Ian Cameron Forster

List of Publications by Year
in descending order

68 papers	3,290 citations	136740 32 h-index	143772 57 g-index
69 all docs	69 docs citations	69 times ranked	2382 citing authors

#	Article	IF	Citations
1	Proximal Tubular Phosphate Reabsorption: Molecular Mechanisms. Physiological Reviews, 2000, 80, 1373-1409.	13.1	460
2	Autosomal-Recessive Mutations in SLC34A1 Encoding Sodium-Phosphate Cotransporter 2A Cause Idiopathic Infantile Hypercalcemia. Journal of the American Society of Nephrology: JASN, 2016, 27, 604-614.	3.0	207
3	Phosphate transporters of the SLC20 and SLC34 families. Molecular Aspects of Medicine, 2013, 34, 386-395.	2.7	173
4	The Na⁺-P_icotransporter PiT-2 (SLC20A2) is expressed in the apical membrane of rat renal proximal tubules and regulated by dietary P_i. American Journal of Physiology - Renal Physiology, 2009, 296, F691-F699.	1.3	149
5	Phosphate Transporters and Their Function. Annual Review of Physiology, 2013, 75, 535-550.	5.6	144
6	Nucleotide recognition by the cytoplasmic domain of the human chloride transporter ClC-5. Nature Structural and Molecular Biology, 2007, 14, 60-67.	3.6	136
7	The Voltage Dependence of a Cloned Mammalian Renal Type II Na+/Pi Cotransporter (NaPi-2). Journal of General Physiology, 1998, 112, 1-18.	0.9	111
8	Mechanisms of phosphate transport. Nature Reviews Nephrology, 2019, 15, 482-500.	4.1	99
9	Deciphering PiT transport kinetics and substrate specificity using electrophysiology and flux measurements. American Journal of Physiology - Cell Physiology, 2007, 293, C606-C620.	2.1	96
10	Erythropoietin modulates intracellular calcium in a human neuroblastoma cell line. Journal of Physiology, 1999, 516, 343-352.	1.3	91
11	Ras Pathway Activates Epithelial Na⁺Channel and Decreases Its Surface Expression in<i>Xenopus</i>Oocytes. Molecular Biology of the Cell, 1998, 9, 3417-3427.	0.9	79
12	The Tegument of the Human Parasitic Worm Schistosoma mansoni as an Excretory Organ: The Surface Aquaporin SmAQP Is a Lactate Transporter. PLoS ONE, 2010, 5, e10451.	1.1	75
13	Renouncing electroneutrality is not free of charge: Switching on electrogenicity in a Na+-coupled phosphate cotransporter. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12606-12611.	3.3	74
14	Molecular mechanisms in proximal tubular and small intestinal phosphate reabsorption (Plenary) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2	2.0	63
15	Forging the link between structure and function of electrogenic cotransporters: the renal type IIa Na+/Pi cotransporter as a case study. Progress in Biophysics and Molecular Biology, 2002, 80, 69-108.	1.4	63
16	The Functional Unit of the Renal Type IIa Na+/Pi Cotransporter Is a Monomer. Journal of Biological Chemistry, 2000, 275, 26113-26120.	1.6	61
17	Proton-Sensitive Transitions of Renal Type II Na+-Coupled Phosphate Cotransporter Kinetics. Biophysical Journal, 2000, 79, 215-230.	0.2	54
18	Cysteine Mutagenesis Reveals Novel Structureâ€"Function Features within the Predicted Third Extracellular Loop of the Type Iia Na+/Pi Cotransporter. Journal of General Physiology, 2001, 117, 533-546.	0.9	52

