

Jeroen H F De Baaij

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

3,390
citations

218381

26
h-index

149479

56
g-index

85
all docs

85
docs citations

85
times ranked

3721
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnesium in Man: Implications for Health and Disease. <i>Physiological Reviews</i> , 2015, 95, 1-46.	13.1	1,099
2	Hypomagnesemia in Type 2 Diabetes: A Vicious Circle?. <i>Diabetes</i> , 2016, 65, 3-13.	0.3	217
3	Regulation of magnesium balance: lessons learned from human genetic disease. <i>CKJ: Clinical Kidney Journal</i> , 2012, 5, i15-i24.	1.4	123
4	Genetic causes of hypomagnesemia, a clinical overview. <i>Pediatric Nephrology</i> , 2017, 32, 1123-1135.	0.9	123
5	CNNM2 Mutations Cause Impaired Brain Development and Seizures in Patients with Hypomagnesemia. <i>PLoS Genetics</i> , 2014, 10, e1004267.	1.5	118
6	Membrane Topology and Intracellular Processing of Cyclin M2 (CNNM2). <i>Journal of Biological Chemistry</i> , 2012, 287, 13644-13655.	1.6	86
7	Magnesium prevents vascular calcification in vitro by inhibition of hydroxyapatite crystal formation. <i>Scientific Reports</i> , 2018, 8, 2069.	1.6	82
8	Magnesium Counteracts Vascular Calcification. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 1431-1445.	1.1	81
9	Mutations in PCBD1 Cause Hypomagnesemia and Renal Magnesium Wasting. <i>Journal of the American Society of Nephrology: JASN</i> , 2014, 25, 574-586.	3.0	68
10	Serum magnesium and the risk of prediabetes: a population-based cohort study. <i>Diabetologia</i> , 2017, 60, 843-853.	2.9	68
11	Determinants of hypomagnesemia in patients with type 2 diabetes mellitus. <i>European Journal of Endocrinology</i> , 2017, 176, 11-19.	1.9	59
12	Recurrent FXVD2 p.Gly41Arg mutation in patients with isolated dominant hypomagnesaemia. <i>Nephrology Dialysis Transplantation</i> , 2015, 30, 952-957.	0.4	51
13	Identification of SLC41A3 as a novel player in magnesium homeostasis. <i>Scientific Reports</i> , 2016, 6, 28565.	1.6	50
14	Magnesium prevents vascular calcification in <i>Klotho</i> deficiency. <i>Kidney International</i> , 2020, 97, 487-501.	2.6	50
15	Elucidation of the distal convoluted tubule transcriptome identifies new candidate genes involved in renal Mg ²⁺ handling. <i>American Journal of Physiology - Renal Physiology</i> , 2013, 305, F1563-F1573.	1.3	46
16	Hypomagnesemia as First Clinical Manifestation of ADTKD-HNF1B: A Case Series and Literature Review. <i>American Journal of Nephrology</i> , 2015, 42, 85-90.	1.4	46
17	Defects in KCNJ16 Cause a Novel Tubulopathy with Hypokalemia, Salt Wasting, Disturbed Acid-Base Homeostasis, and Sensorineural Deafness. <i>Journal of the American Society of Nephrology: JASN</i> , 2021, 32, 1498-1512.	3.0	46
18	CrossTalk opposing view: CNNM proteins are not Na ⁺ /Mg ²⁺ exchangers but Mg ²⁺ transport regulators playing a central role in transepithelial Mg ²⁺ (re)absorption. <i>Journal of Physiology</i> , 2018, 596, 747-750.	1.3	45

