1367-74	6.3	79
305	Does leptin have an effect on bone in adult women?. <i>Calcified Tissue International</i> , 1998 , 63, 453-5	3.9	78
304	Insufficient Vitamin D Status at Birth Is Corrected by Vitamin D Supplementation (1000 IU/Day) With Increases in Lean Mass Evident at 12 Months of Age in Healthy Term Infants. <i>Current Developments in Nutrition</i> , 2021 , 5, 804-804	0.4	78
303	Osteogenesis imperfecta type VI in childhood and adolescence: effects of cyclical intravenous pamidronate treatment. <i>Bone</i> , 2007 , 40, 638-44	4.7	76
302	Effect of intravenous pamidronate therapy on functional abilities and level of ambulation in children with osteogenesis imperfecta. <i>Journal of Pediatrics</i> , 2006 , 148, 456-60	3.6	76
301	Musculoskeletal analyses of the forearm in young women with Turner syndrome: a study using peripheral quantitative computed tomography. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2001 , 86, 5819-23	5.6	76
300	Pamidronate does not adversely affect bone intrinsic material properties in children with osteogenesis imperfecta. <i>Bone</i> , 2006 , 39, 616-22	4.7	75
299	Peripheral quantitative computed tomography of the distal radius in young subjects - new reference data and interpretation of results. <i>Journal of Musculoskeletal Neuronal Interactions</i> , 2005 , 5, 119-26	1.3	75
298	Effect of sclerostin antibody treatment in a mouse model of severe osteogenesis imperfecta. <i>Bone</i> , 2014 , 66, 182-8	4.7	73
297	Genotype-phenotype correlations in nonlethal osteogenesis imperfecta caused by mutations in the helical domain of collagen type I. <i>European Journal of Human Genetics</i> , 2010 , 18, 642-7	5.3	73
296	Normative data on mineralization density distribution in iliac bone biopsies of children, adolescents and young adults. <i>Bone</i> , 2009 , 44, 1043-8	4.7	73

295	Incident Vertebral Fractures and Risk Factors in the First Three Years Following Glucocorticoid Initiation Among Pediatric Patients With Rheumatic Disorders. <i>Journal of Bone and Mineral Research</i> , 2015 , 30, 1667-75	6.3	72
294	Incident Vertebral Fractures in Children With Leukemia During the Four Years Following Diagnosis. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2015 , 100, 3408-17	5.6	68
293	Bisphosphonate therapy for children and adolescents with secondary osteoporosis. <i>The Cochrane Library</i> , 2007 , CD005324	5.2	66
292	Effects of osteogenic protein-1 on distraction osteogenesis in rabbits. <i>Bone</i> , 2003 , 33, 248-55	4.7	66
291	Cole-Carpenter syndrome is caused by a heterozygous missense mutation in P4HB. <i>American Journal of Human Genetics</i> , 2015 , 96, 425-31	11	65
290	A new and accurate prediction model for growth response to growth hormone treatment in children with growth hormone deficiency. <i>European Journal of Endocrinology</i> , 2001 , 144, 13-20	6.5	65
289	Vibration therapy. <i>Developmental Medicine and Child Neurology</i> , 2009 , 51 Suppl 4, 166-8	3.3	62
288	Intracortical remodeling during human bone development--a histomorphometric study. <i>Bone</i> , 2007 , 40, 274-80	4.7	62
287	Sclerotic metaphyseal lines in a child treated with pamidronate: histomorphometric analysis. <i>Journal of Bone and Mineral Research</i> , 2004 , 19, 1191-3	6.3	62
286	Iliac bone histomorphometry in children with newly diagnosed inflammatory bowel disease. <i>Osteoporosis International</i> , 2010 , 21, 331-7	5.3	61
285	Peripheral quantitative computed tomography of the proximal radius in young subjects--new reference data and interpretation of results. <i>Journal of Musculoskeletal Neuronal Interactions</i> , 2008 , 8, 217-26	1.3	61
284	Expression of Bone Morphogenetic Proteins during Mandibular Distraction Osteogenesis. <i>Plastic and Reconstructive Surgery</i> , 2003 , 111, 201-208	2.7	60
283	Rapid increase in grip force after start of pamidronate therapy in children and adolescents with severe osteogenesis imperfecta. <i>Pediatrics</i> , 2003 , 111, e601-3	7.4	60
