Forrest H Nielsen

List of Publications by Citations

83 papers	8,705 citations	34 h-index	87 g-index
87 ext. papers	9,577 ext. citations	3.8 avg, IF	6.4 L-index

#	Paper	IF	Citations
83	Effect of dietary boron on mineral, estrogen, and testosterone metabolism in postmenopausal women1. *FASEB Journal*, **1987**, 1, 394-397	0.9	250
82	Magnesium, inflammation, and obesity in chronic disease. *Nutrition Reviews*, **2010**, 68, 333-40	6.4	176
81	Nutritional requirements for boron, silicon, vanadium, nickel, and arsenic: current knowledge and speculation. *FASEB Journal*, **1991**, 5, 2661-2667	0.9	163
80	Nickel deficiency diminishes sperm quantity and movement in rats. *Biological Trace Element Research*, **2003**, 93, 141-54	4.5	147
79	Update on human health effects of boron. *Journal of Trace Elements in Medicine and Biology*, **2014**, 28, 383-7	4.1	134
78	Is boron nutritionally relevant?. *Nutrition Reviews*, **2008**, 66, 183-91	6.4	130
77	Perspective: The Case for an Evidence-Based Reference Interval for Serum Magnesium: The Time Has Come. *Advances in Nutrition*, **2016**, 7, 977-993	10	84
76	Magnesium deficiency and increased inflammation: current perspectives. *Journal of Inflammation Research*, **2018**, 11, 25-34	4.8	84
75	Boron supplementation of a semipurified diet for weanling pigs improves feed efficiency and bone strength characteristics and alters plasma lipid metabolites. *Journal of Nutrition*, **2000**, 130, 2575-81	4.1	84
74	Dietary magnesium deficiency induces heart rhythm changes, impairs glucose tolerance, and decreases serum cholesterol in post menopausal women. *Journal of the American College of Nutrition*, **2007**, 26, 121-32	3.5	75
73	Ultratrace elements in nutrition: Current knowledge and speculation **1998**, 11, 251-274		73
72	Update on the possible nutritional importance of silicon. *Journal of Trace Elements in Medicine and Biology*, **2014**, 28, 379-82	4.1	70
71	Growing Evidence for Human Health Benefits of Boron. *Journal of Evidence-Based Complementary & Alternative Medicine*, **2011**, 16, 169-180		68
70	Interactions among nickel, copper, and iron in rats : Liver and plasma content of lipids and trace elements. *Biological Trace Element Research*, **1982**, 4, 125-43	4.5	68
69	Nickel deficiency in rats. *Journal of Nutrition*, **1975**, 105, 1620-30	4.1	65
68	Importance of making dietary recommendations for elements designated as nutritionally beneficial, pharmacologically beneficial, or conditioinally essential. *Journal of Trace Elements in Experimental Medicine*, **2000**, 13, 113-129		64
67	A histomorphometric study of alveolar bone modelling and remodelling in mice fed a boron-deficient diet. *Archives of Oral Biology*, **2008**, 53, 677-82	2.8	59

66	Dietary fat composition modifies the effect of boron on bone characteristics and plasma lipids in rats. *BioFactors*, **2004**, 20, 161-71	6.1	57
65	Dietary silicon affects bone turnover differently in ovariectomized and sham-operated growing rats. *Journal of Trace Elements in Experimental Medicine*, **2004**, 17, 137-149		55
64	Evidence for the nutritional essentiality of boron. *Journal of Trace Elements in Experimental Medicine*, **1996**, 9, 215-229		52
63	Micronutrients in parenteral nutrition: boron, silicon, and fluoride. *Gastroenterology*, **2009**, 137, S55-60	13.3	50
62	Histomorphometric study of alveolar bone healing in rats fed a boron-deficient diet. *Anatomical Record*, **2008**, 291, 441-7	2.1	50
61	The interaction between dietary fructose and magnesium adversely affects macromineral homeostasis in men. *Journal of the American College of Nutrition*, **2000**, 19, 31-7	3.5	49
60	History of zinc in agriculture. *Advances in Nutrition*, **2012**, 3, 783-9	10	48
59	Boron and fish oil have different beneficial effects on strength and trabecular microarchitecture of bone. *Journal of Trace Elements in Medicine and Biology*, **2009**, 23, 195-203	4.1	47
58	Effects of germanium and silicon on bone mineralization. *Biological Trace Element Research*, **1994**, 42, 151-64	4.5	46
57	The justification for providing dietary guidance for the nutritional intake of boron. *Biological Trace Element Research*, **1998**, 66, 319-30	4.5	45
56	How should dietary guidance be given for mineral elements with beneficial actions or suspected of being essential?. *Journal of Nutrition*, **1996**, 126, 2377S-2385S	4.1	44
55	Magnesium supplementation improves indicators of low magnesium status and inflammatory stress in adults older than 51 years with poor quality sleep. *Magnesium Research*, **2010**, 23, 158-68	1.7	42
54	Boron enhances strength and alters mineral composition of bone in rabbits fed a high energy diet. *Journal of Trace Elements in Medicine and Biology*, **2013**, 27, 148-53	4.1	40
53	Boron supplementation of peri-menopausal women affects boron metabolism and indices associated with macromineral metabolism, hormonal status and immune function. *Journal of Trace Elements in Experimental Medicine*, **1999**, 12, 251-261		40
52	Reported zinc, but not copper, intakes influence whole-body bone density, mineral content and T score responses to zinc and copper supplementation in healthy postmenopausal women. *British Journal of Nutrition*, **2011**, 106, 1872-9	3.6	39
51	Moderate magnesium deprivation results in calcium retention and altered potassium and phosphorus excretion by postmenopausal women. *Magnesium Research*, **2007**, 20, 19-31	1.7	34
50	Magnesium and methionine deprivation affect the response of rats to boron deprivation. *Biological Trace Element Research*, **1988**, 17, 91-107	4.5	33
49	Effects of magnesium depletion on inflammation in chronic disease. *Current Opinion in Clinical Nutrition and Metabolic Care*, **2014**, 17, 525-30	3.8	29