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19	Phosphate Transport Kinetics and Structure-Function Relationships of SLC34 and SLC20 Proteins. Current Topics in Membranes, 2012, 70, 313-356.	0.5	51
20	Posttranscriptional regulation of the proximal tubule NaPi-II transporter in response to PTH and dietary P_i. American Journal of Physiology - Renal Physiology, 1999, 277, F676-F684.	1.3	50
21	Stoichiometry and Na+ binding cooperativity of rat and flounder renal type II Na+-Picotransporters. American Journal of Physiology - Renal Physiology, 1999, 276, F644-F649.	1.3	49
22	Electrogenic Kinetics of a Mammalian Intestinal Type IIb Na+/Pi Cotransporter. Journal of Membrane Biology, 2006, 212, 177-190.	1.0	46
23	Voltage Clamp Fluorometric Measurements on a Type II Na+-coupled Pi Cotransporter: Shedding Light on Substrate Binding Order. Journal of General Physiology, 2006, 127, 539-555.	0.9	46
24	Protein kinase C activators induce membrane retrieval of type II Na+-phosphate cotransporters expressed inXenopusoocytes. Journal of Physiology, 1999, 517, 327-340.	1.3	42
25	Structural Fold and Binding Sites of the Human Na+-Phosphate Cotransporter NaPi-II. Biophysical Journal, 2014, 106, 1268-1279.	0.2	42
26	Substrate interactions in the human type IIa sodium-phosphate cotransporter (NaPi-IIa). American Journal of Physiology - Renal Physiology, 2005, 288, F969-F981.	1.3	41
27	The leak mode of type II Na⁺-Pi cotransporters. Channels, 2008, 2, 346-357.	1.5	41
28	Molecular Determinants of pH Sensitivity of the Type IIa Na/Pi Cotransporter. Journal of Biological Chemistry, 2000, 275, 6284-6287.	1.6	39
29	Properties of the Mutant Ser-460-Cys Implicate This Site in a Functionally Important Region of the Type Iia Na+/Pi Cotransporter Protein. Journal of General Physiology, 1999, 114, 637-652.	0.9	38
30	Phosphate Transporters in Renal, Gastrointestinal, and Other Tissues. Advances in Chronic Kidney Disease, 2011, 18, 63-76.	0.6	36
31	Loss of function of NaPiIIa causes nephrocalcinosis and possibly kidney insufficiency. Pediatric Nephrology, 2016, 31, 2289-2297.	0.9	34
32	Identification of functionally important sites in the first intracellular loop of the NaPi-IIa cotransporter. American Journal of Physiology - Renal Physiology, 2002, 282, F687-F696.	1.3	32
33	Substrate interactions of the electroneutral Na⁺â€coupled inorganic phosphate cotransporter (NaPiâ€IIc). Journal of Physiology, 2009, 587, 4293-4307.	1.3	31
34	Lithium interactions with Na⁺-coupled inorganic phosphate cotransporters: insights into the mechanism of sequential cation binding. American Journal of Physiology - Cell Physiology, 2012, 302, C539-C554.	2.1	30
35	Identification of the First Sodium Binding Site of the Phosphate Cotransporter NaPi-IIa (SLC34A1). Biophysical Journal, 2015, 108, 2465-2480.	0.2	30
36	Gabapentin Modulates HCN4 Channel Voltage-Dependence. Frontiers in Pharmacology, 2017, 8, 554.	1.6	28

