Thomas O Carpenter

List of Publications by Citations

86 papers	4,561 citations	38 h-index	67 g-index
95 ext. papers	5,518 ext. citations	8.5 avg, IF	5.64 L-index

#	Paper	IF	Citations
86	SLC34A3 mutations in patients with hereditary hypophosphatemic rickets with hypercalciuria predict a key role for the sodium-phosphate cotransporter NaPi-IIc in maintaining phosphate homeostasis. *American Journal of Human Genetics*, **2006**, 78, 179-92	11	370
85	A clinician's guide to X-linked hypophosphatemia. *Journal of Bone and Mineral Research*, **2011**, 26, 1381-8	6.3	332
84	Burosumab Therapy in Children with X-Linked Hypophosphatemia. *New England Journal of Medicine* , **2018**, 378, 1987-1998	59.2	214
83	Randomized trial of the anti-FGF23 antibody KRN23 in X-linked hypophosphatemia. *Journal of Clinical Investigation*, **2014**, 124, 1587-97	15.9	211
82	A translocation causing increased alpha-klotho level results in hypophosphatemic rickets and hyperparathyroidism. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 3455-60	11.5	188
81	Relationships among vitamin D levels, parathyroid hormone, and calcium absorption in young adolescents. *Journal of Clinical Endocrinology and Metabolism*, **2005**, 90, 5576-81	5.6	139
80	A Randomized, Double-Blind, Placebo-Controlled, Phase 3 Trial Evaluating the Efficacy of Burosumab, an Anti-FGF23 Antibody, in Adults With X-Linked Hypophosphatemia: Week 24 Primary Analysis. *Journal of Bone and Mineral Research*, **2018**, 33, 1383-1393	6.3	134
79	Exome sequencing reveals FAM20c mutations associated with fibroblast growth factor 23-related hypophosphatemia, dental anomalies, and ectopic calcification. *Journal of Bone and Mineral Research*, **2013**, 28, 1378-85	6.3	125
78	Fibroblast growth factor 7: an inhibitor of phosphate transport derived from oncogenic osteomalacia-causing tumors. *Journal of Clinical Endocrinology and Metabolism*, **2005**, 90, 1012-20	5.6	125
77	Nutritional rickets with normal circulating 25-hydroxyvitamin D: a call for reexamining the role of dietary calcium intake in North American infants. *Journal of Clinical Endocrinology and Metabolism*, **2003**, 88, 3539-45	5.6	121
76	The expanding family of hypophosphatemic syndromes. *Journal of Bone and Mineral Metabolism*, **2012**, 30, 1-9	2.9	119
75	Treatment of X-linked hypophosphatemia with calcitriol and phosphate increases circulating fibroblast growth factor 23 concentrations. *Journal of Clinical Endocrinology and Metabolism*, **2010**, 95, 1846-50	5.6	118
74	Prolonged Correction of Serum Phosphorus in Adults With X-Linked Hypophosphatemia Using Monthly Doses of KRN23. *Journal of Clinical Endocrinology and Metabolism*, **2015**, 100, 2565-73	5.6	106
73	Circulating levels of soluble klotho and FGF23 in X-linked hypophosphatemia: circadian variance, effects of treatment, and relationship to parathyroid status. *Journal of Clinical Endocrinology and Metabolism*, **2010**, 95, E352-7	5.6	104
72	Mutations in SLC34A3/NPT2c are associated with kidney stones and nephrocalcinosis. *Journal of the American Society of Nephrology: JASN*, **2014**, 25, 2366-75	12.7	99
71	Characterization of FN1-FGFR1 and novel FN1-FGF1 fusion genes in a large series of phosphaturic mesenchymal tumors. *Modern Pathology*, **2016**, 29, 1335-1346	9.8	95
70	Genetic defect in CYP24A1, the vitamin D 24-hydroxylase gene, in a patient with severe infantile hypercalcemia. *Journal of Clinical Endocrinology and Metabolism*, **2012**, 97, E268-74	5.6	90

