

# Forrest H Nielsen

## List of Publications by Year in Descending Order

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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.

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	Nail Mineral Composition Changes Do Not Reflect Bone Mineral Changes Caused by Boron Supplementation.. <i>Biological Trace Element Research</i> , <b>2022</b> , 1	4.5	
82	Nickel. <i>Advances in Nutrition</i> , <b>2021</b> , 12, 281-282	10	2
81	Voluntary running of defined distances alters bone microstructure in C57BL/6 mice fed a high-fat diet. <i>Applied Physiology, Nutrition and Metabolism</i> , <b>2021</b> , 46, 1337-1344	3	0
80	Boron as Boric Acid Induces mRNA Expression of the Differentiation Factor Tuftelin in Pre-Osteoblastic MC3T3-E1 Cells. <i>Biological Trace Element Research</i> , <b>2021</b> , 199, 1534-1543	4.5	2
79	Boron. <i>Advances in Nutrition</i> , <b>2020</b> , 11, 461-462	10	11
78	The Association Between Some Macro and Trace Elements in Saliva and Periodontal Status. <i>Biological Trace Element Research</i> , <b>2020</b> , 197, 35-42	4.5	7
77	Dietary Selenium Supplementation Does Not Attenuate Mammary Tumorigenesis-Mediated Bone Loss in Male MMTV-PyMT Mice. <i>Biological Trace Element Research</i> , <b>2020</b> , 194, 221-227	4.5	
76	The Problematic Use of Dietary Reference Intakes to Assess Magnesium Status and Clinical Importance. <i>Biological Trace Element Research</i> , <b>2019</b> , 188, 52-59	4.5	14
75	Magnesium deficiency and increased inflammation: current perspectives. <i>Journal of Inflammation Research</i> , <b>2018</b> , 11, 25-34	4.8	84
74	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. <i>Journal of Nutrition</i> , <b>2018</b> , 148, 1667-1670	4.1	6
73	Dietary Magnesium and Chronic Disease. <i>Advances in Chronic Kidney Disease</i> , <b>2018</b> , 25, 230-235	4.7	19
72	Voluntary running of defined distances reduces body adiposity and its associated inflammation in C57BL/6 mice fed a high-fat diet. <i>Applied Physiology, Nutrition and Metabolism</i> , <b>2017</b> , 42, 1179-1184	3	7
71	Interpreting magnesium status to enhance clinical care: key indicators. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , <b>2017</b> , 20, 504-511	3.8	20
70	Data from Controlled Metabolic Ward Studies Provide Guidance for the Determination of Status Indicators and Dietary Requirements for Magnesium. <i>Biological Trace Element Research</i> , <b>2017</b> , 177, 43-52	4.5	17
69	Monocyte chemotactic protein-1 deficiency attenuates and high-fat diet exacerbates bone loss in mice with Lewis lung carcinoma. <i>Oncotarget</i> , <b>2017</b> , 8, 23303-23311	3.3	6
68	Perspective: The Case for an Evidence-Based Reference Interval for Serum Magnesium: The Time Has Come. <i>Advances in Nutrition</i> , <b>2016</b> , 7, 977-993	10	84
67	Guidance for the determination of status indicators and dietary requirements for magnesium. <i>Magnesium Research</i> , <b>2016</b> , 29, 154-160	1.7	17

