Peter M Piermarini

List of Publications by Year
in descending order

73 papers	4,405 citations	218381 26 h-index	118652 62 g-index
77 all docs	77 docs citations	77 times ranked	3261 citing authors

#	Article	IF	Citations
1	The Multifunctional Fish Gill: Dominant Site of Gas Exchange, Osmoregulation, Acid-Base Regulation, and Excretion of Nitrogenous Waste. Physiological Reviews, 2005, 85, 97-177.	13.1	2,180
2	Ionic transport in the fish gill epithelium. , 1999, 283, 641-652.		193
3	Ionic transport in the fish gill epithelium. , 1999, 283, 641.		132
4	Immunochemical analysis of the vacuolar proton-ATPase B-subunit in the gills of a euryhaline stingray (Dasyatis sabina): effects of salinity and relation to Na+/K+-ATPase. Journal of Experimental Biology, 2001, 204, 3251-3259.	0.8	108
5	Pendrin immunoreactivity in the gill epithelium of a euryhaline elasmobranch. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2002, 283, R983-R992.	0.9	94
6	Transcellular and paracellular pathways of transepithelial fluid secretion in Malpighian (renal) tubules of the yellow fever mosquito Aedes aegypti. Acta Physiologica, 2011, 202, 387-407.	1.8	92
7	Osmoregulation of the Atlantic Stingray (Dasyatis sabina) from the Freshwater Lake Jesup of the St. Johns River, Florida. Physiological Zoology, 1998, 71, 553-560.	1.5	78
8	Effect of Human Carbonic Anhydrase II on the Activity of the Human Electrogenic Na/HCO3 Cotransporter NBCe1-A in Xenopus Oocytes. Journal of Biological Chemistry, 2006, 281, 19241-19250.	1.6	77
9	Evidence against a Direct Interaction between Intracellular Carbonic Anhydrase II and Pure C-terminal Domains of SLC4 Bicarbonate Transporters. Journal of Biological Chemistry, 2007, 282, 1409-1421.	1.6	69
10	The accumulation of methylamine counteracting solutes in elasmobranchs with differing levels of urea: a comparison of marine and freshwater species. Journal of Experimental Biology, 2006, 209, 860-870.	0.8	67
11	Neuronal nitric oxide synthase in the gill of the killifish, Fundulus heteroclitus. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2006, 144, 510-519.	0.7	60
12	Eliciting Renal Failure in Mosquitoes with a Small-Molecule Inhibitor of Inward-Rectifying Potassium Channels. PLoS ONE, 2013, 8, e64905.	1.1	57
13	An insecticide resistance-breaking mosquitocide targeting inward rectifier potassium channels in vectors of Zika virus and malaria. Scientific Reports, 2016, 6, 36954.	1.6	55
14	Analysis of the Aedes albopictus C6/36 genome provides insight into cell line utility for viral propagation. GigaScience, 2018, 7, 1-13.	3.3	51
15	NHE8 is an intracellular cation/H⁺exchanger in renal tubules of the yellow fever mosquitoAedes aegypti. American Journal of Physiology - Renal Physiology, 2009, 296, F730-F750.	1.3	50
16	Ade novotranscriptome of the Malpighian tubules in non-blood-fed and blood-fed Asian tiger mosquitoesAedes albopictus: insights into diuresis, detoxification, and blood meal processing. PeerJ, 2016, 4, e1784.	0.9	49
17	Cloning and functional characterization of inward-rectifying potassium (Kir) channels from Malpighian tubules of the mosquito Aedes aegypti. Insect Biochemistry and Molecular Biology, 2013, 43, 75-90.	1.2	47
18	A SLC4-like anion exchanger from renal tubules of the mosquito (Aedes aegypti): evidence for a novel role of stellate cells in diuretic fluid secretion. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 298, R642-R660.	0.9	42