69	Rickets. *Nature Reviews Disease Primers*, **2017**, 3, 17101	51.1	85
68	Changes in bone turnover in young women consuming different levels of dietary protein. *Journal of Clinical Endocrinology and Metabolism*, **1999**, 84, 1052-5	5.6	83
67	SUN-LB19 Novel Homozygous Mutation in BMP1 Causing Osteogenesis Imperfecta. *Journal of the Endocrine Society*, **2020**, 4,	0.4	78
66	Vitamin D binding protein is a key determinant of 25-hydroxyvitamin D levels in infants and toddlers. *Journal of Bone and Mineral Research*, **2013**, 28, 213-21	6.3	75
65	New perspectives on the biology and treatment of X-linked hypophosphatemic rickets. *Pediatric Clinics of North America*, **1997**, 44, 443-66	3.6	75
64	Effects of Iron Isomaltoside vs Ferric Carboxymaltose on Hypophosphatemia in Iron-Deficiency Anemia: Two Randomized Clinical Trials. *JAMA - Journal of the American Medical Association*, **2020**, 323, 432-443	27.4	73
63	Survey of the enthesopathy of X-linked hypophosphatemia and its characterization in Hyp mice. *Calcified Tissue International*, **2009**, 85, 235-46	3.9	73
62	Conventional Therapy in Adults With X-Linked Hypophosphatemia: Effects on Enthesopathy and Dental Disease. *Journal of Clinical Endocrinology and Metabolism*, **2015**, 100, 3625-32	5.6	69
61	Efficacy and safety of burosumab in children aged 1-4 years with X-linked hypophosphataemia: a multicentre, open-label, phase 2 trial. *Lancet Diabetes and Endocrinology,the*, **2019**, 7, 189-199	18.1	69
60	A novel missense mutation in SLC34A3 that causes hereditary hypophosphatemic rickets with hypercalciuria in humans identifies threonine 137 as an important determinant of sodium-phosphate cotransport in NaPi-IIc. *American Journal of Physiology - Renal Physiology*, **2008**, 295, F371-9	4.3	64
59	Surveillance for early detection of aggressive parathyroid disease: carcinoma and atypical adenoma in familial isolated hyperparathyroidism associated with a germline HRPT2 mutation. *Journal of Bone and Mineral Research*, **2006**, 21, 1666-71	6.3	58
58	Hereditary hypophosphatemic rickets with hypercalciuria is not caused by mutations in the Na/Pi cotransporter NPT2 gene. *Journal of the American Society of Nephrology: JASN*, **2001**, 12, 507-514	12.7	57
57	A randomized controlled study of effects of dietary magnesium oxide supplementation on bone mineral content in healthy girls. *Journal of Clinical Endocrinology and Metabolism*, **2006**, 91, 4866-72	5.6	56
56	Nuclear isoforms of fibroblast growth factor 2 are novel inducers of hypophosphatemia via modulation of FGF23 and KLOTHO. *Journal of Biological Chemistry*, **2010**, 285, 2834-46	5.4	49
55	Demographic, dietary, and biochemical determinants of vitamin D status in inner-city children. *American Journal of Clinical Nutrition*, **2012**, 95, 137-46	7	49
54	Osteocalcin production in primary osteoblast cultures derived from normal and Hyp mice. *Endocrinology*, **1998**, 139, 35-43	4.8	49
53	Continued Beneficial Effects of Burosumab in Adults with X-Linked Hypophosphatemia: Results from a 24-Week Treatment Continuation Period After a 24-Week Double-Blind Placebo-Controlled Period. *Calcified Tissue International*, **2019**, 105, 271-284	3.9	47
52	Hypophosphatemia promotes lower rates of muscle ATP synthesis. *FASEB Journal*, **2016**, 30, 3378-3387	0.9	45

