RenÃ© J M Bindels

List of Publications by Year
in descending order

244 papers	16,785 citations	13854 67 h-index	18633 119 g-index
245 all docs	245 docs citations	245 times ranked	10787 citing authors

#	Article	IF	Citations
1	Magnesium in Man: Implications for Health and Disease. Physiological Reviews, 2015, 95, 1-46.	13.1	1,099
2	Calcium Absorption Across Epithelia. Physiological Reviews, 2005, 85, 373-422.	13.1	746
3	TRPM6 Forms the Mg2+ Influx Channel Involved in Intestinal and Renal Mg2+ Absorption. Journal of Biological Chemistry, 2004, 279, 19-25.	1.6	552
4	Molecular Identification of the Apical Ca2+Channel in 1,25-Dihydroxyvitamin D3-responsive Epithelia. Journal of Biological Chemistry, 1999, 274, 8375-8378.	1.6	534
5	Enhanced passive Ca2+ reabsorption and reduced Mg2+ channel abundance explains thiazide-induced hypocalciuria and hypomagnesemia. Journal of Clinical Investigation, 2005, 115, 1651-1658.	3.9	410
6	Renal Ca2+ wasting, hyperabsorption, and reduced bone thickness in mice lacking TRPV5. Journal of Clinical Investigation, 2003, 112, 1906-1914.	3.9	406
7	Distribution of transcellular calcium and sodium transport pathways along mouse distal nephron. American Journal of Physiology - Renal Physiology, 2001, 281, F1021-F1027.	1.3	297
8	Permeation and Gating Properties of the Novel Epithelial Ca2+ Channel. Journal of Biological Chemistry, 2000, 275, 3963-3969.	1.6	288
9	Functional expression of the epithelial Ca2+ channels (TRPV5 and TRPV6) requires association of the S100A10-annexin 2 complex. EMBO Journal, 2003, 22, 1478-1487.	3.5	253
10	Dominant isolated renal magnesium loss is caused by misrouting of the Na+,K+-ATPase Î³-subunit. Nature Genetics, 2000, 26, 265-266.	9.4	234
11	Modulation of renal Ca2+transport protein genes by dietary Ca2+and 1,25â€dihydroxyvitamin D3in 25hydroxyvitamin D3â€1Î±â€hydroxylase knockout mice. FASEB Journal, 2002, 16, 1398-1406.	0.2	228
12	Molecular Mechanism of Active Ca2+Reabsorption in the Distal Nephron. Annual Review of Physiology, 2002, 64, 529-549.	5.6	221
13	Calcitriol Controls the Epithelial Calcium Channel in Kidney. Journal of the American Society of Nephrology: JASN, 2001, 12, 1342-1349.	3.0	220
14	Hypomagnesemia in Type 2 Diabetes: A Vicious Circle?. Diabetes, 2016, 65, 3-13.	0.3	217
15	CaT1 and the Calcium Release-activated Calcium Channel Manifest Distinct Pore Properties. Journal of Biological Chemistry, 2001, 276, 47767-47770.	1.6	212
16	Renal Ca2+ wasting, hyperabsorption, and reduced bone thickness in mice lacking TRPV5. Journal of Clinical Investigation, 2003, 112, 1906-1914.	3.9	202
17	Localization of the Epithelial Ca2+ Channel in Rabbit Kidney and Intestine. Journal of the American Society of Nephrology: JASN, 2000, 11, 1171-1178.	3.0	196
18	The epithelial calcium channels, TRPV5 & TRPV6: from identification towards regulation. Cell Calcium, 2003, 33, 497-507.	1.1	187

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19	Localization and Regulation of the Epithelial Ca2+ Channel TRPV6 in the Kidney. Journal of the American Society of Nephrology: JASN, 2003, 14, 2731-2740.	3.0	185
20	Angiotensin II Contributes to Podocyte Injury by Increasing TRPC6 Expression via an NFAT-Mediated Positive Feedback Signaling Pathway. American Journal of Pathology, 2011, 179, 1719-1732.	1.9	180