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19	Discovery and Characterization of a Potent and Selective Inhibitor of Aedes aegypti Inward Rectifier Potassium Channels. PLoS ONE, 2014, 9, e110772.	1.1	40
20	Gap junctions in Malpighian tubules ofAedes aegypti. Journal of Experimental Biology, 2008, 211, 409-422.	0.8	39
21	COX2 in a euryhaline teleost, Fundulus heteroclitus: primary sequence, distribution, localization, and potential function in gills during salinity acclimation. Journal of Experimental Biology, 2006, 209, 1696-1708.	0.8	38
22	Transcriptomic Evidence for a Dramatic Functional Transition of the Malpighian Tubules after a Blood Meal in the Asian Tiger Mosquito Aedes albopictus. PLoS Neglected Tropical Diseases, 2014, 8, e2929.	1.3	37
23	Malpighian Tubules as Novel Targets for Mosquito Control. International Journal of Environmental Research and Public Health, 2017, 14, 111.	1.2	34
24	Role of an apical K,Cl cotransporter in urine formation by renal tubules of the yellow fever mosquito (Aedes aegypti). American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 301, R1318-R1337.	0.9	33
25	RNA-Seq Comparison of Larval and Adult Malpighian Tubules of the Yellow Fever Mosquito Aedes aegypti Reveals Life Stage-Specific Changes in Renal Function. Frontiers in Physiology, 2017, 8, 283.	1.3	33
26	Pharmacological Validation of an Inward-Rectifier Potassium (Kir) Channel as an Insecticide Target in the Yellow Fever Mosquito Aedes aegypti. PLoS ONE, 2014, 9, e100700.	1.1	33
27	Molecular identification and expression analysis of a diapause hormone receptor in the corn earworm, Helicoverpa zea. Peptides, 2014, 53, 250-257.	1.2	32
28	The single kinin receptor signals to separate and independent physiological pathways in Malpighian tubules of the yellow fever mosquito. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 299, R612-R622.	0.9	31
29	Molecular and functional characterization of Anopheles gambiae inward rectifier potassium (Kir1) channels: A novel role in egg production. Insect Biochemistry and Molecular Biology, 2014, 51, 10-19.	1.2	27
30	The molecular and immunochemical expression of innexins in the yellow fever mosquito, Aedes aegypti: Insights into putative life stage- and tissue-specific functions of gap junctions. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2015, 183, 11-21.	0.7	27
31	Localization and role of inward rectifier K+ channels in Malpighian tubules of the yellow fever mosquito Aedes aegypti. Insect Biochemistry and Molecular Biology, 2015, 67, 59-73.	1.2	27
32	The diapause program impacts renal excretion and molecular expression of aquaporins in the northern house mosquito, Culex pipiens. Journal of Insect Physiology, 2017, 98, 141-148.	0.9	27
33	Signaling to the apical membrane and to the paracellular pathway: changes in the cytosolic proteome ofAedesMalpighian tubules. Journal of Experimental Biology, 2009, 212, 329-340.	0.8	24
34	Can urban greening increase vector abundance in cities? The impact of mowing, local vegetation, and landscape composition on adult mosquito populations. Urban Ecosystems, 2019, 22, 827-839.	1.1	24
35	Cloning and characterization of an electrogenic Na/HCO3â^' cotransporter from the squid giant fiber lobe. American Journal of Physiology - Cell Physiology, 2007, 292, C2032-C2045.	2.1	23
36	A natural agonist of mosquito TRPA1 from the medicinal plant Cinnamosma fragrans that is toxic, antifeedant, and repellent to the yellow fever mosquito Aedes aegypti. PLoS Neglected Tropical Diseases, 2018, 12, e0006265.	1.3	23

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37	Cloning and characterization of cDNAs encoding steroidogenic acute regulatory protein from freshwater stingrays (Potamotrygon spp.). Journal of Molecular Endocrinology, 2005, 35, 557-569.	1.1	22
38	Slc4-like anion transporters of the larval mosquito alimentary canal. Journal of Insect Physiology, 2012, 58, 551-562.	0.9	21
39	The excretion of NaCl and KCl loads in mosquitoes. 1. Control data. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2014, 307, R837-R849.	0.9	20
40	Targeting renal epithelial channels for the control of insect vectors. Tissue Barriers, 2015, 3, e1081861.	1.6	20
41	Excretion of NaCl and KCl loads in mosquitoes. 2. Effects of the small molecule Kir channel modulator VU573 and its inactive analog VU342. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2014, 307, R850-R861.	0.9	19
42	Pharmacological and Genetic Evidence for Gap Junctions as Potential New Insecticide Targets in the Yellow Fever Mosquito, Aedes aegypti. PLoS ONE, 2015, 10, e0137084.	1.1	19
43	Molecular mechanisms of bi-directional ion transport in the Malpighian tubules of a lepidopteran crop pest, Trichoplusia ni. Journal of Insect Physiology, 2018, 109, 55-68.	0.9	19
44	Identification of life-stage and tissue-specific splice variants of an inward rectifying potassium (Kir) channel in the yellow fever mosquito Aedes aegypti. Insect Biochemistry and Molecular Biology, 2014, 48, 91-99.	1.2	17
45	Insecticidal and Antifeedant Activities of Malagasy Medicinal Plant (Cinnamosma sp.) Extracts and Drimane-Type Sesquiterpenes against Aedes aegypti Mosquitoes. Insects, 2019, 10, 373.	1.0	17
46	Molecular characterization of genes encoding inward rectifier potassium (Kir) channels in the bed bug (Cimex lectularius). Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2013, 164, 275-279.	0.7	16
47	Malpighian tubules ofTrichoplusia ni: recycling ions via gap junctions and switching between secretion and reabsorption of Na+ and K+ in the distal ileac plexus. Journal of Experimental Biology, 2018, 221, .	0.8	16
48	Dynamic expression of genes encoding subunits of inward rectifier potassium (Kir) channels in the yellow fever mosquito Aedes aegypti. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2017, 204, 35-44.	0.7	15
49	Evidence for intercellular communication in mosquito renal tubules: A putative role of gap junctions in coordinating and regulating the rapid diuretic effects of neuropeptides. General and Comparative Endocrinology, 2014, 203, 43-48.	0.8	14
50	Differential expression of putative sodium-dependent cation-chloride cotransporters in Aedes aegypti. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2017, 214, 40-49.	0.8	13
51	Physiological characterization and regulation of the contractile properties of the mosquito ventral diverticulum (crop). Journal of Insect Physiology, 2017, 103, 98-106.	0.9	13
52	Molecular expression of aquaporin mRNAs in the northern house mosquito, Culex pipiens. Journal of Insect Physiology, 2017, 96, 35-44.	0.9	13
53	A Blood Meal Enhances Innexin mRNA Expression in the Midgut, Malpighian Tubules, and Ovaries of the Yellow Fever Mosquito Aedes aegypti. Insects, 2017, 8, 122.	1.0	9
54	Inward rectifier potassium (Kir) channels in the soybean aphid Aphis glycines: Functional characterization, pharmacology, and toxicology. Journal of Insect Physiology, 2018, 110, 57-65.	0.9	9

