Robert Todd Alexander

List of Publications by Year
in descending order

90	3,157	159585 30	168389 53
papers	citations	h-index	g-index

92	92	92	4153
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Kidney stones and kidney function loss: a cohort study. BMJ, The, 2012, 345, e5287-e5287.	6.0	238
2	EGF Increases TRPM6 Activity and Surface Expression. Journal of the American Society of Nephrology: JASN, 2009, 20, 78-85.	6.1	160
3	Calcium and phosphate homeostasis: Concerted interplay of new regulators. Annals of Medicine, 2008, 40, 82-91.	3.8	159
4	Molecular Determinants of Magnesium Homeostasis. Journal of the American Society of Nephrology: JASN, 2008, 19, 1451-1458.	6.1	133
5	Traditional and emerging roles for the SLC9 Na+/H+ exchangers. Pflugers Archiv European Journal of Physiology, 2014, 466, 61-76.	2.8	129
6	Kidney Stones and Cardiovascular Events. Clinical Journal of the American Society of Nephrology: CJASN, 2014, 9, 506-512.	4.5	113
7	Klotho Prevents Renal Calcium Loss. Journal of the American Society of Nephrology: JASN, 2009, 20, 2371-2379.	6.1	105
8	Activation of the Ca²⁺-sensing receptor increases renal claudin-14 expression and urinary Ca²⁺ excretion. American Journal of Physiology - Renal Physiology, 2013, 304, F761-F769.	2.7	103
9	Renal Atp6ap2/(Pro)renin Receptor Is Required for Normal Vacuolar H+-ATPase Function but Not for the Renin-Angiotensin System. Journal of the American Society of Nephrology: JASN, 2016, 27, 3320-3330.	6.1	91
10	Inhibition of sodium/hydrogen exchanger 3 in the gastrointestinal tract by tenapanor reduces paracellular phosphate permeability. Science Translational Medicine, 2018, 10, .	12.4	91
11	The epithelial sodium/proton exchanger, NHE3, is necessary for renal and intestinal calcium (re)absorption. American Journal of Physiology - Renal Physiology, 2012, 302, F943-F956.	2.7	83
12	Survival in Pediatric Dialysis and Transplant Patients. Clinical Journal of the American Society of Nephrology: CJASN, 2011, 6, 1094-1099.	4.5	72
13	Effect of diuretics on renal tubular transport of calcium and magnesium. American Journal of Physiology - Renal Physiology, 2017, 312, F998-F1015.	2.7	66
14	Acidosis and Urinary Calcium Excretion: Insights from Genetic Disorders. Journal of the American Society of Nephrology: JASN, 2016, 27, 3511-3520.	6.1	63
15	Claudin-2 deficiency associates with hypercalciuria in mice and human kidney stone disease. Journal of Clinical Investigation, 2020, 130, 1948-1960.	8.2	61
16	The ion channel function of polycystinâ€1 in the polycystinâ€1/polycystinâ€2 complex. EMBO Reports, 2019, 20, e48336.	4.5	59
17	Osmotic cell shrinkage activates ezrin/radixin/moesin (ERM) proteins: activation mechanisms and physiological implications. American Journal of Physiology - Cell Physiology, 2008, 294, C197-C212.	4.6	56
18	Rho GTPases dictate the mobility of the Na/H exchanger NHE3 in epithelia: Role in apical retention and targeting. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12253-12258.	7.1	53