21	Coordinated control of renal Ca2+ transport proteins by parathyroid hormone. Kidney International, 2005, 68, 1708-1721.	2.6	179
22	Downregulation of Ca2+ and Mg2+ Transport Proteins in the Kidney Explains Tacrolimus (FK506)-Induced Hypercalciuria and Hypomagnesemia. Journal of the American Society of Nephrology: JASN, 2004, 15, 549-557.	3.0	169
23	PACSINs Bind to the TRPV4 Cation Channel. Journal of Biological Chemistry, 2006, 281, 18753-18762.	1.6	166
24	The epithelial Ca2+ channel TRPV5 is essential for proper osteoclastic bone resorption. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 17507-17512.	3.3	164
25	The Single Pore Residue Asp542 Determines Ca2+ Permeation and Mg2+ Block of the Epithelial Ca2+ Channel. Journal of Biological Chemistry, 2001, 276, 1020-1025.	1.6	161
26	Epithelial Ca2+ and Mg2+ Channels in Health and Disease. Journal of the American Society of Nephrology: JASN, 2005, 16, 15-26.	3.0	160
27	Regulation of the epithelial Ca²⁺channels in small intestine as studied by quantitative mRNA detection. American Journal of Physiology - Renal Physiology, 2003, 285, G78-G85.	1.6	155
28	Wholeâ€cell and single channel monovalent cation currents through the novel rabbit epithelial Ca 2+ channel ECaC. Journal of Physiology, 2000, 527, 239-248.	1.3	145
29	Acid-Base Status Determines the Renal Expression of Ca2+ and Mg2+ Transport Proteins. Journal of the American Society of Nephrology: JASN, 2006, 17, 617-626.	3.0	142
30	Parathyroid Hormone Activates TRPV5 via PKA-Dependent Phosphorylation. Journal of the American Society of Nephrology: JASN, 2009, 20, 1693-1704.	3.0	142
31	Functional Expression of Mutations in the Human NaCl Cotransporter: Evidence for Impaired Routing Mechanisms in Gitelmanâ€™s Syndrome. Journal of the American Society of Nephrology: JASN, 2002, 13, 1442-1448.	3.0	135
32	1,25-Dihydroxyvitamin D3-Independent Stimulatory Effect of Estrogen on the Expression of ECaC1 in the Kidney. Journal of the American Society of Nephrology: JASN, 2002, 13, 2102-2109.	3.0	132
33	Regulation of the Mouse Epithelial Ca2+ Channel TRPV6 by the Ca2+-sensor Calmodulin. Journal of Biological Chemistry, 2004, 279, 28855-28861.	1.6	126
34	The role of transient receptor potential channels in kidney disease. Nature Reviews Nephrology, 2009, 5, 441-449.	4.1	125
35	De novo gain-of-function and loss-of-function mutations of<i>SCN8A</i>in patients with intellectual disabilities and epilepsy. Journal of Medical Genetics, 2015, 52, 330-337.	1.5	124
36	Regulation of magnesium balance: lessons learned from human genetic disease. CKJ: Clinical Kidney Journal, 2012, 5, i15-i24.	1.4	123

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37	Direct Interaction with Rab11a Targets the Epithelial Ca 2+ Channels TRPV5 and TRPV6 to the Plasma Membrane. Molecular and Cellular Biology, 2006, 26, 303-312.	1.1	120
38	CNNM2 Mutations Cause Impaired Brain Development and Seizures in Patients with Hypomagnesemia. PLoS Genetics, 2014, 10, e1004267.	1.5	118
39	TRPV5 and TRPV6 in Ca2+ (re)absorption: regulating Ca2+ entry at the gate. Pflugers Archiv European Journal of Physiology, 2005, 451, 181-192.	1.3	111
40	Active Ca2+ reabsorption in the connecting tubule. Pflugers Archiv European Journal of Physiology, 2009, 458, 99-109.	1.3	108