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55	Heterologous Expression of Aedes aegypti Cation Chloride Cotransporter 2 (aeCCC2) in Xenopus laevis Oocytes Induces an Enigmatic Na+/Li+ Conductance. Insects, 2019, 10, 71.	1.0	9
56	Roles of PKC and phosphoâ€‘adducin in transepithelial fluid secretion by Malpighian tubules of the yellow fever mosquito. Tissue Barriers, 2013, 1, e23120.	1.6	6
57	Semi-synthetic cinnamodial analogues: Structural insights into the insecticidal and antifeedant activities of drimane sesquiterpenes against the mosquito Aedes aegypti. PLoS Neglected Tropical Diseases, 2020, 14, e0008073.	1.3	6
58	Descriptions of the Immature Stages of Lutzomyia (Tricholateralis) cruciata (Coquillett) (Diptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.5	5
59	Osmotic and Ionic Regulation in Insects. , 2008, , 231-293.		4
60	Morphology variation of Lutzomyia cruciata eggs (Diptera: Psychodidae: Phlebotominae) in southern Mexico. Zootaxa, 2017, 4258, 477.	0.2	4
61	Pharmacological Inhibition of Inward Rectifier Potassium Channels Induces Lethality in Larval Aedes aegypti. Insects, 2018, 9, 163.	1.0	4
62	Discovery and Characterization of 2-Nitro-5-(4-(phenylsulfonyl)piperazin-1-yl)-N-(pyridin-4-ylmethyl)anilines as Novel Inhibitors of the Aedes aegypti Kir1 (AeKir1) Channel. ACS Infectious Diseases, 2019, 5, 917-931.	1.8	4
63	The Molecular Physiology and Toxicology of Inward Rectifier Potassium Channels in Insects. Annual Review of Entomology, 2022, 67, 125-142.	5.7	4
64	Further SAR on the (Phenylsulfonyl)piperazine Scaffold as Inhibitors of the Aedes aegypti Kir1 (AeKir) Channel and Larvicides. ChemMedChem, 2021, 16, 319-327.	1.6	3
65	Larvicidal Activity of Carbon Black against the Yellow Fever Mosquito Aedes aegypti. Insects, 2022, 13, 307.	1.0	3
66	Non-traditional Models: The Molecular Physiology of Sodium and Water Transport in Mosquito Malpighian Tubules. , 2015, , 255-278.		2
67	Sequence analysis and function of mosquito aeCCC2 and Drosophila Ncc83 orthologs. Insect Biochemistry and Molecular Biology, 2022, 143, 103729.	1.2	2
68	Stop the crop: Insights into the insecticidal mode of action of cinnamodial against mosquitoes. Pesticide Biochemistry and Physiology, 2021, 171, 104743.	1.6	1
69	Introduction to the Special Issue on Insect Epithelial Transport. Journal of Insect Physiology, 2012, 58, 427.	0.9	0
70	Morphological discontinuous variation and disparity in Lutzomyia (Tricholateralis) cruciata Coquillett, 1907 are not related to contrasting environmental factors in two biogeographical provinces. Zoomorphology, 2019, 138, 335-348.	0.4	0
71	Cloning of a unique electrogenic bicarbonate transporter from the squid giant fiber lobe. FASEB Journal, 2006, 20, A842.	0.2	0
72	Expression of Sodiumâ€Dependent Cationâ€Chloride Cotransporters in Adult and Larval Osmoregulatory Tissues of Aedes aegypti Mosquitoes. FASEB Journal, 2017, 31, 889.9.	0.2	0

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73	Functional analysis of mosquito and Drosophila Na⁺â€dependent cationâ€chloride cotransporters. FASEB Journal, 2020, 34, 1-1.	0.2	0