

Michael F Romero

List of Publications by Year in descending order

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106
papers

9,006
citations

94433

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108
all docs

108
docs citations

108
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Cloning and characterization of a mammalian proton-coupled metal-ion transporter. <i>Nature</i> , 1997, 388, 482-488.	27.8	2,895
2	Expression cloning of a mammalian proton-coupled oligopeptide transporter. <i>Nature</i> , 1994, 368, 563-566.	27.8	838
3	Expression cloning and characterization of a renal electrogenic Na ⁺ /HCO ₃ ⁻ cotransporter. <i>Nature</i> , 1997, 387, 409-413.	27.8	415
4	The SLC4 family of HCO ₃ ⁻ transporters. <i>Pflügers Archiv European Journal of Physiology</i> , 2004, 447, 495-509.	2.8	394
5	Effect of expressing the water channel aquaporin-1 on the CO ₂ permeability of <i>Xenopus</i> oocytes. <i>American Journal of Physiology - Cell Physiology</i> , 1998, 274, C543-C548.	4.6	329
6	The SLC4 family of bicarbonate transporters. <i>Molecular Aspects of Medicine</i> , 2013, 34, 159-182.	6.4	287
7	SLC5A8, a sodium transporter, is a tumor suppressor gene silenced by methylation in human colon aberrant crypt foci and cancers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 8412-8417.	7.1	264
8	ELECTROGENIC Na ⁺ /HCO ₃ ⁻ COTRANSPORTERS: Cloning and Physiology. <i>Annual Review of Physiology</i> , 1999, 61, 699-723.	13.1	191
9	Molecular characterization of the murine Slc26a6 anion exchanger: functional comparison with Slc26a1. <i>American Journal of Physiology - Renal Physiology</i> , 2002, 283, F826-F838.	2.7	186
10	Cloning and characterization of a human electrogenic Na ⁺ -HCO ₃ ⁻ cotransporter isoform (hhNBC). <i>American Journal of Physiology - Cell Physiology</i> , 1999, 276, C576-C584.	4.6	161
11	A Novel Missense Mutation in the Sodium Bicarbonate Cotransporter (NBCe1/SLC4A4) Causes Proximal Tubular Acidosis and Glaucoma through Ion Transport Defects. <i>Journal of Biological Chemistry</i> , 2004, 279, 52238-52246.	3.4	161
12	An electrogenic Na ⁺ -HCO ₃ ⁻ cotransporter (NBC) with a novel COOH-terminus, cloned from rat brain. <i>American Journal of Physiology - Cell Physiology</i> , 2000, 278, C1200-C1211.	4.6	148
13	Regulation of Electroneutral NaCl Absorption by the Small Intestine. <i>Annual Review of Physiology</i> , 2011, 73, 261-281.	13.1	145
14	The human tumour suppressor gene SLC5A8 expresses a Na ⁺ -monocarboxylate cotransporter. <i>Journal of Physiology</i> , 2004, 557, 719-731.	2.9	143
15	Cloning and functional expression of rNBC, an electrogenic Na ⁺ -HCO ₃ ⁻ cotransporter from rat kidney. <i>American Journal of Physiology - Renal Physiology</i> , 1998, 274, F425-F432.	2.7	130
16	Divalent metal-ion transporter DMT1 mediates both H ⁺ -coupled Fe ²⁺ transport and uncoupled fluxes. <i>Pflügers Archiv European Journal of Physiology</i> , 2006, 451, 544-558.	2.8	125
17	Immunolocalization of the electrogenic Na ⁺ -HCO ₃ ⁻ cotransporter in mammalian and amphibian kidney. <i>American Journal of Physiology - Renal Physiology</i> , 1999, 276, F27-F38.	2.7	113
18	Identification of intestinal bicarbonate transporters involved in formation of carbonate precipitates to stimulate water absorption in marine teleost fish. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 294, R1402-R1412.	1.8	112