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19	Calcioprotein particle inhibition explains magnesium-mediated protection against vascular calcification. <i>Nephrology Dialysis Transplantation</i> , 2020, 35, 765-773.	0.4	43
20	Loss of transcriptional activation of the potassium channel Kir5.1 by HNF1 β drives autosomal dominant tubulointerstitial kidney disease. <i>Kidney International</i> , 2017, 92, 1145-1156.	2.6	41
21	The rise and fall of novel renal magnesium transporters. <i>American Journal of Physiology - Renal Physiology</i> , 2018, 314, F1027-F1033.	1.3	40
22	Inhibition of PRL-2 β -CNNM3 Protein Complex Formation Decreases Breast Cancer Proliferation and Tumor Growth. <i>Journal of Biological Chemistry</i> , 2016, 291, 10716-10725.	1.6	39
23	Genome-Wide Meta-Analysis Unravels Interactions between Magnesium Homeostasis and Metabolic Phenotypes. <i>Journal of the American Society of Nephrology: JASN</i> , 2018, 29, 335-348.	3.0	34
24	Low gut microbiota diversity and dietary magnesium intake are associated with the development of PPI α -induced hypomagnesemia. <i>FASEB Journal</i> , 2019, 33, 11235-11246.	0.2	32
25	Mechanisms of proton pump inhibitor α -induced hypomagnesemia. <i>Acta Physiologica</i> , 2022, 235, .	1.8	31
26	Common single nucleotide polymorphisms in transient receptor potential melastatin type 6 increase the risk for proton pump inhibitor-induced hypomagnesemia. <i>Pharmacogenetics and Genomics</i> , 2017, 27, 83-88.	0.7	29
27	SLC41A1 is essential for magnesium homeostasis in vivo. <i>Pflugers Archiv European Journal of Physiology</i> , 2019, 471, 845-860.	1.3	29
28	The art of magnesium transport. <i>Magnesium Research</i> , 2015, 28, 85-91.	0.4	28
29	P2X4 receptor regulation of transient receptor potential melastatin type 6 (TRPM6) Mg $^{2+}$ channels. <i>Pflugers Archiv European Journal of Physiology</i> , 2014, 466, 1941-1952.	1.3	27
30	Mechanisms coupling sodium and magnesium reabsorption in the distal convoluted tubule of the kidney. <i>Acta Physiologica</i> , 2021, 231, e13528.	1.8	27
31	Citelson-Like Syndrome Caused by Pathogenic Variants in mtDNA. <i>Journal of the American Society of Nephrology: JASN</i> , 2022, 33, 305-325.	3.0	26
32	Dietary Inulin Fibers Prevent Proton-Pump Inhibitor (PPI)-Induced Hypocalcemia in Mice. <i>PLoS ONE</i> , 2015, 10, e0138881.	1.1	24
33	mTOR-Activating Mutations in RRAGD Are Causative for Kidney Tubulopathy and Cardiomyopathy. <i>Journal of the American Society of Nephrology: JASN</i> , 2021, 32, 2885-2899.	3.0	24
34	A de novo β -KCNA1 β Mutation in a Patient with Tetany and Hypomagnesemia. <i>Nephron</i> , 2018, 139, 359-366.	0.9	22
35	Magnesium to prevent kidney disease α -associated vascular calcification: crystal clear?. <i>Nephrology Dialysis Transplantation</i> , 2022, 37, 421-429.	0.4	22
36	Regulation of Mg $^{2+}$ Reabsorption and Transient Receptor Potential Melastatin Type 6 Activity by cAMP Signaling. <i>Journal of the American Society of Nephrology: JASN</i> , 2016, 27, 804-813.	3.0	21