41	Thiazide-induced hypocalciuria is accompanied by a decreased expression of Ca2+ transport proteins in kidney. Kidney International, 2003, 64, 555-564.	2.6	107
42	Pharmacological modulation of monovalent cation currents through the epithelial Ca2+ channel ECaC1. British Journal of Pharmacology, 2001, 134, 453-462.	2.7	106
43	The Epithelial Calcium Channel, ECaC, Is Activated by Hyperpolarization and Regulated by Cytosolic Calcium. Biochemical and Biophysical Research Communications, 1999, 261, 488-492.	1.0	104
44	Prednisolone-induced Ca2+ malabsorption is caused by diminished expression of the epithelial Ca2+ channel TRPV6. American Journal of Physiology - Renal Physiology, 2007, 292, G92-G97.	1.6	99
45	Fast and Slow Inactivation Kinetics of the Ca2+Channels ECaC1 and ECaC2 (TRPV5 and TRPV6). Journal of Biological Chemistry, 2002, 277, 30852-30858.	1.6	92
46	Epithelial calcium channels: from identification to function and regulation. Pflugers Archiv European Journal of Physiology, 2003, 446, 304-308.	1.3	90
47	Regulation of TRPV5 and TRPV6 by associated proteins. American Journal of Physiology - Renal Physiology, 2006, 290, F1295-F1302.	1.3	87
48	Calciotropic and Magnesiotropic TRP Channels. Physiology, 2008, 23, 32-40.	1.6	87
49	Membrane Topology and Intracellular Processing of Cyclin M2 (CNNM2). Journal of Biological Chemistry, 2012, 287, 13644-13655.	1.6	86
50	Toward a comprehensive molecular model of active calcium reabsorption. American Journal of Physiology - Renal Physiology, 2000, 278, F352-F360.	1.3	85
51	Hypervitaminosis D Mediates Compensatory Ca2+ Hyperabsorption in TRPV5 Knockout Mice. Journal of the American Society of Nephrology: JASN, 2005, 16, 3188-3195.	3.0	85
52	Molecular basis of epithelial Ca²⁺ and Mg²⁺ transport: insights from the TRP channel family. Journal of Physiology, 2011, 589, 1535-1542.	1.3	84
53	The epithelial calcium channels TRPV5 and TRPV6: regulation and implications for disease. Naunyn-Schmiedeberg's Archives of Pharmacology, 2005, 371, 295-306.	1.4	83
54	Activation of the Ca2+-sensing receptor stimulates the activity of the epithelial Ca2+ channel TRPV5. Cell Calcium, 2009, 45, 331-339.	1.1	82

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55	The Structural Unit of the Thiazide-sensitive NaCl Cotransporter Is a Homodimer. Journal of Biological Chemistry, 2003, 278, 24302-24307.	1.6	81
56	Interleukin 18 function in atherosclerosis is mediated by the interleukin 18 receptor and the Na-Cl co-transporter. Nature Medicine, 2015, 21, 820-826.	15.2	81
57	Regulation of the Epithelial Ca²⁺ Channel TRPV5 by the NHE Regulating Factor NHERF2 and the Serum and Glucocorticoid Inducible Kinase Isoforms SGK1 and SGK3 Expressed in <i>Xenopus oocytes</i>. Cellular Physiology and Biochemistry, 2004, 14, 203-212.	1.1	79
58	Molecular Determinants in TRPV5 Channel Assembly. Journal of Biological Chemistry, 2004, 279, 54304-54311.	1.6	79
59	TRP channelâ€“associated factors are a novel protein family that regulates TRPM8 trafficking and activity. Journal of Cell Biology, 2015, 208, 89-107.	2.3	79
60	Molecular Mechanisms of Calmodulin Action on TRPV5 and Modulation by Parathyroid Hormone. Molecular and Cellular Biology, 2011, 31, 2845-2853.	1.1	78
61	TRPV5: an ingeniously controlled calcium channel. Kidney International, 2008, 74, 1241-1246.	2.6	76