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19	Membrane surface charge dictates the structure and function of the epithelial Na⁺/H⁺exchanger. EMBO Journal, 2011, 30, 679-691.	7.8	53
20	Paracellular calcium transport across renal and intestinal epithelia. Biochemistry and Cell Biology, 2014, 92, 467-480.	2.0	53
21	Tethering, recycling and activation of the epithelial sodiumâ€“proton exchanger, NHE3. Journal of Experimental Biology, 2009, 212, 1630-1637.	1.7	51
22	Double Knockout of the Na+-Driven Clâ¯/HCO3 âˆ’ Exchanger and Na+/Clâ¯ Cotransporter Induces Hypokalemia and Volume Depletion. Journal of the American Society of Nephrology: JASN, 2017, 28, 130-139.	6.1	49
23	Survival and transplantation outcomes of children less than 2 years of age with end-stage renal disease. Pediatric Nephrology, 2012, 27, 1975-1983.	1.7	48
24	A disulfide bond in the TIM23 complex is crucial for voltage gating and mitochondrial protein import. Journal of Cell Biology, 2016, 214, 417-431.	5.2	48
25	Proximal tubular NHEs: sodium, protons and calcium?. American Journal of Physiology - Renal Physiology, 2013, 305, F229-F236.	2.7	42
26	The Na⁺/H⁺exchanger isoform 3 is required for active paracellular and transcellular Ca²⁺transport across murine cecum. American Journal of Physiology - Renal Physiology, 2013, 305, G303-G313.	3.4	37
27	Carbonic anhydrase II binds to and increases the activity of the epithelial sodium-proton exchanger, NHE3. American Journal of Physiology - Renal Physiology, 2015, 309, F383-F392.	2.7	36
28	Substantial practice variation exists in the management of childhood nephrotic syndrome. Pediatric Nephrology, 2013, 28, 2289-2298.	1.7	33
29	Ultrastructural and immunohistochemical localization of plasma membrane Ca²⁺-ATPase 4 in Ca²⁺-transporting epithelia. American Journal of Physiology - Renal Physiology, 2015, 309, F604-F616.	2.7	33
30	Expression and Targeting of CX3CL1 (Fractalkine) in Renal Tubular Epithelial Cells. Journal of the American Society of Nephrology: JASN, 2007, 18, 74-83.	6.1	32
31	Renal Tubular Acidosis. Pediatric Clinics of North America, 2019, 66, 135-157.	1.8	32
32	Membrane Curvature Alters the Activation Kinetics of the Epithelial Na+/H+ Exchanger, NHE3. Journal of Biological Chemistry, 2007, 282, 7376-7384.	3.4	31
33	Claudin-12 Knockout Mice Demonstrate Reduced Proximal Tubule Calcium Permeability. International Journal of Molecular Sciences, 2020, 21, 2074.	4.1	31
34	Claudin-4 forms a paracellular barrier, revealing the interdependence of claudin expression in the loose epithelial cell culture model opossum kidney cells. American Journal of Physiology - Cell Physiology, 2012, 303, C1278-C1291.	4.6	30
35	Expression of transcellular and paracellular calcium and magnesium transport proteins in renal and intestinal epithelia during lactation. American Journal of Physiology - Renal Physiology, 2017, 313, F629-F640.	2.7	28
36	The prevalence of BK viremia and urinary viral shedding in a pediatric renal transplant population: A single-center retrospective analysis. Pediatric Transplantation, 2006, 10, 586-592.	1.0	27

