Nina Himmerkus

List of Publications by Year
in descending order

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Version: 2024-02-01

58 papers	3,974 citations	159585 30 h-index	161849 54 g-index

61 all docs	61 docs citations	61 times ranked	5207 citing authors

#	Article	IF	Citations
1	Synchronized renal tubular cell death involves ferroptosis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16836-16841.	7.1	801
2	Rip1 (Receptor-interacting protein kinase 1) mediates necroptosis and contributes to renal ischemia/reperfusion injury. Kidney International, 2012, 81, 751-761.	5.2	389
3	Acidified seawater impacts sea urchin larvae pH regulatory systems relevant for calcification. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 18192-18197.	7.1	217
4	Claudin-14 regulates renal Ca⁺⁺transport in response to CaSR signalling via a novel microRNA pathway. EMBO Journal, 2012, 31, 1999-2012.	7.8	212
5	TRP4 (CCE1) Protein Is Part of Native Calcium Release-activated Ca2+-like Channels in Adrenal Cells. Journal of Biological Chemistry, 2000, 275, 23965-23972.	3.4	170
6	Deletion of claudin-10 (Cldn10) in the thick ascending limb impairs paracellular sodium permeability and leads to hypermagnesemia and nephrocalcinosis. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14241-14246.	7.1	129
7	Intrarenal Renin Angiotensin System Revisited. Journal of Biological Chemistry, 2010, 285, 41935-41946.	3.4	128
8	Dysfunction of the key ferroptosis-surveilling systems hypersensitizes mice to tubular necrosis during acute kidney injury. Nature Communications, 2021, 12, 4402.	12.8	116
9	Hyperkalemic hypertensionâ€“associated cullin 3 promotes WNK signaling by degrading KLHL3. Journal of Clinical Investigation, 2014, 124, 4723-4736.	8.2	112
10	The RIP1-Kinase Inhibitor Necrostatin-1 Prevents Osmotic Nephrosis and Contrast-Induced AKI in Mice. Journal of the American Society of Nephrology: JASN, 2013, 24, 1545-1557.	6.1	111
11	TRPV6 and prostate cancer: cancer growth beyond the prostate correlates with increased TRPV6 Ca2+ channel expression. Biochemical and Biophysical Research Communications, 2004, 322, 1359-1363.	2.1	103
12	Deficiency of the Tetraspanin CD63 Associated with Kidney Pathology but Normal Lysosomal Function. Molecular and Cellular Biology, 2009, 29, 1083-1094.	2.3	99
13	Absence of the Î³ Subunit of the Skeletal Muscle Dihydropyridine Receptor Increases L-type Ca2+ Currents and Alters Channel Inactivation Properties. Journal of Biological Chemistry, 2000, 275, 14476-14481.	3.4	95
14	Extracellular K⁺ rapidly controls NaCl cotransporter phosphorylation in the native distal convoluted tubule by Cl^{â^'}â€dependent and independent mechanisms. Journal of Physiology, 2016, 594, 6319-6331.	2.9	90
15	SPAK Differentially Mediates Vasopressin Effects on Sodium Cotransporters. Journal of the American Society of Nephrology: JASN, 2013, 24, 407-418.	6.1	86
16	Nephrocalcinosis (Enamel Renal Syndrome) Caused by Autosomal Recessive FAM20A Mutations. Nephron Physiology, 2013, 122, 1-6.	1.2	84
17	Mosaic expression of claudins in thick ascending limbs of Henle results in spatial separation of paracellular Na ⁺ and Mg ²⁺ transport. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E219-E227.	7.1	84
18	The transient receptor potential, TRP4, cation channel is a novel member of the family of calmodulin binding proteins. Biochemical Journal, 2001, 355, 663-670.	3.7	70

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19	Renal tubular Fas ligand mediates fratricide in cisplatin-induced acute kidney failure. Kidney International, 2011, 79, 169-178.	5.2	55
20	Paracellular transport of phosphate along the intestine. American Journal of Physiology - Renal Physiology, 2019, 317, G233-G241.	3.4	51
21	Epigenetic Regulation of MicroRNAs Controlling CLDN14 Expression as a Mechanism for Renal Calcium Handling. Journal of the American Society of Nephrology: JASN, 2015, 26, 663-676.	6.1	50
22	Phenytoin inhibits necroptosis. Cell Death and Disease, 2018, 9, 359.	6.3	50
23	Renal Deletion of 12 kDa FK506-Binding Protein Attenuates Tacrolimus-Induced Hypertension. Journal of the American Society of Nephrology: JASN, 2016, 27, 1456-1464.	6.1	44
24	Deletion of claudin-10 rescues claudin-16â€“deficient mice from hypomagnesemia and hypercalciuria. Kidney International, 2018, 93, 580-588.	5.2	44
25	Salt and acid-base metabolism in claudin-16 knockdown mice: impact for the pathophysiology of FHHNC patients. American Journal of Physiology - Renal Physiology, 2008, 295, F1641-F1647.	2.7	43
26	Connexin 37 is localized in renal epithelia and responds to changes in dietary salt intake. American Journal of Physiology - Renal Physiology, 2010, 298, F216-F223.	2.7	39
27	Corticomedullary difference in the effects of dietary Ca2+ on tight junction properties in thick ascending limbs of Henleâ€™s loop. Pflugers Archiv European Journal of Physiology, 2016, 468, 293-303.	2.8	39
28	Maintenance of coelomic fluid pH in sea urchins exposed to elevated CO2: the role of body cavity epithelia and stereom dissolution. Marine Biology, 2013, 160, 2631-2645.	1.5	38
29	Furosemide-induced urinary acidification is caused by pronounced H⁺ secretion in the thick ascending limb. American Journal of Physiology - Renal Physiology, 2015, 309, F146-F153.	2.7	38
30	A SLC4 family bicarbonate transporter is critical for intracellular pH regulation and biomineralization in sea urchin embryos. ELife, 2018, 7, .	6.0	37
31	Localization of ion-regulatory epithelia in embryos and hatchlings of two cephalopods. Cell and Tissue Research, 2010, 339, 571-583.	2.9	32
32	Calcineurin and Sorting-Related Receptor with A-Type Repeats Interact to Regulate the Renal Na+-K+-2Clâ¯ Cotransporter. Journal of the American Society of Nephrology: JASN, 2016, 27, 107-119.	6.1	30
33	ILDR1 is important for paracellular water transport and urine concentration mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5271-5276.	7.1	30
34	Insights into Driving Forces and Paracellular Permeability from Claudinâ€16 Knockdown Mouse. Annals of the New York Academy of Sciences, 2009, 1165, 148-151.	3.8	21
35	Calcium regulation of tight junction permeability. Annals of the New York Academy of Sciences, 2012, 1258, 93-99.	3.8	21
36	GRHL2 Is Required for Collecting Duct Epithelial Barrier Function and Renal Osmoregulation. Journal of the American Society of Nephrology: JASN, 2018, 29, 857-868.	6.1	20