62	Pore properties and ionic block of the rabbit epithelial calcium channel expressed in HEK 293 cells. Journal of Physiology, 2001, 530, 183-191.	1.3	73
63	Transient Receptor Potential Melastatin 6 Knockout Mice Are Lethal whereas Heterozygous Deletion Results in Mild Hypomagnesemia. Nephron Physiology, 2011, 117, p11-p19.	1.5	72
64	Gene Structure and Chromosomal Mapping of Human Epithelial Calcium Channel. Biochemical and Biophysical Research Communications, 2000, 275, 47-52.	1.0	71
65	Tissue kallikrein stimulates Ca2+ reabsorption via PKC-dependent plasma membrane accumulation of TRPV5. EMBO Journal, 2006, 25, 4707-4716.	3.5	71
66	Methionine Sulfoxide Reductase B1 (MsrB1) Recovers TRPM6 Channel Activity during Oxidative Stress. Journal of Biological Chemistry, 2010, 285, 26081-26087.	1.6	71
67	(Patho)physiological implications of the novel epithelial Ca2+ channels TRPV5 and TRPV6. Pflugers Archiv European Journal of Physiology, 2003, 446, 401-409.	1.3	70
68	Hormone-stimulated Ca2+ reabsorption in rabbit kidney cortical collecting system is cAMP-independent and involves a phorbol ester-insensitive PKC isotype. Kidney International, 1999, 55, 225-233.	2.6	68
69	Mutations in PCBD1 Cause Hypomagnesemia and Renal Magnesium Wasting. Journal of the American Society of Nephrology: JASN, 2014, 25, 574-586.	3.0	68
70	RACK1 Inhibits TRPM6 Activity via Phosphorylation of the Fused Î±-Kinase Domain. Current Biology, 2008, 18, 168-176.	1.8	67
71	80K-H as a New Ca2+ Sensor Regulating the Activity of the Epithelial Ca2+ Channel Transient Receptor Potential Cation Channel V5 (TRPV5). Journal of Biological Chemistry, 2004, 279, 26351-26357.	1.6	65
72	HNF-1B specifically regulates the transcription of the Î³a-subunit of the Na+/K+-ATPase. Biochemical and Biophysical Research Communications, 2011, 404, 284-290.	1.0	64

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73	Testosterone increases urinary calcium excretion and inhibits expression of renal calcium transport proteins. Kidney International, 2010, 77, 601-608.	2.6	63
74	Mutations in the Human Na-K-2Cl Cotransporter (NKCC2) Identified in Bartter Syndrome Type I Consistently Result in Nonfunctional Transporters. Journal of the American Society of Nephrology: JASN, 2003, 14, 1419-1426.	3.0	61
75	Requirement of PDZ Domains for the Stimulation of the Epithelial Ca²⁺ Channel TRPV5 by the NHE Regulating Factor NHERF2 and the Serum and Glucocorticoid Inducible Kinase SGK1. Cellular Physiology and Biochemistry, 2005, 15, 175-182.	1.1	61
76	New molecular players facilitating Mg2+ reabsorption in the distal convoluted tubule. Kidney International, 2010, 77, 17-22.	2.6	61
77	TRP channels in kidney disease. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2007, 1772, 928-936.	1.8	60
78	Learning Physiology from Inherited Kidney Disorders. Physiological Reviews, 2019, 99, 1575-1653.	13.1	60
79	Regulation of gene expression by dietary Ca2+ in kidneys of 25-hydroxyvitamin D3-1Î±-hydroxylase knockout mice. Kidney International, 2004, 65, 531-539.	2.6	59
80	Functional TRPV6 channels are crucial for transepithelial Ca²⁺absorption. American Journal of Physiology - Renal Physiology, 2012, 303, G879-G885.	1.6	59
81	Determinants of hypomagnesemia in patients with type 2 diabetes mellitus. European Journal of Endocrinology, 2017, 176, 11-19.	1.9	59