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37	Claudin-2 and claudin-12 form independent, complementary pores required to maintain calcium homeostasis. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	27
38	Activation of the calcium-sensing receptor attenuates TRPV6-dependent intestinal calcium absorption. JCI Insight, 2019, 4, .	5.0	25
39	Increased water flux induced by an aquaporin-1/carbonic anhydrase II interaction. Molecular Biology of the Cell, 2015, 26, 1106-1118.	2.1	24
40	Role of enteroendocrine Lâ€cells in arginine vasopressinâ€mediated inhibition of colonic anion secretion. Journal of Physiology, 2016, 594, 4865-4878.	2.9	24
41	A variant in acis-regulatory element enhances claudin-14 expression and is associated with pediatric-onset hypercalciuria and kidney stones. Human Mutation, 2017, 38, 649-657.	2.5	24
42	Intestinal phosphate absorption: The paracellular pathway predominates?. Experimental Biology and Medicine, 2019, 244, 646-654.	2.4	23
43	Intestinal absorption and renal reabsorption of calcium throughout postnatal development. Experimental Biology and Medicine, 2017, 242, 840-849.	2.4	22
44	Claudin-2 suppresses GEF-H1, RHOA, and MRTF, thereby impacting proliferation and profibrotic phenotype of tubular cells. Journal of Biological Chemistry, 2019, 294, 15446-15465.	3.4	22
45	Clustered phosphatidylinositol 4,5 bisphosphate accumulation and ezrin phosphorylation in response to CLIC5A. Journal of Cell Science, 2014, 127, 5164-78.	2.0	21
46	TRPV6 and Cav1.3 Mediate Distal Small Intestine Calcium Absorption Before Weaning. Cellular and Molecular Gastroenterology and Hepatology, 2019, 8, 625-642.	4.5	21
47	Ezrin Is Required for the Functional Regulation of the Epithelial Sodium Proton Exchanger, NHE3. PLoS ONE, 2013, 8, e55623.	2.5	20
48	Incidence and causes of end-stage renal disease among Aboriginal children and young adults. Cmaj, 2012, 184, E758-E764.	2.0	19
49	Cognitive Enhancement in Infants Associated with Increased Maternal Fruit Intake During Pregnancy: Results from a Birth Cohort Study with Validation in an Animal Model. EBioMedicine, 2016, 8, 331-340.	6.1	19
50	Claudins and nephrolithiasis. Current Opinion in Nephrology and Hypertension, 2018, 27, 268-276.	2.0	18
51	Adaptor protein 1 complexes regulate intracellular trafficking of the kidney anion exchanger 1 in epithelial cells. American Journal of Physiology - Cell Physiology, 2012, 303, C554-C566.	4.6	17
52	Localization and regulation of claudin-14 in experimental models of hypercalcemia. American Journal of Physiology - Renal Physiology, 2021, 320, F74-F86.	2.7	17
53	NHA2 is expressed in distal nephron and regulated by dietary sodium. Journal of Physiology and Biochemistry, 2017, 73, 199-205.	3.0	16
54	Ces1d deficiency protects against high-sucrose diet-induced hepatic triacylglycerol accumulation. Journal of Lipid Research, 2019, 60, 880-891.	4.2	16

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55	Canadian Society of Nephrology Commentary on the Kidney Disease Improving Global Outcomes 2017 Clinical Practice Guideline Update for the Diagnosis, Evaluation, Prevention, and Treatment of Chronic Kidney Disease-Mineral and Bone Disorder. Canadian Journal of Kidney Health and Disease, 2020, 7, 205435812094427.	1.1	16
56	H⁺-ATPase B1 subunit localizes to thick ascending limb and distal convoluted tubule of rodent and human kidney. American Journal of Physiology - Renal Physiology, 2018, 315, F429-F444.	2.7	15
57	Molecular mechanisms altering tubular calcium reabsorption. Pediatric Nephrology, 2022, 37, 707-718.	1.7	15
58	Deficiency of Carbonic Anhydrase II Results in a Urinary Concentrating Defect. Frontiers in Physiology, 2017, 8, 1108.	2.8	14
59	The intermembrane space protein Mix23 is a novel stress-induced mitochondrial import factor. Journal of Biological Chemistry, 2020, 295, 14686-14697.	3.4	14
60	Effects of phospho- and calciotropic hormones on electrolyte transport in the proximal tubule. F1000Research, 2017, 6, 1797.	1.6	13
61	Degradation mechanism of a Golgi-retained distal renal tubular acidosis mutant of the kidney anion exchanger 1 in renal cells. American Journal of Physiology - Cell Physiology, 2014, 307, C296-C307.	4.6	12
62	Thiazide Diuretic Dose and Risk of Kidney Stones in Older Adults: A Retrospective Cohort Study. Canadian Journal of Kidney Health and Disease, 2018, 5, 205435811878748.	1.1	12
63	Antihypertensive medications and the risk of kidney stones in older adults: a retrospective cohort study. Hypertension Research, 2017, 40, 837-842.	2.7	11
64	Nocturnal enuresis in children is associated with differences in autonomic control. Sleep, 2019, 42, .	1.1	10
65	The contribution of regulated colonic calcium absorption to the maintenance of calcium homeostasis. Journal of Steroid Biochemistry and Molecular Biology, 2022, 220, 106098.	2.5	10
66	Increased FoxO3a expression prevents osteoblast differentiation and matrix calcification. Bone Reports, 2019, 10, 100206.	0.4	9
67	NHE8 attenuates Ca²⁺influx into NRK cells and the proximal tubule epithelium. American Journal of Physiology - Renal Physiology, 2019, 317, F240-F253.	2.7	9
68	Regulation of 1 and 24 hydroxylation of vitamin D metabolites in the proximal tubule. Experimental Biology and Medicine, 2022, 247, 1103-1111.	2.4	9
69	Activation of Kinases upon Volume Changes: Role in Cellular Homeostasis. , 2006, 152, 105-124.		8
70	Renal claudin-14 expression is not required for regulating Mg²⁺ balance in mice. American Journal of Physiology - Renal Physiology, 2021, 320, F897-F907.	2.7	8
71	Gentamicin Inhibits Ca2+ Channel TRPV5 and Induces Calciuresis Independent of the Calcium-Sensing Receptorâ€“Claudin-14 Pathway. Journal of the American Society of Nephrology: JASN, 2022, 33, 547-564.	6.1	8
72	The role of calcium-sensing receptor signaling in regulating transepithelial calcium transport. Experimental Biology and Medicine, 2021, 246, 2407-2419.	2.4	7

