

Ian Cameron Forster

List of Publications by Year in descending order

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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	Impaired Color Recognition in HCN1 Epilepsy: A Single Case Report. <i>Frontiers in Neurology</i> , 2022, 13, 834252.	1.1	5
2	Cation leak underlies neuronal excitability in an HCN1 developmental and epileptic encephalopathy. <i>Brain</i> , 2021, 144, 2060-2073.	3.7	26
3	Biophysical analysis of an HCN1 epilepsy variant suggests a critical role for S5 helix Met-305 in voltage sensor to pore domain coupling. <i>Progress in Biophysics and Molecular Biology</i> , 2021, 166, 156-172.	1.4	16
4	Mechanisms of phosphate transport. <i>Nature Reviews Nephrology</i> , 2019, 15, 482-500.	4.1	99
5	Novel GABRA2 variants in epileptic encephalopathy and intellectual disability with seizures. <i>Brain</i> , 2019, 142, e15-e15.	3.7	12
6	Phosphate transport: from microperfusion to molecular cloning. <i>Pflugers Archiv European Journal of Physiology</i> , 2019, 471, 1-6.	1.3	1
7	Functional consequences of the CAPOS mutation E818K of Na ⁺ ,K ⁺ -ATPase. <i>Journal of Biological Chemistry</i> , 2019, 294, 269-280.	1.6	14
8	The molecular mechanism of SLC34 proteins: insights from two decades of transport assays and structure-function studies. <i>Pflugers Archiv European Journal of Physiology</i> , 2019, 471, 15-42.	1.3	19
9	Gabapentin Modulates HCN4 Channel Voltage-Dependence. <i>Frontiers in Pharmacology</i> , 2017, 8, 554.	1.6	28
10	Shaping of Signal Transmission at the Photoreceptor Synapse by EAAT2 Glutamate Transporters. <i>ENeuro</i> , 2017, 4, ENEURO.0339-16.2017.	0.9	18
11	Loss of function of NaPilla causes nephrocalcinosis and possibly kidney insufficiency. <i>Pediatric Nephrology</i> , 2016, 31, 2289-2297.	0.9	34
12	Molecular determinants of transport function in zebrafish Slc34a Na-phosphate transporters. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 311, R1213-R1222.	0.9	4
13	Cation Interactions and Membrane Potential Induce Conformational Changes in NaPi-IIb. <i>Biophysical Journal</i> , 2016, 111, 973-988.	0.2	21
14	Autosomal-Recessive Mutations in SLC34A1 Encoding Sodium-Phosphate Cotransporter 2A Cause Idiopathic Infantile Hypercalcemia. <i>Journal of the American Society of Nephrology: JASN</i> , 2016, 27, 604-614.	3.0	207
15	Real-time functional characterization of cationic amino acid transporters using a new FRET sensor. <i>Pflugers Archiv European Journal of Physiology</i> , 2016, 468, 563-572.	1.3	9
16	Identification of the First Sodium Binding Site of the Phosphate Cotransporter NaPi-IIa (SLC34A1). <i>Biophysical Journal</i> , 2015, 108, 2465-2480.	0.2	30
17	Structural Fold and Binding Sites of the Human Na ⁺ -Phosphate Cotransporter NaPi-II. <i>Biophysical Journal</i> , 2014, 106, 1268-1279.	0.2	42
18	Correlating Charge Movements with Local Conformational Changes of a Na ⁺ -Coupled Cotransporter. <i>Biophysical Journal</i> , 2014, 106, 1618-1629.	0.2	14

