Michael F Romero

List of Publications by Year
in descending order

106 papers	9,006 citations	94433 37 h-index	51608 86 g-index
108 all docs	108 docs citations	108 times ranked	6789 citing authors

#	Article	IF	Citations
1	Feeding the Kidney Researcher Pipeline through R25-NIDDK Funded Summer Undergraduate Research Fellowships: A Student Perspective. Kidney360, 2022, 3, 546-549.	2.1	3
2	Boric acid transport activity of human aquaporins expressed in Xenopus oocytes. Physiological Reports, 2022, 10, e15164.	1.7	5
3	Sequence analysis and function of mosquito aeCCC2 and Drosophila Ncc83 orthologs. Insect Biochemistry and Molecular Biology, 2022, 143, 103729.	2.7	2
4	Drosophila melanogaster: a simple genetic model of kidney structure, function and disease. Nature Reviews Nephrology, 2022, 18, 417-434.	9.6	13
5	Who's on first â€¦ Na⁺, HCO₃^{â^'} or CO₃^{2â^'}?. Journal of Physiology, 2022, 600, 3005-3006.	2.9	2
6	Human kidney stones: a natural record of universal biomineralization. Nature Reviews Urology, 2021, 18, 404-432.	3.8	27
7	Use of 3D Robotic Ultrasound for In Vivo Analysis of Mouse Kidneys. Journal of Visualized Experiments, 2021, , .	0.3	0
8	Electrogenic sodium bicarbonate cotransporter NBCe1 regulates pancreatic Î² cell function in type 2 diabetes. Journal of Clinical Investigation, 2021, 131, .	8.2	11
9	Transporters and tubule crystals in the insect Malpighian tubule. Current Opinion in Insect Science, 2021, 47, 82-89.	4.4	10
10	Expression of the regulated isoform of the electrogenic Na⁺/HCO₃^{â^'} cotransporter, NBCe1, is enriched in pacemaker interstitial cells of Cajal. American Journal of Physiology - Renal Physiology, 2021, 320, G93-G107.	3.4	2
11	In Vivo Entombment of Bacteria and Fungi during Calcium Oxalate, Brushite, and Struvite Urolithiasis. Kidney360, 2021, 2, 298-311.	2.1	14
12	Specialized stellate cells offer a privileged route for rapid water flux in Drosophila renal tubule. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 1779-1787.	7.1	28
13	Clâ^' and H+ coupling properties and subcellular localizations of wildtype and disease-associated variants of the voltage-gated Clâ^'/H+ exchanger ClC-5. Journal of Biological Chemistry, 2020, 295, 1464-1473.	3.4	8
14	NBCe1-A is required for the renal ammonia and K⁺response to hypokalemia. American Journal of Physiology - Renal Physiology, 2020, 318, F402-F421.	2.7	9
15	Renal Tubular Acidosis and Immune Checkpoint Inhibitor Therapy: An Immune-Related Adverse Event of PD-1 Inhibitorâ€"A Report of 3 Cases. Kidney Medicine, 2020, 2, 657-662.	2.0	26
16	An immunohistochemical prostate cell identification key indicates that aging shifts procollagen 1A1 production from myofibroblasts to fibroblasts in dogs prone to prostate-related urinary dysfunction. PLoS ONE, 2020, 15, e0232564.	2.5	2
17	Assessing Polycystic Kidney Disease in Rodents: Comparison of Robotic 3D Ultrasound and Magnetic Resonance Imaging. Kidney360, 2020, 1, 1128-1136.	2.1	1
18	Functional analysis of mosquito and Drosophila Na⁺â€dependent cationâ€chloride cotransporters. FASEB Journal, 2020, 34, 1-1.	0.5	0

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19	NBCe1: An Electrogenic Na+ Bicarbonate Cotransporter, in Epithelia. Physiology in Health and Disease, 2020, , 93-123.	0.3	1
20	Title is missing!. , 2020, 15, e0232564.		0
21	Title is missing!. , 2020, 15, e0232564.		0
22	Title is missing!. , 2020, 15, e0232564.		0