66	Editorial. <i>Biological Trace Element Research</i> , <b>2015</b> , 163, 1	4.5	1
65	Soy protein is beneficial but high-fat diet and voluntary running are detrimental to bone structure in mice. <i>Nutrition Research</i> , <b>2015</b> , 35, 523-31	4	9
64	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. <i>Journal of Trace Elements in Medicine and Biology</i> , <b>2015</b> , 29, 208-15	4.1	13
63	High-fat Diet Enhances and Plasminogen Activator Inhibitor-1 Deficiency Attenuates Bone Loss in Mice with Lewis Lung Carcinoma. <i>Anticancer Research</i> , <b>2015</b> , 35, 3839-47	2.3	2
62	Update on the possible nutritional importance of silicon. <i>Journal of Trace Elements in Medicine and Biology</i> , <b>2014</b> , 28, 379-82	4.1	70
61	Update on human health effects of boron. <i>Journal of Trace Elements in Medicine and Biology</i> , <b>2014</b> , 28, 383-7	4.1	134
60	Should bioactive trace elements not recognized as essential, but with beneficial health effects, have intake recommendations. <i>Journal of Trace Elements in Medicine and Biology</i> , <b>2014</b> , 28, 406-8	4.1	17
59	Effect of dietary nickel deprivation on vision, olfaction, and taste in rats. <i>Journal of Trace Elements in Medicine and Biology</i> , <b>2014</b> , 28, 436-40	4.1	10
58	Effects of magnesium depletion on inflammation in chronic disease. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , <b>2014</b> , 17, 525-30	3.8	29
57	Boron enhances strength and alters mineral composition of bone in rabbits fed a high energy diet. <i>Journal of Trace Elements in Medicine and Biology</i> , <b>2013</b> , 27, 148-53	4.1	40
56	Manganese, Molybdenum, Boron, Chromium, and Other Trace Elements <b>2012</b> , 586-607		7
55	History of zinc in agriculture. <i>Advances in Nutrition</i> , <b>2012</b> , 3, 783-9	10	48
54	Growing Evidence for Human Health Benefits of Boron. <i>Journal of Evidence-Based Complementary &amp; Alternative Medicine</i> , <b>2011</b> , 16, 169-180		68
53	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. <i>British Journal of Nutrition</i> , <b>2011</b> , 106, 1872-9	3.6	39
52	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. <i>FASEB Journal</i> , <b>2011</b> , 25, 109.8	0.9	
51	Magnesium, inflammation, and obesity in chronic disease. <i>Nutrition Reviews</i> , <b>2010</b> , 68, 333-40	6.4	176
50	Silicon deprivation does not significantly modify the acute white blood cell response but does modify tissue mineral distribution response to an endotoxin challenge. <i>Biological Trace Element Research</i> , <b>2010</b> , 135, 45-55	4.5	5
49	Histomorphometric and microchemical characterization of maturing dental enamel in rats fed a boron-deficient diet. <i>Biological Trace Element Research</i> , <b>2010</b> , 135, 242-52	4.5	12

