Francisco A Leone

List of Publications by Year in Descending Order

100 papers	2,031 citations	27 h-index	39 g-index
102 ext. papers	2,169 ext. citations	3.4 avg, IF	4.25 L-index

#	Paper	IF	Citations
100	Effects of ammonia on gill (Na, K)-ATPase kinetics in a hololimnetic population of the Amazon River shrimp Macrobrachium amazonicum.. *Aquatic Toxicology*, **2022**, 246, 106144	5.1	
99	Salinity-dependent modulation by protein kinases and the fxyd2 peptide of gill (Na+, K+)-ATPase activity in the freshwater shrimp Macrobrachium amazonicum (Decapoda, Palaemonidae). *Biochimica Et Biophysica Acta - Biomembranes*, **2022**, 183982	3.8	
98	Osmotic and ionic regulation, and kinetic characteristics of a posterior gill (Na+, K+)-ATPase from the blue crab Callinectes danae on acclimation to salinity challenge. *Marine Biology*, **2021**, 168, 1	2.5	2
97	Osmotic and ionic regulation, and modulation by protein kinases, FXYD2 peptide and ATP of gill (Na, K)-ATPase activity, in the swamp ghost crab Ucides cordatus (Brachyura, Ocypodidae). *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2020**, 250, 110507	2.3	6
96	Biochemical Characterization and Allosteric Modulation by Magnesium of (Na, K)-ATPase Activity in the Gills of the Red Mangrove Crab Goniopsis cruentata (Brachyura, Grapsidae). *Journal of Membrane Biology*, **2020**, 253, 229-245	2.3	2
95	Dopamine binding directly up-regulates (Na, K)-ATPase activity in the gills of the freshwater shrimp Macrobrachium amazonicum. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2019**, 233, 39-47	2.6	1
94	Kinetic characterization of the gill (Na, K)-ATPase in a hololimnetic population of the diadromous Amazon River shrimp Macrobrachium amazonicum (Decapoda, Palaemonidae). *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2019**, 227, 64-74	2.3	5
93	Open Data on Donation and Transplantation in Buenos Aires City. *Transplantation*, **2018**, 102, S809	1.8	
92	Short- and long-term salinity challenge, osmoregulatory ability, and (Na, K)-ATPase kinetics and □subunit mRNA expression in the gills of the thinstripe hermit crab Clibanarius symmetricus (Anomura, Diogenidae). *Comparative Biochemistry and Physiology Part A, Molecular &*	2.6	9
91	Gill (Na+, K+)-ATPase from the Amazon River shrimp, Macrobrachium amazonicum (Decapoda, Palaemonidae): effect of exogenous biogenic amines on enzyme activity in juveniles and adults. *Hydrobiologia*, **2017**, 789, 59-76	2.4	7
90	Polyamines regulate phosphorylation-dephosphorylation kinetics in a crustacean gill (Na, K)-ATPase. *Molecular and Cellular Biochemistry*, **2017**, 429, 187-198	4.2	8
89	Gill Ion Transport ATPases and Ammonia Excretion in Aquatic Crustaceans **2017**, 61-107		9
88	A Kinetic Characterization of the Gill (Na, K)-ATPase from the Semi-terrestrial Mangrove Crab Cardisoma guanhumi Latreille, 1825 (Decapoda, Brachyura). *Journal of Membrane Biology*, **2017**, 250, 517-534	2.3	7
87	Low salinity-induced alterations in epithelial ultrastructure, Na/K-ATPase immunolocalization and enzyme kinetic characteristics in the gills of the thinstripe hermit crab, Clibanarius vittatus (Anomura, Diogenidae). *Journal of Experimental Zoology Part A: Ecological and Integrative Physiology*, **2017**, 327, 380-397	1.9	7
86	Effects of ammonia stress in the Amazon river shrimp Macrobrachium amazonicum (Decapoda, Palaemonidae). *Aquatic Toxicology*, **2016**, 170, 13-23	5.1	35
85	Gill-specific (Na(+), K(+))-ATPase activity and □subunit mRNA expression during low-salinity acclimation of the ornate blue crab Callinectes ornatus (Decapoda, Brachyura). *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2015**, 186, 59-67	2.3	22
84	A kinetic characterization of the gill V(H(+))-ATPase in juvenile and adult Macrobrachium amazonicum, a diadromous palaemonid shrimp. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2015**, 181, 15-25	2.3	10