23	Title is missing!. , 2020, 15, e0232564.		0
24	Targeted renal knockdown of Na⁺/H⁺exchanger regulatory factorSip1produces uric acid nephrolithiasis inDrosophila. American Journal of Physiology - Renal Physiology, 2019, 317, F930-F940.	2.7	10
25	Acid-Base Basics. Seminars in Nephrology, 2019, 39, 316-327.	1.6	6
26	Regulation of renal NaDC1 expression and citrate excretion by NBCe1-A. American Journal of Physiology - Renal Physiology, 2019, 317, F489-F501.	2.7	13
27	Cloning, function, and localization of human, canine, and Drosophila ZIP10 (SLC39A10), a Zn²⁺ transporter. American Journal of Physiology - Renal Physiology, 2019, 316, F263-F273.	2.7	14
28	The Na + /HCO 3 â^' Cotransporter (Nbce1, Slc4a4) is Enriched in Interstitial Cells of Cajal Responsible for Generating Electrical Slow Wave Activity in the Mouse Gastrointestinal Tract. FASEB Journal, 2019, 33, 544.8.	0.5	0
29	NBCe1 in the Kidney and Lower Urogenital Tract. FASEB Journal, 2019, 33, 544.5.	0.5	0
30	NBCe1-A Regulates Proximal Tubule Ammonia Metabolism under Basal Conditions and in Response to Metabolic Acidosis. Journal of the American Society of Nephrology: JASN, 2018, 29, 1182-1197.	6.1	28
31	The Synthesized Plant Metabolite 3,4,5-Tri-O-Galloylquinic Acid Methyl Ester Inhibits Calcium Oxalate Crystal Growth in a Drosophila Model, Downregulates Renal Cell Surface Annexin A1 Expression, and Decreases Crystal Adhesion to Cells. Journal of Medicinal Chemistry, 2018, 61, 1609-1621.	6.4	18
32	Geobiology reveals how human kidney stones dissolve in vivo. Scientific Reports, 2018, 8, 13731.	3.3	50
33	Reassessment of the Transport Mechanism of the Human Zinc Transporter SLC39A2. Biochemistry, 2018, 57, 3976-3986.	2.5	22
34	Expression of the B splice variant of NBCe1 (SLC4A4) in the mouse kidney. American Journal of Physiology - Renal Physiology, 2018, 315, F417-F428.	2.7	16
35	Prostatic collagen architecture in neutered and intact canines. Prostate, 2018, 78, 839-848.	2.3	11
36	IRBIT stimulates zebrafish NBCe1 (Slc4a4) activity and stimulates functionally impaired human NBCe1â€B cSNP activity. FASEB Journal, 2018, 32, 750.41.	0.5	0

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37	Optical Quantification of Intracellular pH in Drosophila melanogaster Malpighian Tubule Epithelia with a Fluorescent Genetically-encoded pH Indicator. Journal of Visualized Experiments, 2017, , .	0.3	7
38	Na⁺/H⁺ exchange via the Drosophila vesicular glutamate transporter mediates activityâ€induced acid efflux from presynaptic terminals. Journal of Physiology, 2017, 595, 805-824.	2.9	19
39	Functional and transport analyses of CLCN5 genetic changes identified in Dent disease patients. Physiological Reports, 2016, 4, e12776.	1.7	13
40	Insulin and SGK1 reduce the function of Na⁺/monocarboxylate transporter 1 (SMCT1/SLC5A8). American Journal of Physiology - Cell Physiology, 2016, 311, C720-C734.	4.6	9
41	Effect of NBCe1 deletion on renal citrate and 2-oxoglutarate handling. Physiological Reports, 2016, 4, e12778.	1.7	13
42	Sulfate transporters involved in sulfate secretion in the kidney are localized in the renal proximal tubule II of the elephant fish (Callorhinchus milii). American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2016, 311, R66-R78.	1.8	13
43	Sulfate and thiosulfate inhibit oxalate transport via a dPrestin (Slc26a6)-dependent mechanism in an insect model of calcium oxalate nephrolithiasis. American Journal of Physiology - Renal Physiology, 2016, 310, F152-F159.	2.7	30
