JÃ¼rgen Vormann

List of Publications by Year
in descending order

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86	2,735	201575	189801
papers	citations	27 h-index	50 g-index

94	94	94	2511
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Magnesium: nutrition and metabolism. Molecular Aspects of Medicine, 2003, 24, 27-37.	2.7	547
2	Coenzyme Q10 affects expression of genes involved in cell signalling, metabolism and transport in human CaCo-2 cells. International Journal of Biochemistry and Cell Biology, 2005, 37, 1208-1218.	1.2	177
3	Human geneSLC41A1encodes for the Na⁺/Mg²⁺exchanger. American Journal of Physiology - Cell Physiology, 2012, 302, C318-C326.	2.1	121
4	Magnesium deficiency induces joint cartilage lesions in juvenile rats which are identical to quinolone-induced arthropathy. Antimicrobial Agents and Chemotherapy, 1995, 39, 2013-2018.	1.4	96
5	Mg2+ efflux is accomplished by an amiloride-sensitive Na+Mg2+ antiport. Biochemical and Biophysical Research Communications, 1985, 130, 540-545.	1.0	94
6	Regulation of intracellular magnesium by Mg2+ efflux. Biochemical and Biophysical Research Communications, 1984, 119, 124-131.	1.0	87
7	Acid-Base Status Affects Renal Magnesium Losses in Healthy, Elderly Persons. Journal of Nutrition, 2006, 136, 2374-2377.	1.3	62
8	Integrins on joint cartilage chondrocytes and alterations by ofloxacin or magnesium deficiency in immature rats. Archives of Toxicology, 1996, 70, 261-270.	1.9	61
9	Ultrastructure of Achilles Tendons of Rats Treated with Ofloxacin and Fed a Normal or Magnesium-Deficient Diet. Antimicrobial Agents and Chemotherapy, 2000, 44, 261-266.	1.4	60
10	Substitution p.A350V in Na+/Mg2+ Exchanger SLC41A1, Potentially Associated with Parkinson's Disease, Is a Gain-of-Function Mutation. PLoS ONE, 2013, 8, e71096.	1.1	60
11	Activation of Na+/Mg2+antiport in thymocytes by cAMP. FEBS Letters, 1992, 297, 132-134.	1.3	58
12	Characterization of Na+-dependent Mg2+ efflux from Mg2+-loaded rat erythrocytes. Biochimica Et Biophysica Acta - Biomembranes, 1990, 1023, 455-461.	1.4	53
13	Mg2+ Deprivation Elicits Rapid Ca2+ Uptake and Activates Ca2+/Calcineurin Signaling in Saccharomyces cerevisiae. Eukaryotic Cell, 2007, 6, 592-599.	3.4	51
14	Effects of Magnesium Deficiency on Magnesium and Calcium Content in Bone and Cartilage in Developing Rats in Correlation to Chondrotoxicity. Calcified Tissue International, 1997, 61, 230-238.	1.5	48
15	Renal Net Acid Excretion Capacity Is Comparable in Prepubescence, Adolescence, and Young Adulthood but Falls with Aging. Journal of the American Geriatrics Society, 2008, 56, 1442-1448.	1.3	47
16	Mechanisms of Mg2+ transport in cultured ruminal epithelial cells. American Journal of Physiology - Renal Physiology, 2000, 278, G400-G408.	1.6	45
17	Comparative Evaluation of Ultrastructural Changes in Articular Cartilage of Ofioxacin-Treated and Magnesium-Deficient Immature Rats. Toxicologic Pathology, 1996, 24, 580-587.	0.9	40
18	Magnesium: Nutrition and Homoeostasis. AIMS Public Health, 2016, 3, 329-340.	1.1	39