51	Hypophosphatemic rickets: lessons from disrupted FGF23 control of phosphorus homeostasis. *Current Osteoporosis Reports*, **2015**, 13, 88-97	5.4	40
50	Effect of four monthly doses of a human monoclonal anti-FGF23 antibody (KRN23) on quality of life in X-linked hypophosphatemia. *Bone Reports*, **2016**, 5, 158-162	2.6	40
49	Unexpected widespread hypophosphatemia and bone disease associated with elemental formula use in infants and children. *Bone*, **2017**, 97, 287-292	4.7	37
48	CYP24A1 loss of function: Clinical phenotype of monoallelic and biallelic mutations. *Journal of Steroid Biochemistry and Molecular Biology*, **2017**, 173, 337-340	5.1	36
47	Calcitonin administration in X-linked hypophosphatemia. *New England Journal of Medicine*, **2011**, 364, 1678-80	59.2	32
46	Pharmacokinetics and pharmacodynamics of a human monoclonal anti-FGF23 antibody (KRN23) in the first multiple ascending-dose trial treating adults with X-linked hypophosphatemia. *Journal of Clinical Pharmacology*, **2016**, 56, 176-85	2.9	29
45	Burosumab for the Treatment of Tumor-Induced Osteomalacia. *Journal of Bone and Mineral Research*, **2021**, 36, 627-635	6.3	29
44	Rickets severity predicts clinical outcomes in children with X-linked hypophosphatemia: Utility of the radiographic Rickets Severity Score. *Bone*, **2019**, 122, 76-81	4.7	28
43	Association between serum 25-hydroxyvitamin D level and pulmonary exacerbations in cystic fibrosis. *Pediatric Pulmonology*, **2015**, 50, 441-6	3.5	26
42	Pigment epithelium-derived factor restoration increases bone mass and improves bone plasticity in a model of osteogenesis imperfecta type VI via Wnt3a blockade. *FASEB Journal*, **2016**, 30, 2837-48	0.9	24
41	Effect of vitamin D-binding protein genotype on the development of asthma in children. *Annals of Allergy, Asthma and Immunology*, **2014**, 112, 519-24	3.2	23
40	Gastric bypass in obese rats causes bone loss, vitamin D deficiency, metabolic acidosis, and elevated peptide YY. *Surgery for Obesity and Related Diseases*, **2014**, 10, 878-84	3	22
39	Mutational Analysis and Genotype-Phenotype Correlation of the PHEX Gene in X-Linked Hypophosphatemic Rickets		22
38	Contemporary Medical and Surgical Management of X-linked Hypophosphatemic Rickets. *Journal of the American Academy of Orthopaedic Surgeons, The*, **2015**, 23, 433-42	4.5	21
37	Effect of paricalcitol on circulating parathyroid hormone in X-linked hypophosphatemia: a randomized, double-blind, placebo-controlled study. *Journal of Clinical Endocrinology and Metabolism*, **2014**, 99, 3103-11	5.6	20
36	Human Heterozygous ENPP1 Deficiency Is Associated With Early Onset Osteoporosis, a Phenotype Recapitulated in a Mouse Model of Enpp1 Deficiency. *Journal of Bone and Mineral Research*, **2020**, 35, 528-539	6.3	18
35	Population pharmacokinetic and pharmacodynamic analyses from a 4-month intradose escalation and its subsequent 12-month dose titration studies for a human monoclonal anti-FGF23 antibody (KRN23) in adults with X-linked hypophosphatemia. *Journal of Clinical Pharmacology*, **2016**, 56, 429-38	2.9	14
34	Evaluation of bone and mineral disorders. *Pediatric Endocrinology Reviews*, **2007**, 5 Suppl 1, 584-98	1.1	14