44	NBCe1 expression is required for normal renal ammonia metabolism. American Journal of Physiology - Renal Physiology, 2015, 309, F658-F666.	2.7	34
45	Transport proteins NHA1 and NHA2 are essential for survival, but have distinct transport modalities. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11720-11725.	7.1	53
46	Chloride channels in stellate cells are essential for uniquely high secretion rates in neuropeptide-stimulated Drosophila diuresis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14301-14306.	7.1	72
47	Identification and lateral membrane localization of cyclin M3, likely to be involved in renal Mg²⁺handling in seawater fish. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2014, 307, R525-R537.	1.8	13
48	Na⁺/H⁺and Na⁺/NH₄⁺exchange activities of zebrafish NHE3b expressed inXenopusoocytes. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2014, 306, R315-R327.	1.8	31
49	Investigation of the KIR4.1 potassium channel as a putative antigen in patients with multiple sclerosis: a comparative study. Lancet Neurology, The, 2014, 13, 795-806.	10.2	76
50	Drosophila melanogaster as an Emerging Translational Model of Human Nephrolithiasis. Journal of Urology, 2013, 190, 1648-1656.	0.4	53
51	The SLC4 family of bicarbonate transporters. Molecular Aspects of Medicine, 2013, 34, 159-182.	6.4	287
52	Pufferfish Slc4a11 functions as a borate channel for borate secretion. FASEB Journal, 2013, 27, 910.14.	0.5	1
53	In vivoDrosophiliagenetic model for calcium oxalate nephrolithiasis. American Journal of Physiology - Renal Physiology, 2012, 303, F1555-F1562.	2.7	49
54	O2-Filled Swimbladder Employs Monocarboxylate Transporters for the Generation of O2 by Lactate-Induced Root Effect Hemoglobin. PLoS ONE, 2012, 7, e34579.	2.5	12

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55	Functional analysis of nonsynonymous single nucleotide polymorphisms in human SLC26A9. Human Mutation, 2012, 33, 1275-1284.	2.5	29
56	Ion and solute transport by Prestin in Drosophila and Anopheles. Journal of Insect Physiology, 2012, 58, 563-569.	2.0	29
57	The mechanism of local blood acidification in the swimbladder by spatially organized monocarboxylate transporters. FASEB Journal, 2012, 26, 862.10.	0.5	0
58	Regulation of Electroneutral NaCl Absorption by the Small Intestine. Annual Review of Physiology, 2011, 73, 261-281.	13.1	145
59	Drosophilaprovides rapid modeling of renal development, function, and disease. American Journal of Physiology - Renal Physiology, 2010, 299, F1237-F1244.	2.7	96
60	Pufferfish Slc26a5 (prestin) exchanges Clâ¯ for oxalate, sulfate, and bicarbonate. FASEB Journal, 2010, 24, 1002.24.	0.5	0
61	Channel inhibitory region within the STAS domain of human SLC26A9. FASEB Journal, 2010, 24, 1002.7.	0.5	2
62	Characterization of Anopheles gambiae Slc26a5 and potential role in malaria. FASEB Journal, 2010, 24, 1002.25.	0.5	1
63	Slc26a9 Is Inhibited by the R-region of the Cystic Fibrosis Transmembrane Conductance Regulator via the STAS Domain. Journal of Biological Chemistry, 2009, 284, 28306-28318.	3.4	78
64	Slc26a9â€"Anion Exchanger, Channel and Na+ Transporter. Journal of Membrane Biology, 2009, 228, 125-140.	2.1	78
65	Identification of renal transporters involved in sulfate excretion in marine teleost fish. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009, 297, R1647-R1659.	1.8	32