83	A kinetic characterization of (Na+, K+)-ATPase activity in the gills of the pelagic seabob shrimp Xiphopenaeus kroyeri (Decapoda, Penaeidae). *Journal of Membrane Biology*, **2015**, 248, 257-72	2.3	8
82	Modulation by K+ Plus NH4+ of microsomal (Na+, K+)-ATPase activity in selected ontogenetic stages of the diadromous river shrimp Macrobrachium amazonicum (Decapoda, Palaemonidae). *PLoS ONE*, **2014**, 9, e89625	3.7	17
81	Subcellular localization and kinetic characterization of a gill (Na+, K+)-ATPase from the giant freshwater prawn Macrobrachium rosenbergii. *Journal of Membrane Biology*, **2013**, 246, 529-43	2.3	18
80	Synergistic stimulation by potassium and ammonium of K(+)-phosphatase activity in gill microsomes from the crab Callinectes ornatus acclimated to low salinity: novel property of a primordial pump. *Archives of Biochemistry and Biophysics*, **2013**, 530, 55-63	4.1	6
79	Hemolymph ion regulation and kinetic characteristics of the gill (Na+, K+)-ATPase in the hermit crab Clibanarius vittatus (Decapoda, Anomura) acclimated to high salinity. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2012**, 161, 380-91	2.3	23
78	Identification of a crab gill FXYD2 protein and regulation of crab microsomal Na,K-ATPase activity by mammalian FXYD2 peptide. *Biochimica Et Biophysica Acta - Biomembranes*, **2012**, 1818, 2588-97	3.8	24
77	Kinetic analysis of gill (Na+,K+)-ATPase activity in selected ontogenetic stages of the Amazon River shrimp, Macrobrachium amazonicum (Decapoda, Palaemonidae): interactions at ATP- and cation-binding sites. *Journal of Membrane Biology*, **2012**, 245, 201-15	2.3	20
76	Na+,K+-ATPase activity in the posterior gills of the blue crab, Callinectes ornatus (Decapoda, Brachyura): modulation of ATP hydrolysis by the biogenic amines spermidine and spermine. *Journal of Membrane Biology*, **2011**, 244, 9-20	2.3	9
75	Purification and biochemical properties of a glucose-stimulated beta-D-glucosidase produced by Humicola grisea var. thermoidea grown on sugarcane bagasse. *Journal of Microbiology*, **2010**, 48, 53-62	3	53
74	Cation transport coupled to ATP hydrolysis by the (Na, K)-ATPase: An integrated, animated model. *Biochemistry and Molecular Biology Education*, **2010**, 38, 276-9	1.3	2
73	Purification and biochemical characterization of a mycelial glucose- and xylose-stimulated β-glucosidase from the thermophilic fungus Humicola insolens. *Process Biochemistry*, **2010**, 45, 272-278	4.8	61
72	Na,K-ATPase activity and epithelial interfaces in gills of the freshwater shrimp Macrobrachium amazonicum (Decapoda, Palaemonidae). *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2009**, 152, 431-9	2.6	35
71	Na+, K+-ATPase activity in gill microsomes from the blue crab, Callinectes danae, acclimated to low salinity: novel perspectives on ammonia excretion. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2009**, 153, 141-8	2.6	36
70	Hemolymph ionic regulation and adjustments in gill (Na+, K+)-ATPase activity during salinity acclimation in the swimming crab Callinectes ornatus (Decapoda, Brachyura). *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2009**, 154, 44-55	2.6	33
69	Molecular view of the interaction between iota-carrageenan and a phospholipid film and its role in enzyme immobilization. *Journal of Physical Chemistry B*, **2009**, 113, 7491-7	3.4	30
68	The crustacean gill (Na+,K+)-ATPase: allosteric modulation of high- and low-affinity ATP-binding sites by sodium and potassium. *Archives of Biochemistry and Biophysics*, **2008**, 479, 139-44	4.1	13
67	Regulation by the exogenous polyamine spermidine of Na,K-ATPase activity from the gills of the euryhaline swimming crab Callinectes danae (Brachyura, Portunidae). *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2008**, 149, 622-9	2.3	13
66	Removal from the membrane affects the interaction of rat osseous plate ecto-nucleosidetriphosphate diphosphohydrolase-1 with substrates and ions. *Journal of Membrane Biology*, **2008**, 224, 33-44	2.3	