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19	Cloning and Characterization of a Na ⁺ -driven Anion Exchanger (NDAE1). Journal of Biological Chemistry, 2000, 275, 24552-24559.	3.4	108
20	<i>Drosophila</i> provides rapid modeling of renal development, function, and disease. American Journal of Physiology - Renal Physiology, 2010, 299, F1237-F1244.	2.7	96
21	Cation and voltage dependence of rat kidney electrogenic Na ⁺ -HCO ₃ ⁻ cotransporter, rkNBC, expressed in oocytes. American Journal of Physiology - Renal Physiology, 1999, 277, F611-F623.	2.7	83
22	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
23	Slc26a9 is an Anion Exchanger, Channel and Na ⁺ Transporter. Journal of Membrane Biology, 2009, 228, 125-140.	2.1	78
24	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
25	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
26	Chloride channels in stellate cells are essential for uniquely high secretion rates in neuropeptide-stimulated <i>Drosophila</i> diuresis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14301-14306.	7.1	72
27	[2] Expression cloning using <i>Xenopus laevis</i> oocytes. Methods in Enzymology, 1998, 296, 17-52.	1.0	70
28	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
29	Molecular pathophysiology of SLC4 bicarbonate transporters. Current Opinion in Nephrology and Hypertension, 2005, 14, 495-501.	2.0	68
30	<i>Drosophila melanogaster</i> as an Emerging Translational Model of Human Nephrolithiasis. Journal of Urology, 2013, 190, 1648-1656.	0.4	53
31	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
32	Entry to the HCO ₃ ⁻ Tunnel is Revealed by SLC4A4 Human Mutation and Structural Model. Journal of Biological Chemistry, 2008, 283, 18402-18410.	3.4	50
33	Geobiology reveals how human kidney stones dissolve in vivo. Scientific Reports, 2018, 8, 13731.	3.3	50
34	In vivo <i>Drosophila</i> genetic model for calcium oxalate nephrolithiasis. American Journal of Physiology - Renal Physiology, 2012, 303, F1555-F1562.	2.7	49
35	Localization of endogenous and recombinant Na ⁺ -driven anion exchanger protein NDAE1 from <i>Drosophila melanogaster</i> . American Journal of Physiology - Cell Physiology, 2001, 281, C449-C463.	4.6	46
36	The renal Na-HCO ₃ -cotransporter expressed in <i>Xenopus laevis</i> oocytes: inhibition by tenidap and benzamil and effect of temperature on transport rate and stoichiometry. Pflügers Archiv European Journal of Physiology, 2001, 442, 709-717.	2.8	43

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37	Immunolocalization of anion exchanger AE2 and Na ⁺ -HCO ₃ ⁻ cotransporter in rat parotid and submandibular glands. <i>American Journal of Physiology - Renal Physiology</i> , 1999, 277, G1288-G1296.	3.4	39
38	NBCe1 expression is required for normal renal ammonia metabolism. <i>American Journal of Physiology - Renal Physiology</i> , 2015, 309, F658-F666.	2.7	34
39	Extracellular Hco3 ⁻ Dependence of Electrogenic Na/Hco3 Cotransporters Cloned from Salamander and Rat Kidney. <i>Journal of General Physiology</i> , 2000, 115, 533-546.	1.9	32
40	Identification of renal transporters involved in sulfate excretion in marine teleost fish. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009, 297, R1647-R1659.	1.8	32
41	Na ⁺ /H ⁺ and Na ⁺ /NH ₄ ⁺ exchange activities of zebrafish NHE3b expressed in <i>Xenopus</i> oocytes. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 306, R315-R327.	1.8	31
42	Sulfate and thiosulfate inhibit oxalate transport via a dPrestin (Slc26a6)-dependent mechanism in an insect model of calcium oxalate nephrolithiasis. <i>American Journal of Physiology - Renal Physiology</i> , 2016, 310, F152-F159.	2.7	30
43	Functional analysis of nonsynonymous single nucleotide polymorphisms in human SLC26A9. <i>Human Mutation</i> , 2012, 33, 1275-1284.	2.5	29
44	Ion and solute transport by Prestin in <i>Drosophila</i> and <i>Anopheles</i> . <i>Journal of Insect Physiology</i> , 2012, 58, 563-569.	2.0	29
45	NBCe1-A Regulates Proximal Tubule Ammonia Metabolism under Basal Conditions and in Response to Metabolic Acidosis. <i>Journal of the American Society of Nephrology: JASN</i> , 2018, 29, 1182-1197.	6.1	28
46	Specialized stellate cells offer a privileged route for rapid water flux in <i>Drosophila</i> renal tubule. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 1779-1787.	7.1	28
47	Physiology of Electrogenic SLC26 Paralogues. <i>Novartis Foundation Symposium</i> , 2008, , 126-147.	1.1	27
48	Human kidney stones: a natural record of universal biomineralization. <i>Nature Reviews Urology</i> , 2021, 18, 404-432.	3.8	27
49	Renal Tubular Acidosis and Immune Checkpoint Inhibitor Therapy: An Immune-Related Adverse Event of PD-1 Inhibitor—A Report of 3 Cases. <i>Kidney Medicine</i> , 2020, 2, 657-662.	2.0	26
50	Zebrafish Slc5a12 Encodes an Electroneutral Sodium Monocarboxylate Transporter (SMCTn). <i>Journal of Biological Chemistry</i> , 2007, 282, 11996-12009.	3.4	22
51	Reassessment of the Transport Mechanism of the Human Zinc Transporter SLC39A2. <i>Biochemistry</i> , 2018, 57, 3976-3986.	2.5	22
52	Na ⁺ /H ⁺ exchange via the <i>Drosophila</i> vesicular glutamate transporter mediates activity-induced acid efflux from presynaptic terminals. <i>Journal of Physiology</i> , 2017, 595, 805-824.	2.9	19
53	Physiology of electrogenic SLC26 paralogues. <i>Novartis Foundation Symposium</i> , 2006, 273, 126-38; discussion 138-47, 261-4.	1.1	19
54	The Synthesized Plant Metabolite 3,4,5-Tri-O-Galloylquinic Acid Methyl Ester Inhibits Calcium Oxalate Crystal Growth in a <i>Drosophila</i> Model, Downregulates Renal Cell Surface Annexin A1 Expression, and Decreases Crystal Adhesion to Cells. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 1609-1621.	6.4	18