82	ECaC: the gatekeeper of transepithelial Ca2+ transport. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2002, 1600, 6-11.	1.1	58
83	The carboxyl terminus of the epithelial Ca2+ channel ECaC1 is involved in Ca2+-dependent inactivation. Pflugers Archiv European Journal of Physiology, 2003, 445, 584-588.	1.3	56
84	Tissue Kallikreinâ€“Deficient Mice Display a Defect in Renal Tubular Calcium Absorption. Journal of the American Society of Nephrology: JASN, 2005, 16, 3602-3610.	3.0	54
85	Comparing Approaches to Normalize, Quantify, and Characterize Urinary Extracellular Vesicles. Journal of the American Society of Nephrology: JASN, 2021, 32, 1210-1226.	3.0	53
86	Age-dependent alterations in Ca2+ homeostasis: role of TRPV5 and TRPV6. American Journal of Physiology - Renal Physiology, 2006, 291, F1177-F1183.	1.3	52
87	Regulation of the epithelial Ca2+ channels TRPV5 and TRPV6 by 1Î±,25-dihydroxy Vitamin D3 and dietary Ca2+. Journal of Steroid Biochemistry and Molecular Biology, 2004, 89-90, 303-308.	1.2	51
88	Recurrent FXYD2 p.Gly41Arg mutation in patients with isolated dominant hypomagnesaemia. Nephrology Dialysis Transplantation, 2015, 30, 952-957.	0.4	51
89	Functional Analysis of the Kv1.1 N255D Mutation Associated with Autosomal Dominant Hypomagnesemia. Journal of Biological Chemistry, 2010, 285, 171-178.	1.6	50
90	Cisplatin-induced injury of the renal distal convoluted tubule is associated with hypomagnesaemia in mice. Nephrology Dialysis Transplantation, 2013, 28, 879-889.	0.4	50

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91	Identification of SLC41A3 as a novel player in magnesium homeostasis. Scientific Reports, 2016, 6, 28565.	1.6	50
92	Expression and immunolocalization of multidrug resistance protein 2 in rabbit small intestine. European Journal of Pharmacology, 2000, 400, 195-198.	1.7	49
93	Dimeric Architecture of the Human Bumetanide-Sensitive Na-K-Cl Co-transporter. Journal of the American Society of Nephrology: JASN, 2003, 14, 3039-3046.	3.0	49
94	A molecular update on pseudohypoaldosteronism type II. American Journal of Physiology - Renal Physiology, 2013, 305, F1513-F1520.	1.3	49
95	Effects of vitamin D compounds on renal and intestinal Ca2+ transport proteins in 25-hydroxyvitamin D3-1Î±-hydroxylase knockout mice1. Kidney International, 2004, 66, 1082-1089.	2.6	48
96	Role of the Î±-Kinase Domain in Transient Receptor Potential Melastatin 6 Channel and Regulation by Intracellular ATP. Journal of Biological Chemistry, 2008, 283, 19999-20007.	1.6	48
97	New TRPC6 gain-of-function mutation in a non-consanguineous Dutch family with late-onset focal segmental glomerulosclerosis. Nephrology Dialysis Transplantation, 2013, 28, 1830-1838.	0.4	47
98	Segmental transport of Ca²⁺and Mg²⁺along the gastrointestinal tract. American Journal of Physiology - Renal Physiology, 2015, 308, G206-G216.	1.6	47
99	Recent advances in renal tubular calcium reabsorption. Current Opinion in Nephrology and Hypertension, 2006, 15, 524-529.	1.0	46
100	Elucidation of the distal convoluted tubule transcriptome identifies new candidate genes involved in renal Mg²⁺ handling. American Journal of Physiology - Renal Physiology, 2013, 305, F1563-F1573.	1.3	46