65	Purification and biochemical characterization of thermostable alkaline phosphatases produced by Rhizopus microsporus var. rhizopodiformis. *Folia Microbiologica*, **2008**, 53, 509-16	2.8	8
64	Rat osseous plate alkaline phosphatase as Langmuir monolayer--an infrared study at the air-water interface. *Journal of Colloid and Interface Science*, **2008**, 320, 476-82	9.3	25
63	Long-term exposure of the freshwater shrimp Macrobrachium olfersii to elevated salinity: effects on gill (Na+,K+)-ATPase alpha-subunit expression and K+-phosphatase activity. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2007**, 146, 534-43	2.6	21
62	K+ and NH4(+) modulate gill (Na+, K+)-ATPase activity in the blue crab, Callinectes ornatus: fine tuning of ammonia excretion. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2007**, 147, 145-55	2.6	42
61	Gill (Na+,K+)-ATPase in diadromous, freshwater palaemonid shrimps: species-specific kinetic characteristics and alpha-subunit expression. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2007**, 148, 178-88	2.6	50
60	Influence of the glycosylphosphatidylinositol anchor in the morphology and roughness of Langmuir**B**lodgett films of phospholipids containing alkaline phosphatases. *Thin Solid Films*, **2007**, 515, 4801-4807	2.2	26
59	Structural and kinetic alterations of constitutive conidial alkaline phosphatase from the osmotically-sensitive mutant of Neurospora crassa. *Folia Microbiologica*, **2006**, 51, 431-7	2.8	5
58	A kinetic study of the gill (Na+, K+)-ATPase, and its role in ammonia excretion in the intertidal hermit crab, Clibanarius vittatus. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2006**, 145, 346-56	2.6	30
57	Effect of molecular surface packing on the enzymatic activity modulation of an anchored protein on phospholipid Langmuir monolayers. *Langmuir*, **2005**, 21, 4090-5	4	53
56	Gill microsomal (Na+,K+)-ATPase from the blue crab Callinectes danae: Interactions at cationic sites. *International Journal of Biochemistry and Cell Biology*, **2005**, 37, 2521-35	5.6	35
55	Incorporation conditions guiding the aggregation of a glycosylphosphatidyl inositol (GPI)-anchored protein in Langmuir monolayers. *Colloids and Surfaces B: Biointerfaces*, **2005**, 46, 248-54	6	24
54	SigrafW: An easy-to-use program for fitting enzyme kinetic data. *Biochemistry and Molecular Biology Education*, **2005**, 33, 399-403	1.3	90
53	K+-Phosphatase activity of gill (Na+, K+)-ATPase from the blue crab, Callinectes danae: low-salinity acclimation and expression of the alpha-subunit. *Journal of Experimental Zoology Part A, Comparative Experimental Biology*, **2005**, 303, 294-307		12
52	Adsorption kinetics and dilatational rheological studies for the soluble and anchored forms of alkaline phosphatase at the air/water interface. *Journal of the Brazilian Chemical Society*, **2005**, 16, 969-977	1.5	30
51	Characterization and properties of acid phosphatases with phytase activity produced by Aspergillus caespitosus. *Biotechnology and Applied Biochemistry*, **2004**, 40, 201-7	2.8	23
50	Streptozotocin-induced diabetes influences the activity of ecto-nucleoside triphosphate diphosphohydrolase 1 of rat osseous plate membranes. *Molecular and Cellular Biochemistry*, **2004**, 267, 99-106	4.2	
49	Modulation of gill Na+,K+-ATPase activity by ammonium ions: Putative coupling of nitrogen excretion and ion uptake in the freshwater shrimp Macrobrachium olfersii. *The Journal of Experimental Zoology*, **2004**, 301, 63-74		43
48	Surface density as a significant parameter for the enzymatic activity of two forms of alkaline phosphatase immobilized on phospholipid Langmuir-Blodgett films. *Journal of Colloid and Interface Science*, **2004**, 275, 123-30	9.3	36