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19	Conferring electrogenicity to the electroneutral phosphate cotransporter NaPi-IIc (SLC34A3) reveals an internal cation release step. <i>Pflugers Archiv European Journal of Physiology</i> , 2013, 465, 1261-1279.	1.3	12
20	Proximal Tubular Handling of Phosphate. , 2013, , 2351-2368.		1
21	Phosphate transporters of the SLC20 and SLC34 families. <i>Molecular Aspects of Medicine</i> , 2013, 34, 386-395.	2.7	173
22	Phosphate Transporters and Their Function. <i>Annual Review of Physiology</i> , 2013, 75, 535-550.	5.6	144
23	Using lithium to probe sequential cation interactions with GAT1. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 302, C1661-C1675.	2.1	17
24	Phosphate Transport Kinetics and Structure-Function Relationships of SLC34 and SLC20 Proteins. <i>Current Topics in Membranes</i> , 2012, 70, 313-356.	0.5	51
25	Lithium interactions with Na ⁺ -coupled inorganic phosphate cotransporters: insights into the mechanism of sequential cation binding. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 302, C539-C554.	2.1	30
26	A Semi-automated Electrophysiology System for Recording from <i>Xenopus</i> Oocytes Under Microgravity Conditions. <i>Microgravity Science and Technology</i> , 2012, 24, 237-244.	0.7	9
27	An Integrated Field-Effect Microdevice for Monitoring Membrane Transport in <i>Xenopus laevis</i> Oocytes via Lateral Proton Diffusion. <i>PLoS ONE</i> , 2012, 7, e39238.	1.1	25
28	Phosphate Transporters in Renal, Gastrointestinal, and Other Tissues. <i>Advances in Chronic Kidney Disease</i> , 2011, 18, 63-76.	0.6	36
29	Voltage- and substrate-dependent interactions between sites in putative re-entrant domains of a Na ⁺ -coupled phosphate cotransporter. <i>Pflugers Archiv European Journal of Physiology</i> , 2011, 461, 645-663.	1.3	18
30	The Tegument of the Human Parasitic Worm <i>Schistosoma mansoni</i> as an Excretory Organ: The Surface Aquaporin SmaAQP Is a Lactate Transporter. <i>PLoS ONE</i> , 2010, 5, e10451.	1.1	75
31	Genetic Defects in Renal Phosphate Handling. , 2009, , 715-734.		1
32	Substrate interactions of the electroneutral Na ⁺ -coupled inorganic phosphate cotransporter (NaPi-IIc). <i>Journal of Physiology</i> , 2009, 587, 4293-4307.	1.3	31
33	The Na ⁺ -P _i cotransporter PiT-2 (SLC20A2) is expressed in the apical membrane of rat renal proximal tubules and regulated by dietary P _i . <i>American Journal of Physiology - Renal Physiology</i> , 2009, 296, F691-F699.	1.3	149
34	The leak mode of type II Na ⁺ -Pi cotransporters. <i>Channels</i> , 2008, 2, 346-357.	1.5	41
35	Proximal Tubular Handling of Phosphate. , 2008, , 1979-1987.		3
36	Deciphering PiT transport kinetics and substrate specificity using electrophysiology and flux measurements. <i>American Journal of Physiology - Cell Physiology</i> , 2007, 293, C606-C620.	2.1	96

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37	Nucleotide recognition by the cytoplasmic domain of the human chloride transporter CIC-5. <i>Nature Structural and Molecular Biology</i> , 2007, 14, 60-67.	3.6	136
38	Temperature Dependence of Steady-State and Presteady-State Kinetics of a Type IIb Na ⁺ /Pi Cotransporter. <i>Journal of Membrane Biology</i> , 2007, 215, 81-92.	1.0	14
39	Electrogenic Kinetics of a Mammalian Intestinal Type IIb Na ⁺ /Pi Cotransporter. <i>Journal of Membrane Biology</i> , 2006, 212, 177-190.	1.0	46
40	Mapping Conformational Changes of a Type IIb Na ⁺ /Pi Cotransporter by Voltage Clamp Fluorometry. <i>Journal of Biological Chemistry</i> , 2006, 281, 28837-28849.	1.6	24
41	Voltage Clamp Fluorometric Measurements on a Type II Na ⁺ -coupled Pi Cotransporter: Shedding Light on Substrate Binding Order. <i>Journal of General Physiology</i> , 2006, 127, 539-555.	0.9	46
42	Substrate interactions in the human type IIa sodium-phosphate cotransporter (NaPi-IIa). <i>American Journal of Physiology - Renal Physiology</i> , 2005, 288, F969-F981.	1.3	41
43	Renouncing electroneutrality is not free of charge: Switching on electrogenicity in a Na ⁺ -coupled phosphate cotransporter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 12606-12611.	3.3	74
44	Structure-Function Relations of the First and Fourth Extracellular Linkers of the Type IIa Na ⁺ /Pi Cotransporter. <i>Journal of General Physiology</i> , 2004, 124, 489-503.	0.9	19
45	Structure-Function Relations of the First and Fourth Predicted Extracellular Linkers of the Type IIa Na ⁺ /Pi Cotransporter. <i>Journal of General Physiology</i> , 2004, 124, 475-488.	0.9	21
46	Aromatic Amino Acid Transporter AAT-9 of <i>Caenorhabditis elegans</i> Localizes to Neurons and Muscle Cells. <i>Journal of Biological Chemistry</i> , 2004, 279, 49268-49273.	1.6	7
47	Essential cysteine residues of the type IIa Na ⁺ /Pi cotransporter. <i>Pflugers Archiv European Journal of Physiology</i> , 2003, 446, 203-210.	1.3	17
48	Transport Function of the Renal Type IIa Na ⁺ /Pi Cotransporter Is Codetermined by Residues in Two Opposing Linker Regions. <i>Journal of General Physiology</i> , 2002, 120, 693-705.	0.9	24
49	Identification of functionally important sites in the first intracellular loop of the NaPi-IIa cotransporter. <i>American Journal of Physiology - Renal Physiology</i> , 2002, 282, F687-F696.	1.3	32
50	Forging the link between structure and function of electrogenic cotransporters: the renal type IIa Na ⁺ /Pi cotransporter as a case study. <i>Progress in Biophysics and Molecular Biology</i> , 2002, 80, 69-108.	1.4	63
51	The Renal Type IIa Na ⁺ /Pi Cotransporter. <i>Cell Biochemistry and Biophysics</i> , 2002, 36, 215-220.	0.9	3
52	Molecular mechanisms in proximal tubular and small intestinal phosphate reabsorption (Plenary) Tj ETQq0 0 0 rgBT ₂ /Overlock ₁₀ Tf 50 1	2.0	63
53	Amino acids involved in sodium interaction of murine type II Na ⁺ + Pi cotransporters expressed in <i>Xenopus</i> oocytes. <i>Journal of Physiology</i> , 2001, 531, 383-391.	1.3	15
54	Functional pharmacology of GABA _A receptors containing the chicken brain $\hat{\gamma}$ ₃₄ subunit. <i>European Journal of Pharmacology</i> , 2001, 419, 1-7.	1.7	5