101	Shedding of klotho by ADAMs in the kidney. American Journal of Physiology - Renal Physiology, 2015, 309, F359-F368.	1.3	46
102	Apical and basolateral expression of Aquaporin-1 in transfected MDCK and LLC-PK cells and functional evaluation of their transcellular osmotic water permeabilities. Pflugers Archiv European Journal of Physiology, 1997, 433, 780-787.	1.3	45
103	Aromatase Deficiency Causes Altered Expression of Molecules Critical for Calcium Reabsorption in the Kidneys of Female Mice. Journal of Bone and Mineral Research, 2007, 22, 1893-1902.	3.1	45
104	Sensing mechanisms involved in Ca2+ and Mg2+ homeostasis. Kidney International, 2012, 82, 1157-1166.	2.6	45
105	Vitamin D Down-Regulates TRPC6 Expression in Podocyte Injury and Proteinuric Glomerular Disease. American Journal of Pathology, 2013, 182, 1196-1204.	1.9	44
106	Uromodulin regulates renal magnesium homeostasis through the ion channel transient receptor potential melastatin 6 (TRPM6). Journal of Biological Chemistry, 2018, 293, 16488-16502.	1.6	43
107	Epithelial Ca2+ channel (ECAC1) in autosomal dominant idiopathic hypercalciuria. Nephrology Dialysis Transplantation, 2002, 17, 1614-1620.	0.4	42
108	Structural analysis of calmodulin binding to ion channels demonstrates the role of its plasticity in regulation. Pflugers Archiv European Journal of Physiology, 2013, 465, 1507-1519.	1.3	42

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109	The Epithelial Calcium Channel TRPV5 Is Regulated Differentially by Klotho and Sialidase. Journal of Biological Chemistry, 2013, 288, 29238-29246.	1.6	42
110	COLD PRESERVATION OF ISOLATED RABBIT PROXIMAL TUBULES INDUCES RADICAL-MEDIATED CELL INJURY1. Transplantation, 1998, 65, 625-632.	0.5	42
111	Epithelial calcium channel: gate-keeper of active calcium reabsorption. Current Opinion in Nephrology and Hypertension, 2000, 9, 335-340.	1.0	41
112	Murine TNFÎ"ARE CrohnÊ¼s disease model displays diminished expression of intestinal Ca2+ transporters. Inflammatory Bowel Diseases, 2008, 14, 803-811.	0.9	41
113	Loss of transcriptional activation of the potassium channel Kir5.1 by HNF1Î² drives autosomal dominant tubulointerstitial kidney disease. Kidney International, 2017, 92, 1145-1156.	2.6	41
114	Sensing of tubular flow and renal electrolyte transport. Nature Reviews Nephrology, 2020, 16, 337-351.	4.1	41
115	The rise and fall of novel renal magnesium transporters. American Journal of Physiology - Renal Physiology, 2018, 314, F1027-F1033.	1.3	40
116	Copper toxicity in cultured human skeletal muscle cells: the involvement of Na+/K+-ATPase and the Na+/Ca2+-exchanger. Pflugers Archiv European Journal of Physiology, 1994, 428, 461-467.	1.3	39
117	Vasopressin-stimulated Ca 2+ reabsorption in rabbit cortical collecting system: effects on cAMP and cytosolic Ca 2+. Pflugers Archiv European Journal of Physiology, 1996, 433, 109-115.	1.3	39
118	Localization and Functional Characterization of Glycosaminoglycan Domains in the Normal Human Kidney as Revealed by Phage Display-Derived Single Chain Antibodies. Journal of the American Society of Nephrology: JASN, 2005, 16, 1279-1288.	3.0	39
119	The epithelial sodium channel (ENaC) is intracellularly located as a tetramer. Pflugers Archiv European Journal of Physiology, 2002, 444, 549-555.	1.3	37