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55	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
56	In the beginning, there was the cell: cellular homeostasis. American Journal of Physiology - Advances in Physiology Education, 2004, 28, 135-138.	1.6	14
57	Cloning, function, and localization of human, canine, and <i>Drosophila</i> ZIP10 (SLC39A10), a Zn ²⁺ transporter. American Journal of Physiology - Renal Physiology, 2019, 316, F263-F273.	2.7	14
58	In Vivo Entombment of Bacteria and Fungi during Calcium Oxalate, Brushite, and Struvite Urolithiasis. Kidney360, 2021, 2, 298-311.	2.1	14
59	Identification and lateral membrane localization of cyclin M3, likely to be involved in renal Mg ²⁺ handling in seawater fish. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2014, 307, R525-R537.	1.8	13
60	Functional and transport analyses of <i>CLCN5</i> genetic changes identified in Dent disease patients. Physiological Reports, 2016, 4, e12776.	1.7	13
61	Effect of NBCe1 deletion on renal citrate and 2-oxoglutarate handling. Physiological Reports, 2016, 4, e12778.	1.7	13
62	Sulfate transporters involved in sulfate secretion in the kidney are localized in the renal proximal tubule II of the elephant fish (<i>Callorhinchus milii</i>). American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2016, 311, R66-R78.	1.8	13
63	Regulation of renal NaDC1 expression and citrate excretion by NBCe1-A. American Journal of Physiology - Renal Physiology, 2019, 317, F489-F501.	2.7	13
64	<i>Drosophila melanogaster</i> : a simple genetic model of kidney structure, function and disease. Nature Reviews Nephrology, 2022, 18, 417-434.	9.6	13
65	O ₂ -Filled Swimbladder Employs Monocarboxylate Transporters for the Generation of O ₂ by Lactate-Induced Root Effect Hemoglobin. PLoS ONE, 2012, 7, e34579.	2.5	12
66	Prostatic collagen architecture in neutered and intact canines. Prostate, 2018, 78, 839-848.	2.3	11
67	Electrogenic sodium bicarbonate cotransporter NBCe1 regulates pancreatic β cell function in type 2 diabetes. Journal of Clinical Investigation, 2021, 131, .	8.2	11
68	Targeted renal knockdown of Na ⁺ /H ⁺ exchanger regulatory factor <i>Sip1</i> produces uric acid nephrolithiasis in <i>Drosophila</i> . American Journal of Physiology - Renal Physiology, 2019, 317, F930-F940.	2.7	10
69	Transporters and tubule crystals in the insect Malpighian tubule. Current Opinion in Insect Science, 2021, 47, 82-89.	4.4	10
70	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
71	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
72	Cl ⁻ and H ⁺ coupling properties and subcellular localizations of wildtype and disease-associated variants of the voltage-gated Cl ⁻ /H ⁺ exchanger ClC-5. Journal of Biological Chemistry, 2020, 295, 1464-1473.	3.4	8