48	Boron deprivation alters rat behaviour and brain mineral composition differently when fish oil instead of safflower oil is the diet fat source. *Nutritional Neuroscience*, **2006**, 9, 105-12	3.6	26
47	Evolutionary events culminating in specific minerals becoming essential for life. *European Journal of Nutrition*, **2000**, 39, 62-6	5.2	21
46	The importance of diet composition in ultratrace element research. *Journal of Nutrition*, **1985**, 115, 1239-47	4.1	21
45	Interpreting magnesium status to enhance clinical care: key indicators. *Current Opinion in Clinical Nutrition and Metabolic Care*, **2017**, 20, 504-511	3.8	20
44	Dietary Magnesium and Chronic Disease. *Advances in Chronic Kidney Disease*, **2018**, 25, 230-235	4.7	19
43	High dietary aluminum affects the response of rats to silicon deprivation. *Biological Trace Element Research*, **1994**, 41, 295-304	4.5	18
42	Should bioactive trace elements not recognized as essential, but with beneficial health effects, have intake recommendations. *Journal of Trace Elements in Medicine and Biology*, **2014**, 28, 406-8	4.1	17
41	Data from Controlled Metabolic Ward Studies Provide Guidance for the Determination of Status Indicators and Dietary Requirements for Magnesium. *Biological Trace Element Research*, **2017**, 177, 43-52	4.5	17
40	Guidance for the determination of status indicators and dietary requirements for magnesium. *Magnesium Research*, **2016**, 29, 154-160	1.7	17
39	Dietary vitamin B12, sulfur amino acids, and odd-chain fatty acids affect the responses of rats to nickel deprivation. *Biological Trace Element Research*, **1993**, 37, 1-15	4.5	14
38	The Problematic Use of Dietary Reference Intakes to Assess Magnesium Status and Clinical Importance. *Biological Trace Element Research*, **2019**, 188, 52-59	4.5	14
37	Dietary boron does not affect tooth strength, micro-hardness, and density, but affects tooth mineral composition and alveolar bone mineral density in rabbits fed a high-energy diet. *Journal of Trace Elements in Medicine and Biology*, **2015**, 29, 208-15	4.1	13
36	Histomorphometric and microchemical characterization of maturing dental enamel in rats fed a boron-deficient diet. *Biological Trace Element Research*, **2010**, 135, 242-52	4.5	12
35	Boron and silicon: Effects on growth, plasma lipids, urinary cyclic amp and bone and brain mineral composition of male rats. *Environmental Toxicology and Chemistry*, **1994**, 13, 941-947	3.8	12
34	Boron. *Advances in Nutrition*, **2020**, 11, 461-462	10	11
33	The Nutritional Essentiality and Physiological Metabolism of Vanadium in Higher Animals. *ACS Symposium Series*, **1998**, 297-307	0.4	11
32	The alteration of magnesium, calcium and phosphorus metabolism by dietary magnesium deprivation in postmenopausal women is not affected by dietary boron deprivation. *Magnesium Research*, **2004**, 17, 197-210	1.7	11
31	Effect of dietary nickel deprivation on vision, olfaction, and taste in rats. *Journal of Trace Elements in Medicine and Biology*, **2014**, 28, 436-40	4.1	10