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37	Cation leak underlies neuronal excitability in an HCN1 developmental and epileptic encephalopathy. Brain, 2021, 144, 2060-2073.	3.7	26
38	An Integrated Field-Effect Microdevice for Monitoring Membrane Transport in Xenopus laevis Oocytes via Lateral Proton Diffusion. PLoS ONE, 2012, 7, e39238.	1.1	25
39	Transport Function of the Renal Type IIa Na+/Pi Cotransporter Is Codetermined by Residues in Two Opposing Linker Regions. Journal of General Physiology, 2002, 120, 693-705.	0.9	24
40	Mapping Conformational Changes of a Type IIb Na+/Pi Cotransporter by Voltage Clamp Fluorometry. Journal of Biological Chemistry, 2006, 281, 28837-28849.	1.6	24
41	Structureâ€"Function Relations of the First and Fourth Predicted Extracellular Linkers of the Type IIa Na+/Pi Cotransporter. Journal of General Physiology, 2004, 124, 475-488.	0.9	21
42	Cation Interactions and Membrane Potential Induce Conformational Changes in NaPi-IIb. Biophysical Journal, 2016, 111, 973-988.	0.2	21
43	Structureâ€"Function Relations of the First and Fourth Extracellular Linkers of the Type IIa Na+/Pi Cotransporter. Journal of General Physiology, 2004, 124, 489-503.	0.9	19
44	The molecular mechanism of SLC34 proteins: insights from two decades of transport assays and structure-function studies. Pflugers Archiv European Journal of Physiology, 2019, 471, 15-42.	1.3	19
45	Voltage- and substrate-dependent interactions between sites in putative re-entrant domains of a Na+-coupled phosphate cotransporter. Pflugers Archiv European Journal of Physiology, 2011, 461, 645-663.	1.3	18
46	Shaping of Signal Transmission at the Photoreceptor Synapse by EAAT2 Glutamate Transporters. ENeuro, 2017, 4, ENEURO.0339-16.2017.	0.9	18
47	Essential cysteine residues of the type IIa Na+/Pi cotransporter. Pflugers Archiv European Journal of Physiology, 2003, 446, 203-210.	1.3	17
48	Using lithium to probe sequential cation interactions with GAT1. American Journal of Physiology - Cell Physiology, 2012, 302, C1661-C1675.	2.1	17
49	Biophysical analysis of an HCN1 epilepsy variant suggests a critical role for S5 helix Met-305 in voltage sensor to pore domain coupling. Progress in Biophysics and Molecular Biology, 2021, 166, 156-172.	1.4	16
50	Amino acids involved in sodium interaction of murine type II Na + â€P i cotransporters expressed in Xenopus oocytes. Journal of Physiology, 2001, 531, 383-391.	1.3	15
51	Temperature Dependence of Steady-State and Presteady-State Kinetics of a Type IIb Na+/Pi Cotransporter. Journal of Membrane Biology, 2007, 215, 81-92.	1.0	14
52	Correlating Charge Movements with Local Conformational Changes of a Na+-Coupled Cotransporter. Biophysical Journal, 2014, 106, 1618-1629.	0.2	14
53	Functional consequences of the CAPOS mutation E818K of Na+,K+-ATPase. Journal of Biological Chemistry, 2019, 294, 269-280.	1.6	14
54	Conferring electrogenicity to the electroneutral phosphate cotransporter NaPi-IIc (SLC34A3) reveals an internal cation release step. Pflugers Archiv European Journal of Physiology, 2013, 465, 1261-1279.	1.3	12

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55	Novel GABRA2 variants in epileptic encephalopathy and intellectual disability with seizures. Brain, 2019, 142, e15-e15.	3.7	12
56	A Semi-automated Electrophysiology System for Recording from Xenopus Oocytes Under Microgravity Conditions. Microgravity Science and Technology, 2012, 24, 237-244.	0.7	9
57	Real-time functional characterization of cationic amino acid transporters using a new FRET sensor. Pflugers Archiv European Journal of Physiology, 2016, 468, 563-572.	1.3	9
58	Aromatic Amino Acid Transporter AAT-9 of Caenorhabditis elegans Localizes to Neurons and Muscle Cells. Journal of Biological Chemistry, 2004, 279, 49268-49273.	1.6	7
59	Functional pharmacology of GABAA receptors containing the chicken brain Î³4 subunit. European Journal of Pharmacology, 2001, 419, 1-7.	1.7	5
60	Impaired Color Recognition in HCN1 Epilepsy: A Single Case Report. Frontiers in Neurology, 2022, 13, 834252.	1.1	5
61	Molecular determinants of transport function in zebrafish Slc34a Na-phosphate transporters. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2016, 311, R1213-R1222.	0.9	4
62	The Renal Type IIa Na/P_i Cotransporter. Cell Biochemistry and Biophysics, 2002, 36, 215-220.	0.9	3
63	Proximal Tubular Handling of Phosphate. , 2008, , 1979-1987.		3
64	Electrophysiological Analysis of Renal Na+-Coupled Divalent Anion Transporters. , 1999, 12, 251-267.		2
65	Proximal tubular Pi-transporter(s): Regulation via internalization/ degradation and resynthesis/insertion. Clinical and Experimental Nephrology, 1998, 2, 173-177.	0.7	1
66	Genetic Defects in Renal Phosphate Handling. , 2009, , 715-734.		1
67	Proximal Tubular Handling of Phosphate. , 2013, , 2351-2368.		1
68	Phosphate transport: from microperfusion to molecular cloning. Pflugers Archiv European Journal of Physiology, 2019, 471, 1-6.	1.3	1