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73	Activation of the calcium sensing receptor increases claudinâ€14 expression via a PLC â€p38â€Sp1 pathway. FASEB Journal, 2021, 35, e21982.	0.5	7
74	Patient and Stone Characteristics Associated with Surgical Intervention in Pediatrics. Canadian Journal of Kidney Health and Disease, 2015, 2, 57.	1.1	6
75	The calmodulin antagonist W-7 inhibits the epithethial Na⁺/H⁺exchanger via modulating membrane surface potential. Channels, 2011, 5, 308-313.	2.8	5
76	The carboxyl-terminally truncated kidney anion exchanger 1 R901X dRTA mutant is unstable at the plasma membrane. American Journal of Physiology - Cell Physiology, 2016, 310, C764-C772.	4.6	5
77	Proteasomal degradation competes with Mia40-mediated import into mitochondria. BMC Biology, 2018, 16, 63.	3.8	4
78	Tauroursodeoxycholic acid attenuates cyclosporine-induced renal fibrogenesis in the mouse model. Biochimica Et Biophysica Acta - General Subjects, 2019, 1863, 1210-1216.	2.4	4
79	Differential parathyroid and kidney Ca2+-sensing receptor activation in autosomal dominant hypocalcemia 1. EBioMedicine, 2022, 78, 103947.	6.1	4
80	Ubiquitin COOH-terminal hydrolase L1 deletion is associated with urinary Î±-klotho deficiency and perturbed phosphate homeostasis. American Journal of Physiology - Renal Physiology, 2018, 315, F353-F363.	2.7	3
81	CYP24A1 and SLC34A1 Pathogenic Variants Are Uncommon in a Canadian Cohort of Children with Hypercalcemia or Hypercalciuria. Hormone Research in Paediatrics, 2021, 94, 124-132.	1.8	3
82	Mutations in CLDN2 Are Not a Common Cause of Pediatric Idiopathic Hypercalciuria in Canada. Canadian Journal of Kidney Health and Disease, 2022, 9, 205435812210987.	1.1	3
83	Claudinâ€15 is not a drag!. Acta Physiologica, 2020, 228, e13397.	3.8	2
84	SLC26A7 protein is a chloride/bicarbonate exchanger and its abundance is osmolarity- and pH-dependent in renal epithelial cells. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183238.	2.6	2
85	Increased intestinal phosphate absorption, an oftenâ€overlooked effect of vitamin D. Journal of Physiology, 2021, 599, 1021-1022.	2.9	2
86	Intestinal resection affects whole-body arginine synthesis in neonatal piglets. Pediatric Research, 2021, 89, 1420-1426.	2.3	1
87	Developmental Changes in Phosphate Homeostasis. Reviews of Physiology, Biochemistry and Pharmacology, 2020, 179, 117-138.	1.6	1
88	Rituximab Use for the Treatment of Childhood Nephrotic Syndrome by Canadian Pediatric Nephrologists: A National Survey. Canadian Journal of Kidney Health and Disease, 2022, 9, 205435812210799.	1.1	1
89	Urinary sodium and calcium excretion: via endothelinâ€1 do they part?. Journal of Physiology, 2017, 595, 2415-2416.	2.9	0
90	Claudinâ€2 Confers Calcium Permeability to the Jejunum and Ileum in Early Life. FASEB Journal, 2019, 33, 575.16.	0.5	0