33	Growth Curves for Children with X-linked Hypophosphatemia. *Journal of Clinical Endocrinology and Metabolism*, **2020**, 105,	5.6	11
32	A Practical Clinical Approach to Paediatric Phosphate Disorders. *Endocrine Development*, **2015**, 28, 134-161		10
31	Familial Hypophosphatemia and Related Disorders **2003**, 603-XVI		9
30	Description of 5 Novel NPT2c Mutations Causing Hereditary Hypophosphatemic Rickets With Hypercalciuria. *Kidney International Reports*, **2019**, 4, 1179-1186	4.1	8
29	Media calcium attenuates mitochondrial 1,25(OH)2D production in phosphorus or vitamin D-deprived rats. *Pediatric Research*, **1995**, 37, 726-30	3.2	8
28	Vitamin D metabolism in chronic childhood hypoparathyroidism: evidence for a direct regulatory effect of calcium. *Journal of Pediatrics*, **1990**, 116, 252-7	3.6	8
27	Sonography of congenital adrenal hyperplasia due to partial deficiency of 3beta-hydroxysteroid dehydrogenase: a case report. *Pediatric Radiology*, **1997**, 27, 594-5	2.8	7
26	Secretion of a large molecular-weight form of insulin-like growth factor by a primary renal tumor. *Medical and Pediatric Oncology*, **1995**, 24, 392-6		7
25	Frequent overexpression of klotho in fusion-negative phosphaturic mesenchymal tumors with tumorigenic implications. *Modern Pathology*, **2020**, 33, 858-870	9.8	7
24	High dose vitamin D supplementation does not rescue bone loss following Roux-en-Y gastric bypass in female rats. *Bone*, **2019**, 127, 172-180	4.7	6
23	Heart failure in hypophosphatemic rickets: complications from high-dose phosphate therapy. *Endocrine Practice*, **2013**, 19, e8-e11	3.2	6
22	Sustained efficacy and safety of burosumab, a monoclonal antibody to FGF23, in children with X-linked hypophosphatemia. *Journal of Clinical Endocrinology and Metabolism*, **2021**,	5.6	6
21	Severity of reduced bone mineral density and risk of fractures in long-term survivors of childhood leukemia and lymphoma undergoing guideline-recommended surveillance for bone health. *Cancer*, **2020**, 126, 202-210	6.4	6
20	Relationship of Total and Free 25-Hydroxyvitamin D to Biomarkers and Metabolic Indices in Healthy Children. *Journal of Clinical Endocrinology and Metabolism*, **2020**, 105,	5.6	5
19	Familial Hypophosphatemia and Related Disorders **2012**, 699-726		4
18	Characterization of additional vitamin D binding protein variants. *Journal of Steroid Biochemistry and Molecular Biology*, **2016**, 159, 54-9	5.1	3
17	Long-Term Follow-up of Hypophosphatemic Bone Disease Associated With Elemental Formula Use: Sustained Correction of Bone Disease After Formula Change or Phosphate Supplementation. *Clinical Pediatrics*, **2020**, 59, 1080-1085	1.2	3
16	Case 32-2021: A 14-Year-Old Girl with Swelling of the Jaw and Hypercalcemia. *New England Journal of Medicine*, **2021**, 385, 1604-1613	59.2	2

15	Different elemental infant formulas show equivalent phosphorus and calcium bioavailability in healthy volunteers. *Nutrition Research*, **2021**, 85, 71-83	4	2
14	Response of the ENPP1-Deficient Skeletal Phenotype to Oral Phosphate Supplementation and/or Enzyme Replacement Therapy: Comparative Studies in Humans and Mice. *Journal of Bone and Mineral Research*, **2021**, 36, 942-955	6.3	2
13	Rickets: The Skeletal Disorders of Impaired Calcium or Phosphate Availability **2018**, 497-524		2
12	An Unusual Case of Rickets and How Whole Exome Sequencing Helped to Correct a Diagnosis. *AACE Clinical Case Reports*, **2016**, 2, ee278-ee283	0.7	1
11	Rickets: The Skeletal Disorders of Impaired Calcium or Phosphate Availability **2013**, 357-378		1
10	Phosphorus homeostasis and related disorders **2020**, 469-507		1
9	Serum Levels of Lipocalin Are Lower in Adolescents With X-Linked Hypophosphatemia. *Journal of the Endocrine Society*, **2021**, 5, A27-A27	0.4	1
8	Reply to: Burosumab for Tumor-Induced Osteomalacia: not Enough of a Good Thing. *Journal of Bone and Mineral Research*, **2021**,	6.3	1
7	Novel homozygous variant in BMP1 associated with a rare osteogenesis imperfecta phenotype. *Osteoporosis International*, **2021**, 32, 1239-1244	5.3	1
6	Skeletal disease in a father and daughter with a novel monoallelic WNT1 mutation. *Bone Reports*, **2018**, 9, 154-158	2.6	1
5	Disorders of Mineral Metabolism in Childhood651-658		1
4	25-OHD response to vitamin D supplementation in children: effect of dose but not GC haplotype. *European Journal of Endocrinology*, **2021**, 185, 333-342	6.5	0
3	Variations in cord 25-hydroxyvitamin D levels in Hispanic and Caucasian infants are not related to neonatal bone mineral status. *FASEB Journal*, **2010**, 24, 325.4	0.9	
2	Disorders of Mineral Metabolism in Childhood **2018**, 705-712		
1	Phosphorus bioaccessibility measured in four amino acid-based formulas using in-vitro batch digestion translates well into phosphorus bioavailability in mice. *Nutrition*, **2021**, 89, 111291	4.8	