66	NBCe1 (SLC4A4) functional dimer assembly. FASEB Journal, 2009, 23, 800.12.	0.5	0
67	SGK1 and insulin reduce the activity of mammalian electrogenic Na + /Monocarboxylate Transporters (SMCTe/Slc5a8). FASEB Journal, 2009, 23, 797.11.	0.5	0
68	Single nucleotide polymorphisms (SNPs) of human SLC26A9. FASEB Journal, 2009, 23, 796.24.	0.5	1
69	Entry to â€œ <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif"><mml:mrow><mml:msubsup><mml:mrow><mml:mtext>HCO</mml:mtext></mml:mrow><mml:mtext>3</mml:mtext> Tunnelâ€•Revealed by SLC4A4 Human Mutation and Structural Model. Journal of Biological Chemistry, 2008, 283, 18402-18410.	3.4	50
70	Identification of intestinal bicarbonate transporters involved in formation of carbonate precipitates to stimulate water absorption in marine teleost fish. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 294, R1402-R1412.	1.8	112
71	Physiology of Electrogenic SLC26 Paralogues. Novartis Foundation Symposium, 2008, , 126-147.	1.1	27
72	Valproate and Nonsteroidal Antiâ€Inflammatory Drugs Reduces the Activity of Electroneutral (Smtn/Slc5a12) and Electrogenic (SMCTe/Slc5a8) Na + /Monocarboxylate Transporters (SMCT).. FASEB Journal, 2008, 22, 1202.12.	0.5	0

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73	Identification of intestinal bicarbonate transporters involved in formation of carbonate precipitates to stimulate water absorption in marine teleost fish. FASEB Journal, 2008, 22, 1239.15.	0.5	0
74	Functional Characterization of Pufferfish Slc26a6A and Slc26a6B. FASEB Journal, 2008, 22, 936.7.	0.5	0
75	Zebrafish Slc5a12 Encodes an Electroneutral Sodium Monocarboxylate Transporter (SMCTn). Journal of Biological Chemistry, 2007, 282, 11996-12009.	3.4	22
76	SLC5 Sodium-Anion Cotransporters and Renal Urate Transport. AIP Conference Proceedings, 2007, , .	0.4	0
77	Evidence of functional NBCe1 (SLC4A4) dimer assembly. FASEB Journal, 2007, 21, A1282.	0.5	0
78	Divalent metal-ion transporter DMT1 mediates both H+ -coupled Fe2+ transport and uncoupled fluxes. Pflugers Archiv European Journal of Physiology, 2006, 451, 544-558.	2.8	125
79	Localization of Slc26a9 and role of the STAS domain. FASEB Journal, 2006, 20, .	0.5	4
80	Proximal renal tubular acidosis and ocular pathology: a novel missense mutation in the gene (SLC4A4) for sodium bicarbonate cotransporter protein (NBCe1). Molecular Vision, 2006, 12, 324-30.	1.1	73
81	Physiology of electrogenic SLC26 paralogues. Novartis Foundation Symposium, 2006, 273, 126-38; discussion 138-47, 261-4.	1.1	19
82	Molecular pathophysiology of SLC4 bicarbonate transporters. Current Opinion in Nephrology and Hypertension, 2005, 14, 495-501.	2.0	68
83	NHE3 in an ancestral vertebrate: primary sequence, distribution, localization, and function in gills. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2005, 289, R1520-R1534.	1.8	69
84	A Novel Missense Mutation in the Sodium Bicarbonate Cotransporter (NBCe1/SLC4A4) Causes Proximal Tubular Acidosis and Glaucoma through Ion Transport Defects. Journal of Biological Chemistry, 2004, 279, 52238-52246.	3.4	161
85	In the beginning, there was the cell: cellular homeostasis. American Journal of Physiology - Advances in Physiology Education, 2004, 28, 135-138.	1.6	14
86	The human tumour suppressor geneSLC5A8expresses a Na+-monocarboxylate cotransporter. Journal of Physiology, 2004, 557, 719-731.	2.9	143