30	Soy protein is beneficial but high-fat diet and voluntary running are detrimental to bone structure in mice. *Nutrition Research*, **2015**, 35, 523-31	4	9
29	Some magnesium status indicators and oxidative metabolism responses to low-dietary magnesium are affected by dietary copper in postmenopausal women. *Nutrition*, **2003**, 19, 617-26	4.8	9
28	A novel silicon complex is as effective as sodium metasilicate in enhancing the collagen-induced inflammatory response of silicon-deprived rats. *Journal of Trace Elements in Medicine and Biology*, **2008**, 22, 39-49	4.1	8
27	Voluntary running of defined distances reduces body adiposity and its associated inflammation in C57BL/6 mice fed a high-fat diet. *Applied Physiology, Nutrition and Metabolism*, **2017**, 42, 1179-1184	3	7
26	Manganese, Molybdenum, Boron, Chromium, and Other Trace Elements **2012**, 586-607		7
25	Marginal zinc deficiency increases magnesium retention and impairs calcium utilization in rats. *Biological Trace Element Research*, **2009**, 128, 220-31	4.5	7
24	The Association Between Some Macro and Trace Elements in Saliva and Periodontal Status. *Biological Trace Element Research*, **2020**, 197, 35-42	4.5	7
23	A mild magnesium deprivation affects calcium excretion but not bone strength and shape, including changes induced by nickel deprivation, in the rat. *Biological Trace Element Research*, **2006**, 110, 133-50	4.5	6
22	Interactions among vanadium, iron, and cystine in rats growth, blood parameters, and organ Wt/body Wt ratios. *Biological Trace Element Research*, **1984**, 6, 118-32	4.5	6
21	Monocyte chemotactic protein-1 deficiency attenuates and high-fat diet exacerbates bone loss in mice with Lewis lung carcinoma. *Oncotarget*, **2017**, 8, 23303-23311	3.3	6
20	90th Anniversary Commentary: The AIN-93 Purified Diets for Laboratory Rodents-The Development of a Landmark Article in The Journal of Nutrition and Its Impact on Health and Disease Research Using Rodent Models. *Journal of Nutrition*, **2018**, 148, 1667-1670	4.1	6
19	Silicon deprivation does not significantly modify the acute white blood cell response but does modify tissue mineral distribution response to an endotoxin challenge. *Biological Trace Element Research*, **2010**, 135, 45-55	4.5	5
18	Dietary fatty acid composition alters magnesium metabolism, distribution, and marginal deficiency response in rats. *Magnesium Research*, **2009**, 22, 280-8	1.7	4
17	High dietary fructose compared with corn starch does not heighten changes in copper absorption, retention, or status indicators in men fed low dietary copper. *Journal of Trace Elements in Experimental Medicine*, **2003**, 16, 27-38		4
16	Effects in rats of iron on lead deprivation. *Biological Trace Element Research*, **1988**, 16, 155-64	4.5	4
15	Arsenic possibly influences carcinogenesis by affecting arginine and zinc metabolism. *Biological Trace Element Research*, **1983**, 5, 389-97	4.5	3
14	Nickel. *Advances in Nutrition*, **2021**, 12, 281-282	10	2
13	Boron as Boric Acid Induces mRNA Expression of the Differentiation Factor Tuftelin in Pre-Osteoblastic MC3T3-E1 Cells. *Biological Trace Element Research*, **2021**, 199, 1534-1543	4.5	2

12	High-fat Diet Enhances and Plasminogen Activator Inhibitor-1 Deficiency Attenuates Bone Loss in Mice with Lewis Lung Carcinoma. *Anticancer Research*, **2015**, 35, 3839-47	2.3	2
11	Editorial. *Biological Trace Element Research*, **2015**, 163, 1	4.5	1
10	A histomorphometric study of alveolar bone healing in rats fed a boron-deficient diet. *FASEB Journal*, **2006**, 20, A24	0.9	1
9	Dietary boron and fish oil have desirable effects on vertebral microarchitecture and strength. *FASEB Journal*, **2006**, 20, A561	0.9	1
8	Voluntary running of defined distances alters bone microstructure in C57BL/6 mice fed a high-fat diet. *Applied Physiology, Nutrition and Metabolism*, **2021**, 46, 1337-1344	3	0
7	A histomorphometric study of alveolar bone modeling and remodeling in mice fed a boron-deficient diet. *FASEB Journal*, **2006**, 20, A195	0.9	
6	Dietary boron, fish oil, and their interaction affect rat behavior and brain mineral composition. *FASEB Journal*, **2006**, 20, A176	0.9	
5	Boron deprivation increases plasma homocysteine, a factor negatively associated with bone composition and strength. *FASEB Journal*, **2007**, 21, A125	0.9	
4	A combined marginal deficiency of copper and zinc does not exacerbate oxidant stress associated with copper or zinc deficiency. *FASEB Journal*, **2008**, 22, 1103.1	0.9	
3	Plasma C-reactive protein (CRP), an indicator of inflammation, is decreased but plasma lipids are increased, especially with magnesium (Mg) deprivation, in rats made obese by high dietary butter oil. *FASEB Journal*, **2011**, 25, 109.8	0.9	
2	Dietary Selenium Supplementation Does Not Attenuate Mammary Tumorigenesis-Mediated Bone Loss in Male MMTV-PyMT Mice. *Biological Trace Element Research*, **2020**, 194, 221-227	4.5	
1	Nail Mineral Composition Changes Do Not Reflect Bone Mineral Changes Caused by Boron Supplementation.. *Biological Trace Element Research*, **2022**, 1	4.5	