120	Characterization of a murine renal distal convoluted tubule cell line for the study of transcellular calcium transport. American Journal of Physiology - Renal Physiology, 2004, 286, F483-F489.	1.3	37
121	The immunophilin FKBP52 inhibits the activity of the epithelial Ca2+ channel TRPV5. American Journal of Physiology - Renal Physiology, 2006, 290, F1253-F1259.	1.3	36
122	Insight into renal Mg2+ transporters. Current Opinion in Nephrology and Hypertension, 2011, 20, 169-176.	1.0	36
123	The transient receptor potential channel TRPV6 is dynamically expressed in bone cells but is not crucial for bone mineralization in mice. Journal of Cellular Physiology, 2012, 227, 1951-1959.	2.0	36
124	Time-dependent regulation by aldosterone of the amiloride-sensitive Na + channel in rabbit kidney. Pflugers Archiv European Journal of Physiology, 1999, 438, 354-360.	1.3	35
125	TRPV5 Is Internalized via Clathrin-dependent Endocytosis to Enter a Ca2+-controlled Recycling Pathway. Journal of Biological Chemistry, 2008, 283, 4077-4086.	1.6	35
126	Mg2+ homeostasis. Current Opinion in Nephrology and Hypertension, 2014, 23, 361-369.	1.0	35

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127	Autosomal Dominant Hypercalciuria in a Mouse Model Due to a Mutation of the Epithelial Calcium Channel, TRPV5. PLoS ONE, 2013, 8, e55412.	1.1	35
128	Genome-Wide Meta-Analysis Unravels Interactions between Magnesium Homeostasis and Metabolic Phenotypes. Journal of the American Society of Nephrology: JASN, 2018, 29, 335-348.	3.0	34
129	Regulation of the epithelial calcium channel TRPV5 by extracellular factors. Current Opinion in Nephrology and Hypertension, 2007, 16, 319-324.	1.0	33
130	Function and Regulation of the Na+-Ca2+ Exchanger NCX3 Splice Variants in Brain and Skeletal Muscle. Journal of Biological Chemistry, 2014, 289, 11293-11303.	1.6	33
131	Coordinated regulation of TRPV5-mediated Ca2+ transport in primary distal convolution cultures. Pflugers Archiv European Journal of Physiology, 2014, 466, 2077-2087.	1.3	33
132	Interaction of the epithelial Ca2+ channels TRPV5 and TRPV6 with the intestine- and kidney-enriched PDZ protein NHERF4. Pflugers Archiv European Journal of Physiology, 2006, 452, 407-417.	1.3	32
133	Low gut microbiota diversity and dietary magnesium intake are associated with the development of PPIâ€induced hypomagnesemia. FASEB Journal, 2019, 33, 11235-11246.	0.2	32
134	Epithelial Mg2+ channel TRPM6: insight into theÂmolecular regulation. Magnesium Research, 2009, 22, 127-132.	0.4	31
135	Regulation of magnesium reabsorption in DCT. Pflugers Archiv European Journal of Physiology, 2009, 458, 89-98.	1.3	31
136	A primary culture of distal convoluted tubules expressing functional thiazide-sensitive NaCl transport. American Journal of Physiology - Renal Physiology, 2012, 303, F886-F892.	1.3	31
137	The Kidney Sodium-Calcium Exchangera. Annals of the New York Academy of Sciences, 1996, 779, 58-72.	1.8	30
138	Expression of the Novel Epithelial Ca2+ Channel ECaC1 in Rat Pancreatic Islets. Journal of Histochemistry and Cytochemistry, 2002, 50, 789-798.	1.3	30
139	Identification of BSPRY as a Novel Auxiliary Protein Inhibiting TRPV5 Activity. Journal of the American Society of Nephrology: JASN, 2006, 17, 26-30.	3.0	30