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37	Claudin-10a Deficiency Shifts Proximal Tubular Cl- Permeability to Cation Selectivity via Claudin-2 Redistribution. Journal of the American Society of Nephrology: JASN, 2022, 33, 699-717.	6.1	20
38	Vasopressin Increases Urinary Acidification via V1a Receptors in Collecting Duct Intercalated Cells. Journal of the American Society of Nephrology: JASN, 2019, 30, 946-961.	6.1	19
39	Fluconazole Increases Osmotic Water Transport in Renal Collecting Duct through Effects on Aquaporin-2 Trafficking. Journal of the American Society of Nephrology: JASN, 2019, 30, 795-810.	6.1	19
40	Transcription factor HNF1Î² regulates expression of the calcium-sensing receptor in the thick ascending limb of the kidney. American Journal of Physiology - Renal Physiology, 2018, 315, F27-F35.	2.7	18
41	Kidney Single-cell Transcriptomes Predict Spatial Corticomedullary Gene Expression and Tissue Osmolality Gradients. Journal of the American Society of Nephrology: JASN, 2021, 32, 291-306.	6.1	18
42	The Intramembrane Protease SPPL2A Is Critical for Tooth Enamel Formation. Journal of Bone and Mineral Research, 2013, 28, 1622-1630.	2.8	15
43	AVP dynamically increases paracellular Na+ permeability and transcellular NaCl transport in the medullary thick ascending limb of Henleâ€™s loop. Pflugers Archiv European Journal of Physiology, 2017, 469, 149-158.	2.8	15
44	Phosphorylated claudin-16 interacts with Trpv5 and regulates transcellular calcium transport in the kidney. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19176-19186.	7.1	12
45	Intracellular pH regulation in mantle epithelial cells of the Pacific oyster, Crassostrea gigas. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2020, 190, 691-700.	1.5	12
46	Heterogeneity of tight junctions in the thick ascending limb. Annals of the New York Academy of Sciences, 2017, 1405, 5-15.	3.8	11
47	Immunosuppressive calcineurin inhibitor cyclosporine AÂinduces proapoptotic endoplasmic reticulum stress in renal tubular cells. Journal of Biological Chemistry, 2022, 298, 101589.	3.4	7
48	A sea urchin Na+K+2Clâ¯ cotransporter is involved in the maintenance of calcification-relevant cytoplasmic cords in Strongylocentrotus droebachiensis larvae. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2015, 187, 184-192.	1.8	6
49	Claudin-19 Is Regulated by Extracellular Osmolality in Rat Kidney Inner Medullary Collecting Duct Cells. International Journal of Molecular Sciences, 2019, 20, 4401.	4.1	6
50	Human Î²-defensin-2 increases cholinergic response in colon epithelium. Pflugers Archiv European Journal of Physiology, 2010, 460, 177-186.	2.8	5
51	Diuretic state affects ascending thin limb tight junctions. American Journal of Physiology - Renal Physiology, 2018, 314, F190-F195.	2.7	5
52	Carbamazepine affects water and electrolyte homoeostasis in rat--similarities and differences to vasopressin antagonism. Nephrology Dialysis Transplantation, 2012, 27, 3790-3798.	0.7	3
53	Vasopressin lowers renal epoxyeicosatrienoic acid levels by activating soluble epoxide hydrolase. American Journal of Physiology - Renal Physiology, 2016, 311, F1198-F1210.	2.7	2
54	Viewing Cortical Collecting Duct Function Through Phenotype-guided Single-Tubule Proteomics. Function, 2020, 1, zqaa007.	2.3	2

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55	Quantification of FAM20A in human milk and identification of calcium metabolism proteins. Physiological Reports, 2021, 9, e15150.	1.7	1
56	Vasopressin treatment lowers renal outer medullary epoxyeicosatrienoic acid levels in Brattleboro rats. FASEB Journal, 2011, 25, 665.30.	0.5	0
57	Vasopressin V1a Receptor of Renal Collecting Duct Intercalated Cells Mediates Urinary Acidification. FASEB Journal, 2018, 32, 623.1.	0.5	0
58	Vasopressin V1a Receptor of Renal Collecting Duct Intercalated Cells Promotes Urinary Proton Secretion. FASEB Journal, 2019, 33, 862.20.	0.5	0