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37	The phenotypic and genetic spectrum of patients with heterozygous mutations in cyclin M2 (CNNM2). <i>Human Mutation</i> , 2021, 42, 473-486.	1.1	21
38	Serum Magnesium Is Inversely Associated With Heart Failure, Atrial Fibrillation, and Microvascular Complications in Type 2 Diabetes. <i>Diabetes Care</i> , 2021, 44, 1757-1765.	4.3	21
39	Structural and functional comparison of magnesium transporters throughout evolution. <i>Cellular and Molecular Life Sciences</i> , 2022, 79, .	2.4	21
40	The Notch Pathway Attenuates Interleukin 1 β (IL1 β)-mediated Induction of Adenylyl Cyclase 8 (AC8) Expression during Vascular Smooth Muscle Cell (VSMC) Trans-differentiation. <i>Journal of Biological Chemistry</i> , 2012, 287, 24978-24989.	1.6	20
41	Transcription factor HNF1 β regulates expression of the calcium-sensing receptor in the thick ascending limb of the kidney. <i>American Journal of Physiology - Renal Physiology</i> , 2018, 315, F27-F35.	1.3	18
42	Cyclin M2 (CNNM2) knockout mice show mild hypomagnesaemia and developmental defects. <i>Scientific Reports</i> , 2021, 11, 8217.	1.6	18
43	ARL15 modulates magnesium homeostasis through N-glycosylation of CNNMs. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 5427-5445.	2.4	18
44	CNNM proteins selectively bind to the TRPM7 channel to stimulate divalent cation entry into cells. <i>PLoS Biology</i> , 2021, 19, e3001496.	2.6	18
45	Magnesium deficiency prevents high-fat-diet-induced obesity in mice. <i>Diabetologia</i> , 2018, 61, 2030-2042.	2.9	16
46	Low extracellular magnesium does not impair glucose-stimulated insulin secretion. <i>PLoS ONE</i> , 2019, 14, e0217925.	1.1	16
47	Genetics of renovascular hypertension in children. <i>Journal of Hypertension</i> , 2020, 38, 1964-1970.	0.3	15
48	Metformin regulates TRPM6, a potential explanation for magnesium imbalance in type 2 diabetes patients. <i>Canadian Journal of Physiology and Pharmacology</i> , 2020, 98, 400-411.	0.7	15
49	The genetic spectrum of Gitelman(-like) syndromes. <i>Current Opinion in Nephrology and Hypertension</i> , 2022, 31, 508-515.	1.0	15
50	Inulin significantly improves serum magnesium levels in proton pump inhibitor-induced hypomagnesaemia. <i>Alimentary Pharmacology and Therapeutics</i> , 2016, 43, 1178-1185.	1.9	14
51	Magnesium and calciprotein particles in vascular calcification. <i>Current Opinion in Nephrology and Hypertension</i> , 2019, 28, 368-374.	1.0	14
52	Increased NEFA levels reduce blood Mg ²⁺ in hypertriglycerolaemic states via direct binding of NEFA to Mg ²⁺ . <i>Diabetologia</i> , 2019, 62, 311-321.	2.9	14
53	Flavaglines Stimulate Transient Receptor Potential Melastatin Type 6 (TRPM6) Channel Activity. <i>PLoS ONE</i> , 2015, 10, e0119028.	1.1	13
54	Effect of Dapagliflozin Treatment on the Expression of Renal Sodium Transporters/Channels on High-Fat Diet Diabetic Mice. <i>Nephron</i> , 2019, 142, 51-60.	0.9	13