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55	Cysteine Mutagenesis Reveals Novel Structure-Function Features within the Predicted Third Extracellular Loop of the Type IIA Na ⁺ /Pi Cotransporter. <i>Journal of General Physiology</i> , 2001, 117, 533-546.	0.9	52
56	Proximal Tubular Phosphate Reabsorption: Molecular Mechanisms. <i>Physiological Reviews</i> , 2000, 80, 1373-1409.	13.1	460
57	Molecular Determinants of pH Sensitivity of the Type IIA Na/Pi Cotransporter. <i>Journal of Biological Chemistry</i> , 2000, 275, 6284-6287.	1.6	39
58	The Functional Unit of the Renal Type IIA Na ⁺ /Pi Cotransporter Is a Monomer. <i>Journal of Biological Chemistry</i> , 2000, 275, 26113-26120.	1.6	61
59	Proton-Sensitive Transitions of Renal Type II Na ⁺ -Coupled Phosphate Cotransporter Kinetics. <i>Biophysical Journal</i> , 2000, 79, 215-230.	0.2	54
60	Stoichiometry and Na ⁺ binding cooperativity of rat and flounder renal type II Na ⁺ -Pi cotransporters. <i>American Journal of Physiology - Renal Physiology</i> , 1999, 276, F644-F649.	1.3	49
61	Posttranscriptional regulation of the proximal tubule NaPi-II transporter in response to PTH and dietary P _i . <i>American Journal of Physiology - Renal Physiology</i> , 1999, 277, F676-F684.	1.3	50
62	Properties of the Mutant Ser-460-Cys Implicate This Site in a Functionally Important Region of the Type IIA Na ⁺ /Pi Cotransporter Protein. <i>Journal of General Physiology</i> , 1999, 114, 637-652.	0.9	38
63	Protein kinase C activators induce membrane retrieval of type II Na ⁺ -phosphate cotransporters expressed in <i>Xenopus</i> oocytes. <i>Journal of Physiology</i> , 1999, 517, 327-340.	1.3	42
64	Erythropoietin modulates intracellular calcium in a human neuroblastoma cell line. <i>Journal of Physiology</i> , 1999, 516, 343-352.	1.3	91
65	Electrophysiological Analysis of Renal Na ⁺ -Coupled Divalent Anion Transporters. , 1999, 12, 251-267.		2
66	Proximal tubular Pi-transporter(s): Regulation via internalization/ degradation and resynthesis/insertion. <i>Clinical and Experimental Nephrology</i> , 1998, 2, 173-177.	0.7	1
67	Ras Pathway Activates Epithelial Na ⁺ Channel and Decreases Its Surface Expression in <i>Xenopus</i> Oocytes. <i>Molecular Biology of the Cell</i> , 1998, 9, 3417-3427.	0.9	79
68	The Voltage Dependence of a Cloned Mammalian Renal Type II Na ⁺ /Pi Cotransporter (NaPi-2). <i>Journal of General Physiology</i> , 1998, 112, 1-18.	0.9	111