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73	Optical Quantification of Intracellular pH in <i>Drosophila melanogaster</i> Malpighian Tubule Epithelia with a Fluorescent Genetically-encoded pH Indicator. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	7
74	Acid-Base Basics. <i>Seminars in Nephrology</i> , 2019, 39, 316-327.	1.6	6
75	Boric acid transport activity of human aquaporins expressed in <i>Xenopus</i> oocytes. <i>Physiological Reports</i> , 2022, 10, e15164.	1.7	5
76	Membrane Transport Proteins Expressed in the Renal Tubular Epithelial Cells of Seawater and Freshwater Teleost Fishes. <i>Frontiers in Physiology</i> , 0, 13, .	2.8	5
77	Localization of Slc26a9 and role of the STAS domain. <i>FASEB Journal</i> , 2006, 20, .	0.5	4
78	Feeding the Kidney Researcher Pipeline through R25-NIDDK Funded Summer Undergraduate Research Fellowships: A Student Perspective. <i>Kidney360</i> , 2022, 3, 546-549.	2.1	3
79	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. <i>PLoS ONE</i> , 2020, 15, e0232564.	2.5	2
80	Expression of the regulated isoform of the electrogenic Na ⁺ /HCO ₃ ⁻ cotransporter, NBCe1, is enriched in pacemaker interstitial cells of Cajal. <i>American Journal of Physiology - Renal Physiology</i> , 2021, 320, G93-G107.	3.4	2
81	Channel inhibitory region within the STAS domain of human SLC26A9. <i>FASEB Journal</i> , 2010, 24, 1002.7.	0.5	2
82	Sequence analysis and function of mosquito aeCCC2 and <i>Drosophila</i> Ncc83 orthologs. <i>Insect Biochemistry and Molecular Biology</i> , 2022, 143, 103729.	2.7	2
83	Who's on first â€¦ Na ⁺ , HCO ₃ ⁻ or CO ₃ ²⁻ ? <i>Journal of Physiology</i> , 2022, 600, 3005-3006.	2.9	2
84	Assessing Polycystic Kidney Disease in Rodents: Comparison of Robotic 3D Ultrasound and Magnetic Resonance Imaging. <i>Kidney360</i> , 2020, 1, 1128-1136.	2.1	1
85	Single nucleotide polymorphisms (SNPs) of human SLC26A9. <i>FASEB Journal</i> , 2009, 23, 796.24.	0.5	1
86	Characterization of <i>Anopheles gambiae</i> Slc26a5 and potential role in malaria. <i>FASEB Journal</i> , 2010, 24, 1002.25.	0.5	1
87	Pufferfish Slc4a11 functions as a borate channel for borate secretion. <i>FASEB Journal</i> , 2013, 27, 910.14.	0.5	1
88	NBCe1: An Electrogenic Na ⁺ Bicarbonate Cotransporter, in Epithelia. <i>Physiology in Health and Disease</i> , 2020, , 93-123.	0.3	1
89	SLC5 Sodium-Anion Cotransporters and Renal Urate Transport. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	0
90	Use of 3D Robotic Ultrasound for <i>In Vivo</i> Analysis of Mouse Kidneys. <i>Journal of Visualized Experiments</i> , 2021, , .	0.3	0

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91	Evidence of functional NBCe1 (SLC4A4) dimer assembly. FASEB Journal, 2007, 21, A1282.	0.5	0
92	Valproate and Nonsteroidal Anti-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
93	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
94	Functional Characterization of Pufferfish Slc26a6A and Slc26a6B. FASEB Journal, 2008, 22, 936.7.	0.5	0
95	NBCe1 (SLC4A4) functional dimer assembly. FASEB Journal, 2009, 23, 800.12.	0.5	0
96	SGK1 and insulin reduce the activity of mammalian electrogenic Na ⁺ /Monocarboxylate Transporters (SMCTe/Slc5a8). FASEB Journal, 2009, 23, 797.11.	0.5	0
97	Pufferfish Slc26a5 (prestin) exchanges Cl ⁻ for oxalate, sulfate, and bicarbonate. FASEB Journal, 2010, 24, 1002.24.	0.5	0
98	The mechanism of local blood acidification in the swimbladder by spatially organized monocarboxylate transporters. FASEB Journal, 2012, 26, 862.10.	0.5	0
99	IRBIT stimulates zebrafish NBCe1 (Slc4a4) activity and stimulates functionally impaired human NBCe1 cSNP activity. FASEB Journal, 2018, 32, 750.41.	0.5	0
100	The Na ⁺ /HCO ₃ ⁻ 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
101	NBCe1 in the Kidney and Lower Urogenital Tract. FASEB Journal, 2019, 33, 544.5.	0.5	0
102	Functional analysis of mosquito and <i>Drosophila</i> Na ⁺ -dependent cation-chloride cotransporters. FASEB Journal, 2020, 34, 1-1.	0.5	0
103	Title is missing!. , 2020, 15, e0232564.		0
104	Title is missing!. , 2020, 15, e0232564.		0
105	Title is missing!. , 2020, 15, e0232564.		0
106	Title is missing!. , 2020, 15, e0232564.		0