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55	Renal phospholipidosis and impaired magnesium handling in high-fat diet-fed mice. <i>FASEB Journal</i> , 2019, 33, 7192-7201.	0.2	12
56	Genetic and drug-induced hypomagnesemia: different cause, same mechanism. <i>Proceedings of the Nutrition Society</i> , 2021, 80, 327-338.	0.4	11
57	Development of a villi-like micropatterned porous membrane for intestinal magnesium and calcium uptake studies. <i>Acta Biomaterialia</i> , 2019, 99, 110-120.	4.1	10
58	Diabetes-induced hypomagnesemia is not modulated by metformin treatment in mice. <i>Scientific Reports</i> , 2019, 9, 1770.	1.6	9
59	P2X6 Knockout Mice Exhibit Normal Electrolyte Homeostasis. <i>PLoS ONE</i> , 2016, 11, e0156803.	1.1	7
60	The association between hypomagnesemia and poor glycaemic control in type 1 diabetes is limited to insulin resistant individuals. <i>Scientific Reports</i> , 2022, 12, 6433.	1.6	7
61	Possible role for rare <i>TRPM7</i> variants in patients with hypomagnesaemia with secondary hypocalcaemia. <i>Nephrology Dialysis Transplantation</i> , 2023, 38, 679-690.	0.4	6
62	Mechanisms of ion transport regulation by HNF1 β in the kidney: beyond transcriptional regulation of channels and transporters. <i>Pflügers Archiv European Journal of Physiology</i> , 2022, 474, 901-916.	1.3	5
63	Rebuttal from Francisco J. Arjona and Jeroen H. F. de Baaij. <i>Journal of Physiology</i> , 2018, 596, 753-754.	1.3	4
64	Dietary Mg ²⁺ Intake and the Na ⁺ /Mg ²⁺ Exchanger SLC41A1 Influence Components of Mitochondrial Energetics in Murine Cardiomyocytes. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8221.	1.8	4
65	Diagnostic Dilemma in an Adolescent Girl with an Eating Disorder, Intellectual Disability, and Hypomagnesemia. <i>Nephron</i> , 2021, 145, 717-720.	0.9	4
66	Low plasma magnesium concentration and future abdominal aortic calcifications in moderate chronic kidney disease. <i>BMC Nephrology</i> , 2021, 22, 71.	0.8	3
67	Colonic expression of calcium transporter TRPV6 is regulated by dietary sodium butyrate. <i>Pflügers Archiv European Journal of Physiology</i> , 2022, 474, 293-302.	1.3	3
68	FAM111A is dispensable for electrolyte homeostasis in mice. <i>Scientific Reports</i> , 2022, 12, .	1.6	3
69	Phosphate: a novel risk factor for cardiovascular disease and CKD progression. <i>Nephrology Dialysis Transplantation</i> , 2013, 28, i66-i66.	0.4	1
70	Low serum magnesium as a risk factor for peripheral artery disease in chronic kidney disease: an open verdict. <i>Nephrology Dialysis Transplantation</i> , 2020, 35, 1831-1833.	0.4	1
71	Bifunctional protein PCBD2 operates as a co-factor for hepatocyte nuclear factor 1 β and modulates gene transcription. <i>FASEB Journal</i> , 2021, 35, e21366.	0.2	1
72	153 Regulation of corticosteroid binding globulin (CBG) in the inflammatory context of cystic fibrosis. <i>Journal of Cystic Fibrosis</i> , 2012, 11, S95.	0.3	0

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73	The Notch pathway attenuates interleukin 1 β (IL1 β)-mediated induction of adenylyl cyclase 8 (AC8) expression during vascular smooth muscle cell (VSMC) trans-differentiation.. Journal of Biological Chemistry, 2013, 288, 1278.	1.6	0
74	PHYSIOLOGY / BASIC. Nephrology Dialysis Transplantation, 2014, 29, iii53-iii53.	0.4	0
75	Functional tests to guide management in an adult with loss of function of type-1 angiotensin II receptor. Pediatric Nephrology, 2021, 36, 2731-2737.	0.9	0
76	The role of Transcription Factor Hepatocyte Nuclear Factor 1 β in a Transcriptional Network Regulating Cell Polarity in Epithelial Kidney Cells. FASEB Journal, 2021, 35, .	0.2	0
77	ARL15 Regulates CNNM2-dependent Mg 2+ Transport by Modulating its N-linked Glycosylation. FASEB Journal, 2020, 34, 1-1.	0.2	0
78	Calcioprotein Particle Inhibition Explains Magnesium-mediated Protection against Vascular Calcification. FASEB Journal, 2020, 34, 1-1.	0.2	0
79	Author's Reply: The Subcellular Localization of RRAGD. Journal of the American Society of Nephrology: JASN, 2022, , ASN.2022030252.	3.0	0
80	Citelman-like syndrome caused by pathogenic variants in mitochondrial DNA. FASEB Journal, 2022, 36, .	0.2	0
81	Framework From a Multidisciplinary Approach for Transitioning Variants of Unknown Significance From Clinical Genetic Testing in Kidney Disease to a Definitive Classification. Kidney International Reports, 2022, , .	0.4	0