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19	Human CNNM2 is not a Mg2+ transporter per se. Pflugers Archiv European Journal of Physiology, 2016, 468, 1223-1240.	1.3	38
20	Dietary, Metabolic, Physiologic, and Disease-Related Aspects of Acid-Base Balance: Foreword to the Contributions of the Second International Acid-Base Symposium ,. Journal of Nutrition, 2008, 138, 413S-414S.	1.3	36
21	Reversibility of Na+/Mg2+ antiport in rat erythrocytes. Biochimica Et Biophysica Acta - Biomembranes, 1995, 1234, 105-110.	1.4	33
22	Muscularity and adiposity in addition to net acid excretion as predictors of 24-h urinary pH in young adults and elderly. European Journal of Clinical Nutrition, 2007, 61, 605-609.	1.3	33
23	Acid-base conditions regulate calcium andÂmagnesium homeostasis. Magnesium Research, 2009, 22, 262-265.	0.4	33
24	Characterization of Mg2+ efflux from human, rat and chicken erythrocytes. FEBS Letters, 1989, 250, 633-637.	1.3	31
25	Characterization of Na+-independent Mg2+efflux from erythrocytes. FEBS Letters, 1990, 271, 149-151.	1.3	30
26	PARK7/DJ-1 dysregulation by oxidative stress leads to magnesium deficiency: implications in degenerative and chronic diseases. Clinical Science, 2015, 129, 1143-1150.	1.8	30
27	Lipid peroxidation and morphology of rat testis in magnesium deficiency. Andrologia, 1996, 28, 43-51.	1.0	28
28	Effects of magnesium and iron on lipid peroxidation in cultured hepatocytes. Molecular and Cellular Biochemistry, 1995, 144, 141-145.	1.4	27
29	Supplementation with alkaline minerals reduces symptoms in patients with chronic low back pain. Journal of Trace Elements in Medicine and Biology, 2001, 15, 179-183.	1.5	27
30	Magnesium supplementation to prevent high blood pressure in pregnancy: a randomised placebo control trial. Archives of Gynecology and Obstetrics, 2013, 288, 1269-1274.	0.8	27
31	Effects of magnesium deficiency on joint cartilage in immature Beagle dogs: immunohistochemistry, electron microscopy, and mineral concentrations. Archives of Toxicology, 2000, 73, 573-580.	1.9	26
32	Diminished Ciprofloxacin-Induced Chondrotoxicity by Supplementation with Magnesium and Vitamin E in Immature Rats. Antimicrobial Agents and Chemotherapy, 2007, 51, 1022-1027.	1.4	25
33	SLC41A1is the only magnesium responsive gene significantly overexpressed in placentas of preeclamptic women. Hypertension in Pregnancy, 2013, 32, 378-389.	0.5	24
34	Species-specific Mn2+/Mg2+antiport from Mg2+-loaded erythrocytes. FEBS Letters, 1990, 261, 47-51.	1.3	23
35	Insulin Modulates the Na+/Mg2+ Exchanger SLC41A1 and Influences Mg2+ Efflux from Intracellular Stores in Transgenic HEK293 Cells. Journal of Nutrition, 2015, 145, 2440-2447.	1.3	23
36	Characterization of Na+/Mg2+ antiport by simultaneous 28Mg2+ influx. Biochemical and Biophysical Research Communications, 1987, 148, 1069-1074.	1.0	22