282	Deficient bone formation in idiopathic juvenile osteoporosis: a histomorphometric study of cancellous iliac bone. <i>Journal of Bone and Mineral Research</i> , 2000 , 15, 957-63	6.3	59
281	Tooth extraction socket healing in pediatric patients treated with intravenous pamidronate. <i>Journal of Pediatrics</i> , 2008 , 153, 719-20	3.6	59
280	Respiratory distress with pamidronate treatment in infants with severe osteogenesis imperfecta. <i>Bone</i> , 2004 , 35, 231-4	4.7	59
279	Osteoporosis caused by mutations in PLS3: clinical and bone tissue characteristics. <i>Journal of Bone and Mineral Research</i> , 2014 , 29, 1805-14	6.3	58
278	Genotype-phenotype correlations in autosomal dominant osteogenesis imperfecta. <i>Journal of Osteoporosis</i> , 2011 , 2011, 540178	2.8	58

277	Skeletal clinical characteristics of osteogenesis imperfecta caused by haploinsufficiency mutations in COL1A1. <i>Journal of Bone and Mineral Research</i> , 2013 , 28, 2001-7	6.3	56
276	Cyclical intravenous pamidronate treatment affects metaphyseal modeling in growing patients with osteogenesis imperfecta. <i>Journal of Bone and Mineral Research</i> , 2006 , 21, 374-9	6.3	55
275	Five-year efficacy and safety of asfotase alfa therapy for adults and adolescents with hypophosphatasia. <i>Bone</i> , 2019 , 121, 149-162	4.7	55
274	Natural history of hyperplastic callus formation in osteogenesis imperfecta type V. <i>Journal of Bone and Mineral Research</i> , 2007 , 22, 1181-6	6.3	54
273	Resolution of severe, adolescent-onset hypophosphatemic rickets following resection of an FGF-23-producing tumour of the distal ulna. <i>Bone</i> , 2004 , 34, 905-11	4.7	54
272	CRTAP deficiency leads to abnormally high bone matrix mineralization in a murine model and in children with osteogenesis imperfecta type VII. <i>Bone</i> , 2010 , 46, 820-6	4.7	53
271	Lack of circulating pigment epithelium-derived factor is a marker of osteogenesis imperfecta type VI. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2012 , 97, E1550-6	5.6	53
270	Expression of bone morphogenetic proteins during mandibular distraction osteogenesis. <i>Plastic and Reconstructive Surgery</i> , 2003 , 111, 201-8; discussion 209-10	2.7	53
269	Osteogenesis imperfecta, current and future medical treatment. <i>American Journal of Medical Genetics, Part C: Seminars in Medical Genetics</i> , 2005 , 139C, 31-7	3.1	52
268	Homozygosity for frameshift mutations in XYLT2 result in a spondylo-ocular syndrome with bone fragility, cataracts, and hearing defects. <i>American Journal of Human Genetics</i> , 2015 , 96, 971-8	11	50
267	The bone formation defect in idiopathic juvenile osteoporosis is surface-specific. <i>Bone</i> , 2002 , 31, 85-9	4.7	50
266	Bone Morbidity and Recovery in Children With Acute Lymphoblastic Leukemia: Results of a Six-Year Prospective Cohort Study. <i>Journal of Bone and Mineral Research</i> , 2018 , 33, 1435-1443	6.3	50
265	A novel IFITM5 mutation in severe atypical osteogenesis imperfecta type VI impairs osteoblast production of pigment epithelium-derived factor. <i>Journal of Bone and Mineral Research</i> , 2014 , 29, 1402-11	6.3	47
264	Reproducibility of jumping mechanography in healthy children and adults. <i>Journal of Musculoskeletal Neuronal Interactions</i> , 2010 , 10, 256-66	1.3	47
263	Skeletal findings in children recently initiating glucocorticoids for the treatment of nephrotic syndrome. <i>Osteoporosis International</i> , 2012 , 23, 751-60	5.3	46
262	Osteogenesis imperfecta type VII maps to the short arm of chromosome 3. <i>Bone</i> , 2002 , 31, 19-25	4.7	46
261	Osteogenesis Imperfecta: New Perspectives From Clinical and Translational Research. <i>JBMR Plus</i> , 2019 , 3, e10174	3.9	45
260	A cross-sectional multicenter study of osteogenesis imperfecta in North America - results from the linked clinical research centers. <i>Clinical Genetics</i> , 2015 , 87, 133-40	4	45

259	The choice of normative pediatric reference database changes spine bone mineral density Z-scores but not the relationship between bone mineral density and prevalent vertebral fractures. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2015 , 100, 1018-27	5.6	45