48	Magnesium supplementation improves indicators of low magnesium status and inflammatory stress in adults older than 51 years with poor quality sleep. <i>Magnesium Research</i> , <b>2010</b> , 23, 158-68	1.7	42
47	Dietary fatty acid composition alters magnesium metabolism, distribution, and marginal deficiency response in rats. <i>Magnesium Research</i> , <b>2009</b> , 22, 280-8	1.7	4
46	Boron and fish oil have different beneficial effects on strength and trabecular microarchitecture of bone. <i>Journal of Trace Elements in Medicine and Biology</i> , <b>2009</b> , 23, 195-203	4.1	47
45	Marginal zinc deficiency increases magnesium retention and impairs calcium utilization in rats. <i>Biological Trace Element Research</i> , <b>2009</b> , 128, 220-31	4.5	7
44	Micronutrients in parenteral nutrition: boron, silicon, and fluoride. <i>Gastroenterology</i> , <b>2009</b> , 137, S55-60	13.3	50
43	Is boron nutritionally relevant?. <i>Nutrition Reviews</i> , <b>2008</b> , 66, 183-91	6.4	130
42	A histomorphometric study of alveolar bone modelling and remodelling in mice fed a boron-deficient diet. <i>Archives of Oral Biology</i> , <b>2008</b> , 53, 677-82	2.8	59
41	Histomorphometric study of alveolar bone healing in rats fed a boron-deficient diet. <i>Anatomical Record</i> , <b>2008</b> , 291, 441-7	2.1	50
40	A novel silicon complex is as effective as sodium metasilicate in enhancing the collagen-induced inflammatory response of silicon-deprived rats. <i>Journal of Trace Elements in Medicine and Biology</i> , <b>2008</b> , 22, 39-49	4.1	8
39	A combined marginal deficiency of copper and zinc does not exacerbate oxidant stress associated with copper or zinc deficiency. <i>FASEB Journal</i> , <b>2008</b> , 22, 1103.1	0.9	
38	Dietary magnesium deficiency induces heart rhythm changes, impairs glucose tolerance, and decreases serum cholesterol in post menopausal women. <i>Journal of the American College of Nutrition</i> , <b>2007</b> , 26, 121-32	3.5	75
37	Boron deprivation increases plasma homocysteine, a factor negatively associated with bone composition and strength. <i>FASEB Journal</i> , <b>2007</b> , 21, A125	0.9	
36	Moderate magnesium deprivation results in calcium retention and altered potassium and phosphorus excretion by postmenopausal women. <i>Magnesium Research</i> , <b>2007</b> , 20, 19-31	1.7	34
35	Boron deprivation alters rat behaviour and brain mineral composition differently when fish oil instead of safflower oil is the diet fat source. <i>Nutritional Neuroscience</i> , <b>2006</b> , 9, 105-12	3.6	26
34	A mild magnesium deprivation affects calcium excretion but not bone strength and shape, including changes induced by nickel deprivation, in the rat. <i>Biological Trace Element Research</i> , <b>2006</b> , 110, 133-50	4.5	6
33	A histomorphometric study of alveolar bone healing in rats fed a boron-deficient diet. <i>FASEB Journal</i> , <b>2006</b> , 20, A24	0.9	1
32	A histomorphometric study of alveolar bone modeling and remodeling in mice fed a boron-deficient diet. <i>FASEB Journal</i> , <b>2006</b> , 20, A195	0.9	
31	Dietary boron and fish oil have desirable effects on vertebral microarchitecture and strength. <i>FASEB Journal</i> , <b>2006</b> , 20, A561	0.9	1

30	Dietary boron, fish oil, and their interaction affect rat behavior and brain mineral composition. <i>FASEB Journal</i> , <b>2006</b> , 20, A176	0.9	
29	Dietary fat composition modifies the effect of boron on bone characteristics and plasma lipids in rats. <i>BioFactors</i> , <b>2004</b> , 20, 161-71	6.1	57
28	Dietary silicon affects bone turnover differently in ovariectomized and sham-operated growing rats. <i>Journal of Trace Elements in Experimental Medicine</i> , <b>2004</b> , 17, 137-149		55
27	The alteration of magnesium, calcium and phosphorus metabolism by dietary magnesium deprivation in postmenopausal women is not affected by dietary boron deprivation. <i>Magnesium Research</i> , <b>2004</b> , 17, 197-210	1.7	11
26	Nickel deficiency diminishes sperm quantity and movement in rats. <i>Biological Trace Element Research</i> , <b>2003</b> , 93, 141-54	4.5	147
25	Some magnesium status indicators and oxidative metabolism responses to low-dietary magnesium are affected by dietary copper in postmenopausal women. <i>Nutrition</i> , <b>2003</b> , 19, 617-26	4.8	9
24	High dietary fructose compared with corn starch does not heighten changes in copper absorption, retention, or status indicators in men fed low dietary copper. <i>Journal of Trace Elements in Experimental Medicine</i> , <b>2003</b> , 16, 27-38		4
23	Importance of making dietary recommendations for elements designated as nutritionally beneficial, pharmacologically beneficial, or conditionally essential. <i>Journal of Trace Elements in Experimental Medicine</i> , <b>2000</b> , 13, 113-129		64
22	Evolutionary events culminating in specific minerals becoming essential for life. <i>European Journal of Nutrition</i> , <b>2000</b> , 39, 62-6	5.2	21
21	Boron supplementation of a semipurified diet for weanling pigs improves feed efficiency and bone strength characteristics and alters plasma lipid metabolites. <i>Journal of Nutrition</i> , <b>2000</b> , 130, 2575-81	4.1	84
20	The interaction between dietary fructose and magnesium adversely affects macromineral homeostasis in men. <i>Journal of the American College of Nutrition</i> , <b>2000</b> , 19, 31-7	3.5	49
19	Boron supplementation of peri-menopausal women affects boron metabolism and indices associated with macromineral metabolism, hormonal status and immune function. <i>Journal of Trace Elements in Experimental Medicine</i> , <b>1999</b> , 12, 251-261		40
18	Ultratrace elements in nutrition: Current knowledge and speculation <b>1998</b> , 11, 251-274		73
17	The justification for providing dietary guidance for the nutritional intake of boron. <i>Biological Trace Element Research</i> , <b>1998</b> , 66, 319-30	4.5	45
16	The Nutritional Essentiality and Physiological Metabolism of Vanadium in Higher Animals. <i>ACS Symposium Series</i> , <b>1998</b> , 297-307	0.4	11
15	How should dietary guidance be given for mineral elements with beneficial actions or suspected of being essential?. <i>Journal of Nutrition</i> , <b>1996</b> , 126, 2377S-2385S	4.1	44
14	Evidence for the nutritional essentiality of boron. <i>Journal of Trace Elements in Experimental Medicine</i> , <b>1996</b> , 9, 215-229		52
13	Boron and silicon: Effects on growth, plasma lipids, urinary cyclic amp and bone and brain mineral composition of male rats. <i>Environmental Toxicology and Chemistry</i> , <b>1994</b> , 13, 941-947	3.8	12