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37	Kinetics of ?-glycerophosphate-induced endochondral mineralization In vitro. Calcium accumulation, alkaline phosphatase activity, and effects of levamisole. Calcified Tissue International, 1992, 51, 54-61.	1.5	22
38	Iron-induced injury of rat testis. Andrologia, 1996, 28, 267-273.	1.0	22
39	Enhanced ototoxicity of gentamicin and salicylate caused by Mg deficiency and Zn deficiency. Biological Trace Element Research, 1988, 16, 43-50.	1.9	20
40	Na+-independent Mg2+efflux from Mg2+-loaded human erythrocytes. FEBS Letters, 1989, 247, 181-184.	1.3	20
41	Characterization of furosemide-sensitive Mg2+ influx in Yoshida ascites tumor cells. FEBS Letters, 1986, 197, 297-300.	1.3	19
42	Development of fetal mineral and trace element metabolism in rats with normal as well as magnesium- and zinc-deficient diets. Biological Trace Element Research, 1986, 9, 37-53.	1.9	19
43	Effect of various degrees and duration of magnesium deficiency on lipid peroxidation and mineral metabolism in rats. Journal of Nutritional Biochemistry, 1995, 6, 681-688.	1.9	19
44	Supplementation with Magnesium and Tocopherol Diminishes Quinolone-Induced Chondrotoxicity in Immature Rats. Drugs, 1999, 58, 393-394.	4.9	19
45	Splice-variant 1 of the ancient domain protein 2 (ACDP2) complements the magnesium-deficient growth phenotype of Salmonella enterica sv. typhimurium strain MM281. Magnesium Research, 2010, 23, 105-14.	0.4	18
46	Quinolone-induced arthropathy: exposure of magnesium-deficient aged rats or immature rats, mineral concentrations in target tissues and pharmacokinetics. Archives of Toxicology, 1997, 72, 26-32.	1.9	17
47	Synergistic Effect of Ofloxacin and Magnesium Deficiency on Joint Cartilage in Immature Rats. Antimicrobial Agents and Chemotherapy, 2002, 46, 1755-1759.	1.4	17
48	Myth or Realityâ€"Transdermal Magnesium?. Nutrients, 2017, 9, 813.	1.7	17
49	Effects of fluoroquinolones and magnesium deficiency in murine limb bud cultures. Archives of Toxicology, 1998, 72, 411-419.	1.9	16
50	Foreword to the contributions of the 3rd International Acid-Base Symposium, Smolenice Castle, Slovakia, 2018. European Journal of Clinical Nutrition, 2020, 74, 1-2.	1.3	16
51	Erythropoietin in 29 men during and after prolonged physical stress combined with food and fluid deprivation. European Journal of Applied Physiology and Occupational Physiology, 1996, 73, 11-16.	1.2	15
52	Effect of valproate on zinc metabolism in fetal and maternal rats fed normal and zinc-deficient diets. Biological Trace Element Research, 1986, 10, 25-35.	1.9	14
53	Characterization and development of metallothionein in fetal forelimbs, brain and liver from the mouse. Toxicology Letters, 1989, 45, 83-91.	0.4	13
54	Magnesium and Kidney Health - More on the â€˜Forgotten Electrolyte'. American Journal of Nephrology, 2016, 44, 379-380.	1.4	13