258	Cortical and trabecular bone density in X-linked hypophosphatemic rickets. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2013 , 98, E954-61	5.6	45
257	Aging Versus Postmenopausal Osteoporosis: Bone Composition and Maturation Kinetics at Actively-Forming Trabecular Surfaces of Female Subjects Aged 1 to 84 Years. <i>Journal of Bone and Mineral Research</i> , 2016 , 31, 347-57	6.3	45
256	Osteotomy Healing in Children With Osteogenesis Imperfecta Receiving Bisphosphonate Treatment. <i>Journal of Bone and Mineral Research</i> , 2015 , 30, 1362-8	6.3	44
255	Mineral particle size in children with osteogenesis imperfecta type I is not increased independently of specific collagen mutations. <i>Bone</i> , 2014 , 60, 122-8	4.7	44
254	Osteopenia in X-linked hyper-IgM syndrome reveals a regulatory role for CD40 ligand in osteoclastogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 5056-61	11.5	44
253	Effect of calcium and vitamin D supplementation on bone mineral density in children with inflammatory bowel disease. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2007 , 45, 538-45	2.8	44
252	Urinary excretion of hydroxy-pyridinium cross-links of collagen reflects skeletal growth velocity in normal children. <i>Experimental and Clinical Endocrinology and Diabetes</i> , 1994 , 102, 94-7	2.3	44
251	The PETALE study: Late adverse effects and biomarkers in childhood acute lymphoblastic leukemia survivors. <i>Pediatric Blood and Cancer</i> , 2017 , 64, e26361	3	43
250	Scoliosis in osteogenesis imperfecta caused by COL1A1/COL1A2 mutations - genotype-phenotype correlations and effect of bisphosphonate treatment. <i>Bone</i> , 2016 , 86, 53-7	4.7	43
249	The effect of cyclical intravenous pamidronate in children and adolescents with osteogenesis imperfecta type V. <i>Bone</i> , 2006 , 38, 13-20	4.7	43
248	Single-dose pharmacokinetics and tolerability of alendronate 35- and 70-milligram tablets in children and adolescents with osteogenesis imperfecta type I. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2005 , 90, 4051-6	5.6	43
247	Short- and long-term outcome of patients with pseudo-vitamin D deficiency rickets treated with calcitriol. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2011 , 96, 82-9	5.6	42
246	Bone accrual in children: adding substance to surfaces. <i>Pediatrics</i> , 2007 , 119 Suppl 2, S137-40	7.4	42
245	Bisphosphonate treatment in osteogenesis imperfecta: which drug, for whom, for how long?. <i>Annals of Medicine</i> , 2005 , 37, 295-302	1.5	42
244	Burosumab Improved Histomorphometric Measures of Osteomalacia in Adults with X-Linked Hypophosphatemia: A Phase 3, Single-Arm, International Trial. <i>Journal of Bone and Mineral Research</i> , 2019 , 34, 2183-2191	6.3	41
243	Analysis of the musculoskeletal system in children and adolescents receiving anticonvulsant monotherapy with valproic acid or carbamazepine. <i>Pediatrics</i> , 2001 , 108, E107	7.4	41
242	Human fetal bone development: histomorphometric evaluation of the proximal femoral metaphysis. <i>Bone</i> , 2002 , 30, 823-8	4.7	41

241	Muscle anatomy and dynamic muscle function in osteogenesis imperfecta type I. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2014 , 99, E356-62	5.6	40
240	Cellular activity on the seven surfaces of iliac bone: a histomorphometric study in children and adolescents. <i>Journal of Bone and Mineral Research</i> , 2006 , 21, 513-9	6.3	39
239	Effects of locally applied transforming growth factor-beta1 on distraction osteogenesis in a rabbit limb-lengthening model. <i>Bone</i> , 2000 , 26, 619-24	4.7	39
238	Skeletal findings in the first 12 months following initiation of glucocorticoid therapy for pediatric nephrotic syndrome. <i>Osteoporosis International</i> , 2014 , 25, 627-37	5.3	37
237	Unique micro- and nano-scale mineralization pattern of human osteogenesis imperfecta type VI bone. <i>Bone</i> , 2015 , 73, 233-41	4.7	37