12	High dietary aluminum affects the response of rats to silicon deprivation. <i>Biological Trace Element Research</i> , <b>1994</b> , 41, 295-304	4.5	18
11	Effects of germanium and silicon on bone mineralization. <i>Biological Trace Element Research</i> , <b>1994</b> , 42, 151-64	4.5	46
10	Dietary vitamin B12, sulfur amino acids, and odd-chain fatty acids affect the responses of rats to nickel deprivation. <i>Biological Trace Element Research</i> , <b>1993</b> , 37, 1-15	4.5	14
9	Nutritional requirements for boron, silicon, vanadium, nickel, and arsenic: current knowledge and speculation. <i>FASEB Journal</i> , <b>1991</b> , 5, 2661-2667	0.9	163
8	Magnesium and methionine deprivation affect the response of rats to boron deprivation. <i>Biological Trace Element Research</i> , <b>1988</b> , 17, 91-107	4.5	33
7	Effects in rats of iron on lead deprivation. <i>Biological Trace Element Research</i> , <b>1988</b> , 16, 155-64	4.5	4
6	Effect of dietary boron on mineral, estrogen, and testosterone metabolism in postmenopausal women <sup>1</sup> . <i>FASEB Journal</i> , <b>1987</b> , 1, 394-397	0.9	250
5	The importance of diet composition in ultratrace element research. <i>Journal of Nutrition</i> , <b>1985</b> , 115, 1239-47	4.7	21
4	Interactions among vanadium, iron, and cystine in rats growth, blood parameters, and organ Wt/body Wt ratios. <i>Biological Trace Element Research</i> , <b>1984</b> , 6, 118-32	4.5	6
3	Arsenic possibly influences carcinogenesis by affecting arginine and zinc metabolism. <i>Biological Trace Element Research</i> , <b>1983</b> , 5, 389-97	4.5	3
2	Interactions among nickel, copper, and iron in rats : Liver and plasma content of lipids and trace elements. <i>Biological Trace Element Research</i> , <b>1982</b> , 4, 125-43	4.5	68
1	Nickel deficiency in rats. <i>Journal of Nutrition</i> , <b>1975</b> , 105, 1620-30	4.1	65