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55	Effect of salicylate on zinc metabolism in fetal and maternal rats fed normal and zinc-deficient diets. Biological Trace Element Research, 1986, 9, 55-64.	1.9	12
56	Magnesium and COVID-19 â€“ Some Further Comments â€“ A Commentary on Wallace TC. Combating COVID-19 and Building Immune Resilience: A Potential Role for Magnesium Nutrition? J Am Coll Nutr. 2020;1â€“9. doi:10.1080/07315724.2020.1785971. Cited in: PMID: 32649272. Journal of the American College of Nutrition, 2021, 40, 732-734.	1.1	12
57	Blood pressure in pregnancy and magnesium sensitive genes. Pregnancy Hypertension, 2014, 4, 41-45.	0.6	10
58	Isoproterenol-induced Mg2+uptake in liver. FEBS Letters, 1992, 307, 333-336.	1.3	9
59	Enzyme histochemistry of malignant T cell lymphoma due to chronic magnesium deficiency in rats. Histochemistry, 1984, 80, 183-186.	1.9	8
60	Magnesium deficiency and COVID- 19 â€“ What are the links?. Trace Elements and Electrolytes, 2020, 37, 103-107.	0.1	8
61	Enzymatic and morphological response of the thymus to drugs in normal and zinc-deficient pregnant rats and their fetuses. Histochemistry, 1987, 86, 321-329.	1.9	7
62	Induction of Mn2+ /H+ antiport in chicken erythrocytes by intracellular Mg2+ and Mn2+. FEBS Letters, 1990, 265, 55-58.	1.3	7
63	Interactions of polyamines in the measurement of free magnesium concentration by mag-fura-2 and 31P-NMR. Biochimica Et Biophysica Acta - Biomembranes, 1994, 1192, 281-285.	1.4	7
64	Nature of SLC41A1 complexes: report on the split-ubiquitin yeast two hybrid assay. Magnesium Research, 2013, 26, 56-66.	0.4	6
65	Significance of magnesium in insulin resistance, metabolic syndrome, and diabetes â€“ recommendations of the Association of Magnesium Research e.V.. Trace Elements and Electrolytes, 2017, 34, 124-129.	0.1	6
66	Induction of hepatic metallothionein by salicylate in adult rats. Biological Trace Element Research, 1989, 20, 243-249.	1.9	5
67	Protection against salicylate-induced hepatic injury by zinc. A histochemical and biochemical study. The Histochemical Journal, 1991, 23, 75-82.	0.6	5
68	Exercise Training, Intermittent Fasting and Alkaline Supplementation as an Effective Strategy for Body Weight Loss: A 12-Week Placebo-Controlled Double-Blind Intervention with Overweight Subjects. Life, 2020, 10, 74.	1.1	5
69	Maternal and fetal iron accumulation in Zn-deficient and salicylate-treated rats. Biological Trace Element Research, 1988, 18, 49-58.	1.9	4
70	On the origin of the increased tissue iron content in graded magnesium deficiency states in the rat. British Journal of Nutrition, 1997, 77, 475-490.	1.2	4
71	In vitro evidence for a Donnan distribution of Mgâ€Š 2+ and Ca 2+ by chondroitin sulphate in cartilage. Archives of Toxicology, 1997, 71, 471-475.	1.9	4
72	Effects of salicylate and zinc deficiency on the serum concentrations of magnesium, calcium, and parathyroid hormone. Biological Trace Element Research, 1988, 16, 129-135.	1.9	3

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73	Evidence of progress and success of Mg substitution by correlating Mg dynamics and metabolic parameters. Trace Elements and Electrolytes, 2013, 30, 87-93.	0.1	2
74	Magnesium intervention studies -methodological aspects. Magnesium Research, 2015, 28, 75-78.	0.4	2
75	Perinatal Development of Superoxide Dismutase in Rat Liver and Kidney. , 1988, , 627-628.		2
76	Assessment of bioavailability of Mg from Mg citrate and Mg oxide by measuring urinary excretion in Mg-saturated subjects. Magnesium Research, 2019, 32, 63-71.	0.4	2
77	Cellular and humoral immunity in rats after gestational zinc or magnesium deficiency. Journal of Nutritional Biochemistry, 1996, 7, 327-332.	1.9	1
78	A system of changes of ionized blood Mg through sports and supplementation. Trace Elements and Electrolytes, 2013, 30, 105-107.	0.1	1
79	In memoriam Rudolf Schweyen (1941-2009). Magnesium Research, 2009, 22, 114-114.	0.4	0
80	Magnesium and preeclampsia. Trace Elements and Electrolytes, 2014, 31, 85.	0.1	0
81	ErnÃhrungsbedingte Risiken sind die wichtigsten Faktoren fÃ¼r chronische Erkrankungen. Schweizerische Zeitschrift FÃ¼r GanzheitsMedizin, 2017, 29, 258-259.	0.0	0
82	Effects of dietary protein-load and alkaline supplementation on acidâ€“base balance and glucose metabolism in healthy elderly. European Journal of Clinical Nutrition, 2020, 74, 48-56.	1.3	0
83	Effects of Zn-Deficiency and Valproate on Isometallothioneins in Fetal Rat Liver. , 1988, , 673-674.		0
84	Transdermal magnesium â€“ myth or reality?. Trace Elements and Electrolytes, 2017, 34, 45-48.	0.1	0
85	Placebo-controlled, double-blind, cross-over study shows fast-acting pharmacokinetic properties of magnesium citrate after single-dose administration. Trace Elements and Electrolytes, 2019, 36, 169-174.	0.1	0
86	SÃure-Basen-Haushalt: latente Azidose als Ursache chronischer Erkrankungen. , 2007, , 25-37.		0