236	Cranial base abnormalities in osteogenesis imperfecta: phenotypic and genotypic determinants. <i>Journal of Bone and Mineral Research</i> , 2011 , 26, 405-13	6.3	37
235	Abnormalities in muscle density and muscle function in hypophosphatemic rickets. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2012 , 97, E1492-8	5.6	37
234	Markers of bone and collagen metabolism-problems and perspectives in paediatrics. <i>Hormone Research</i> , 1997 , 48 Suppl 5, 50-9		37
233	Quality of life in osteogenesis imperfecta: A mixed-methods systematic review. <i>American Journal of Medical Genetics, Part A</i> , 2016 , 170A, 62-76	2.5	37
232	Pediatric reference Raman data for material characteristics of iliac trabecular bone. <i>Bone</i> , 2014 , 69, 89-97	4.7	36
231	Sex-specific developmental changes in muscle size and bone geometry at the femoral shaft. <i>Bone</i> , 2008 , 42, 982-9	4.7	36
230	Temporal and spatial expression of bone morphogenetic protein-2, -4, and -7 during distraction osteogenesis in rabbits. <i>Bone</i> , 2000 , 26, 611-7	4.7	36
229	Bone morphogenetic proteins in orthopedics: from basic science to clinical practice. <i>Orthopedics</i> , 1999 , 22, 686-95; quiz 696-7	1.5	36
228	Hypermineralization and High Osteocyte Lacunar Density in Osteogenesis Imperfecta Type V Bone Indicate Exuberant Primary Bone Formation. <i>Journal of Bone and Mineral Research</i> , 2017 , 32, 1884-1892	6.3	34
227	Skeletal characteristics associated with homozygous and heterozygous WNT1 mutations. <i>Bone</i> , 2014 , 67, 63-70	4.7	34
226	Vitamin D status in Montréal preschoolers is satisfactory despite low vitamin D intake. <i>Journal of Nutrition</i> , 2013 , 143, 154-60	4.1	34
225	The functional muscle-bone unit in patients with osteogenesis imperfecta type I. <i>Bone</i> , 2015 , 79, 52-7	4.7	34
224	Wormian bones in osteogenesis imperfecta: Correlation to clinical findings and genotype. <i>American Journal of Medical Genetics, Part A</i> , 2010 , 152A, 1681-7	2.5	34

223	Immunohistochemical localization of bone morphogenetic protein-signaling Smads during long-bone distraction osteogenesis. <i>Journal of Histochemistry and Cytochemistry</i> , 2006 , 54, 407-15	3-4	34
222	Comparison of nanoindentation measurements between osteogenesis imperfecta Type III and Type IV and between different anatomic locations (femur/tibia versus iliac crest). <i>Connective Tissue Research</i> , 2007 , 48, 70-5	3-3	34
221	The psychosocial experience of individuals living with osteogenesis imperfecta: a mixed-methods systematic review. <i>Quality of Life Research</i> , 2016 , 25, 1877-96	3-7	33
220	Collagen Markers Deoxypyridinoline and Hydroxylysine Glycosides: Pediatric Reference Data and Use for Growth Prediction in Growth Hormone-deficient Children. <i>Clinical Chemistry</i> , 2002 , 48, 315-322	5-5	33
219	A polyadenylation site variant causes transcript-specific BMP1 deficiency and frequent fractures in children. <i>Human Molecular Genetics</i> , 2015 , 24, 516-24	5-6	32
218	The muscle-bone relationship in X-linked hypophosphatemic rickets. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2013 , 98, E990-5	5-6	32
217	Treatment of children with osteogenesis imperfecta. <i>Current Osteoporosis Reports</i> , 2006 , 4, 159-64	5-4	32
216	High and low density in the same bone: a study on children and adolescents with mild osteogenesis imperfecta. <i>Bone</i> , 2005 , 37, 634-41	4-7	32
215	Multidisciplinary Treatment of Severe Osteogenesis Imperfecta: Functional Outcomes at Skeletal Maturity. <i>Archives of Physical Medicine and Rehabilitation</i> , 2015 , 96, 1834-9	2-8	31
214	Histomorphometry and Bone Matrix Mineralization Before and After Bisphosphonate Treatment in Boys With Duchenne Muscular Dystrophy: A Paired Transiliac Biopsy Study. <i>Journal of Bone and Mineral Research</i> , 2016 , 31, 1060-9	6-3	31
213	The impact of severe osteogenesis imperfecta on the lives of young patients and their parents - a qualitative analysis. <i>BMC Pediatrics</i> , 2013 , 13, 153	2-6	31
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