140	The impact of formative testing on study behaviour and study performance of (bio)medical students: a smartphone application intervention study. BMC Medical Education, 2015, 15, 72.	1.0	30
141	NaCl cotransporter abundance in urinary vesicles is increased by calcineurin inhibitors and predicts thiazide sensitivity. PLoS ONE, 2017, 12, e0176220.	1.1	30
142	Common single nucleotide polymorphisms in transient receptor potential melastatin type 6 increase the risk for proton pump inhibitor-induced hypomagnesemia. Pharmacogenetics and Genomics, 2017, 27, 83-88.	0.7	29
143	SLC41A1 is essential for magnesium homeostasis in vivo. Pflugers Archiv European Journal of Physiology, 2019, 471, 845-860.	1.3	29
144	Membrane-Initiated Ca2+ Signals Are Reshaped during Propagation to Subcellular Regions. Biophysical Journal, 2001, 81, 57-65.	0.2	28

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145	Novel molecular pathways in renal Mg2+ transport: a guided tour along the nephron. Current Opinion in Nephrology and Hypertension, 2010, 19, 456-462.	1.0	27
146	Evaluation of Hypomagnesemia: Lessons From Disorders of Tubular Transport. American Journal of Kidney Diseases, 2013, 62, 377-383.	2.1	27
147	P2X4 receptor regulation of transient receptor potential melastatin type 6 (TRPM6) Mg2+ channels. Pflugers Archiv European Journal of Physiology, 2014, 466, 1941-1952.	1.3	27
148	Effects of a high-sodium/low-potassium diet on renal calcium, magnesium, and phosphate handling. American Journal of Physiology - Renal Physiology, 2018, 315, F110-F122.	1.3	27
149	Mechanisms coupling sodium and magnesium reabsorption in the distal convoluted tubule of the kidney. Acta Physiologica, 2021, 231, e13528.	1.8	27
150	Functional Expression of the Human Thiazide-Sensitive NaCl Cotransporter in Madin-Darby Canine Kidney Cells. Journal of the American Society of Nephrology: JASN, 2003, 14, 2428-2435.	3.0	26
151	Identification of Nipsnap1 as a novel auxiliary protein inhibiting TRPV6 activity. Pflugers Archiv European Journal of Physiology, 2008, 457, 91-101.	1.3	26
152	Early Development of Hyperparathyroidism Due to Loss of<i>PTH</i>Transcriptional Repression in Patients With HNF1Î² Mutations?. Journal of Clinical Endocrinology and Metabolism, 2013, 98, 4089-4096.	1.8	26
153	Deregulated Renal Calcium and Phosphate Transport during Experimental Kidney Failure. PLoS ONE, 2015, 10, e0142510.	1.1	26
154	Bone Resorption Inhibitor Alendronate Normalizes the Reduced Bone Thickness of TRPV5â^’/â^’ Mice. Journal of Bone and Mineral Research, 2008, 23, 1815-1824.	3.1	25
155	Functional implications of mutations in the human renal outer medullary potassium channel (ROMK2) identified in Bartter syndrome. Pflugers Archiv European Journal of Physiology, 2002, 443, 466-472.	1.3	24
156	Impaired routing of wild type FXYD2 after oligomerisation with FXYD2-G41R might explain the dominant nature of renal hypomagnesemia. Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 398-404.	1.4	24
157	Coexistence of normotensive primary aldosteronism in two patients with Gitelman's syndrome and novel thiazide-sensitive Naâ€“Cl cotransporter mutations. European Journal of Endocrinology, 2009, 161, 275-283.	1.9	24
158	Dietary Inulin Fibers Prevent Proton-Pump Inhibitor (PPI)-Induced Hypocalcemia in Mice. PLoS ONE, 2015, 10, e0138881.	1.1	24
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