87	The SLC4 family of HCO3 ? transporters. Pflugers Archiv European Journal of Physiology, 2004, 447, 495-509.	2.8	394
88	SLC5A8, a sodium transporter, is a tumor suppressor gene silenced by methylation in human colon aberrant crypt foci and cancers. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 8412-8417.	7.1	264
89	Molecular characterization of the murine Slc26a6 anion exchanger: functional comparison with Slc26a1. American Journal of Physiology - Renal Physiology, 2002, 283, F826-F838.	2.7	186
90	Localization of endogenous and recombinant Na⁺-driven anion exchanger protein NDAE1 fromDrosophila melanogaster. American Journal of Physiology - Cell Physiology, 2001, 281, C449-C463.	4.6	46

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91	The renal Na-HCO 3 -cotransporter expressed in Xenopus laevis oocytes: inhibition by tenidap and benzamil and effect of temperature on transport rate and stoichiometry. Pflugers Archiv European Journal of Physiology, 2001, 442, 709-717.	2.8	43
92	An electrogenic Na⁺- HCO 3 â^' cotransporter (NBC) with a novel COOH-terminus, cloned from rat brain. American Journal of Physiology - Cell Physiology, 2000, 278, C1200-C1211.	4.6	148
93	Cloning and Characterization of a Na+-driven Anion Exchanger (NDAE1). Journal of Biological Chemistry, 2000, 275, 24552-24559.	3.4	108
94	Extracellular Hco3â^' Dependence of Electrogenic Na/Hco3 Cotransporters Cloned from Salamander and Rat Kidney. Journal of General Physiology, 2000, 115, 533-546.	1.9	32
95	Cloning and characterization of a human electrogenic Na⁺- HCO 3 â^' cotransporter isoform (hhNBC). American Journal of Physiology - Cell Physiology, 1999, 276, C576-C584.	4.6	161
96	Cation and voltage dependence of rat kidney electrogenic Na⁺- HCO 3 â^' cotransporter, rkNBC, expressed in oocytes. American Journal of Physiology - Renal Physiology, 1999, 277, F611-F623.	2.7	83
97	Immunolocalization of the electrogenic Na⁺- HCO 3 â^' cotransporter in mammalian and amphibian kidney. American Journal of Physiology - Renal Physiology, 1999, 276, F27-F38.	2.7	113
98	Immunolocalization of anion exchanger AE2 and Na⁺- HCO 3 â^' cotransporter in rat parotid and submandibular glands. American Journal of Physiology - Renal Physiology, 1999, 277, G1288-G1296.	3.4	39
99	ELECTROGENIC Na⁺/HCO^{â^'}₃ COTRANSPORTERS: Cloning and Physiology. Annual Review of Physiology, 1999, 61, 699-723.	13.1	191
100	[2] Expression cloning using Xenopus laevis oocytes. Methods in Enzymology, 1998, 296, 17-52.	1.0	70
101	Cloning and functional expression of rNBC, an electrogenic Na⁺- HCO 3 â^' cotransporter from rat kidney. American Journal of Physiology - Renal Physiology, 1998, 274, F425-F432.	2.7	130
102	Effect of expressing the water channel aquaporin-1 on the CO₂permeability ofXenopusoocytes. American Journal of Physiology - Cell Physiology, 1998, 274, C543-C548.	4.6	329
103	Expression cloning and characterization of a renal electrogenic Na+ /HCO3â^' cotransporter. Nature, 1997, 387, 409-413.	27.8	415
104	Cloning and characterization of a mammalian proton-coupled metal-ion transporter. Nature, 1997, 388, 482-488.	27.8	2,895
105	Expression cloning of a mammalian proton-coupled oligopeptide transporter. Nature, 1994, 368, 563-566.	27.8	838
106	Membrane Transport Proteins Expressed in the Renal Tubular Epithelial Cells of Seawater and Freshwater Teleost Fishes. Frontiers in Physiology, 0, 13, .	2.8	5