47	Extracellular alkaline phosphatase from the filamentous fungus Aspergillus caespitosus: purification and biochemical characterization. *Folia Microbiologica*, **2003**, 48, 627-32	2.8	11
46	Characterization of an ectonucleoside triphosphate diphosphohydrolase 1 activity in alkaline phosphatase-depleted rat osseous plate membranes: possible functional involvement in the calcification process. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2003**, 1646, 216-25	4	12
45	Adsorption of detergent-solubilized and phospholipase C-solubilized alkaline phosphatase at air/liquid interfaces. *Colloids and Surfaces B: Biointerfaces*, **2003**, 30, 273-282	6	27
44	Gill (Na+,K+)-ATPase from the blue crab Callinectes danae: modulation of K+-phosphatase activity by potassium and ammonium ions. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2003**, 134, 631-40	2.3	16
43	Enzymatic activity of alkaline phosphatase adsorbed on dimyristoylphosphatidic acid LangmuirBlodgett films. *Colloids and Surfaces B: Biointerfaces*, **2002**, 25, 119-128	6	44
42	Rat osseous plate alkaline phosphatase: effect of neutral protease digestion on the hydrolysis of pyrophosphate and nitrophenylphosphate. *Molecular and Cellular Biochemistry*, **2002**, 241, 69-79	4.2	10
41	Modulation by ammonium ions of gill microsomal (Na+,K+)-ATPase in the swimming crab Callinectes danae: a possible mechanism for regulation of ammonia excretion. *Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology*, **2002**, 132, 471-82	3.2	31
40	Nitrophenylphosphate as a tool to characterize gill Na(+), K(+)-ATPase activity in hyperregulating Crustacea. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2001**, 130, 665-76	2.6	14
39	Kinetic characteristics of ATP hydrolysis by a detergent-solubilized alkaline phosphatase from rat osseous plate. *IUBMB Life*, **2000**, 49, 113-9	4.7	16
38	Characterization of (Na+, K+)-ATPase in gill microsomes of the freshwater shrimp Macrobrachium olfersii. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2000**, 126, 303-15	2.3	73
37	A simple laboratory experiment to demonstrate the interaction of proteins bearing glycosylphosphatidylinositol anchors with liposomes. *Biochemical Education*, **1999**, 27, 41-44		11
36	Streptozotocin-induced diabetes: significant changes in the kinetic properties of the soluble form of rat bone alkaline phosphatase. *Biochemical Pharmacology*, **1999**, 58, 841-9	6	9
35	A biotinylated conducting polypyrrole for the spatially controlled construction of an amperometric biosensor. *Analytical Chemistry*, **1999**, 71, 3692-7	7.8	105
34	Allosteric modulation of pyrophosphatase activity of rat osseous plate alkaline phosphatase by magnesium ions. *International Journal of Biochemistry and Cell Biology*, **1998**, 30, 89-97	5.6	18
33	Kinetic characterization of a membrane-specific ATPase from rat osseous plate and its possible significance on endochodral ossification. *Biochimica Et Biophysica Acta - Biomembranes*, **1998**, 1368, 108-14	3.8	17
32	A Bienzyme Electrode (Alkaline PhosphatasePolyphenol Oxidase) for the Amperometric Determination of Phosphate. *Analytical Chemistry*, **1998**, 70, 3952-3956	7.8	66
31	Inorganic pyrophosphate-phosphohydrolytic activity associated with rat osseous plate alkaline phosphatase. *Cellular and Molecular Biology*, **1998**, 44, 293-302	1.1	18
30	Dependence of divalent metal ions on phosphotransferase activity of osseous plate alkaline phosphatase. *Journal of Inorganic Biochemistry*, **1997**, 66, 51-5	4.2	9

29	Effect of calcium ions on rat osseous plate alkaline phosphatase activity. *Journal of Inorganic Biochemistry*, **1997**, 68, 123-7	4.2	13
28	Conidial alkaline phosphatase from Neurospora crassa. *Phytochemistry*, **1996**, 41, 71-5	4	18
27	Characterization of the phosphatidylinositol-specific phospholipase C-released form of rat osseous plate alkaline phosphatase and its possible significance on endochondral ossification. *Molecular and Cellular Biochemistry*, **1995**, 152, 121-9	4.2	45
26	Rat osseous plate alkaline phosphatase: mechanism of action of manganese ions. *BioMetals*, **1995**, 8, 86-91	3.4	9
25	Mechanism of action of cobalt ions on rat osseous plate alkaline phosphatase. *Journal of Inorganic Biochemistry*, **1995**, 60, 155-62	4.2	6
24	Quantification of trehalose in biological samples with a conidial trehalase from the thermophilic fungus Humicola grisea var. thermoidea. *World Journal of Microbiology and Biotechnology*, **1994**, 10, 17-9	4.4	33
23	Phosphodiesterase activity is a novel property of alkaline phosphatase from osseous plate. *Biochemical Journal*, **1994**, 301 (Pt 2), 517-22	3.8	58
22	Kinetic properties of osseous plate alkaline phosphatase from diabetic rats. *Comparative Biochemistry and Physiology A, Comparative Physiology*, **1993**, 104, 469-74		7
21	Allosteric modulation by ATP, calcium and magnesium ions of rat osseous plate alkaline phosphatase. *BBA - Proteins and Proteomics*, **1993**, 1202, 22-8		19
20	Sigraf: A versatile computer program for fitting enzyme kinetic data. *Biochemical Education*, **1992**, 20, 94-96		31
19	Phosphotransferase activity associated with rat osseous plate alkaline phosphatase: a possible role in biomineralization. *International Journal of Biochemistry & Cell Biology*, **1992**, 24, 1391-6		15
18	Effect of pH on the modulation of rat osseous plate alkaline phosphatase by metal ions. *International Journal of Biochemistry & Cell Biology*, **1992**, 24, 923-8		8
17	Polyoxyethylene 9-lauryl ether-solubilized alkaline phosphatase: synergistic stimulation by zinc and magnesium ions. *International Journal of Biochemistry & Cell Biology*, **1992**, 24, 611-5		13
16	Alkaline phosphatase from rat osseous plates: purification and biochemical characterization of a soluble form. *Biochimica Et Biophysica Acta - General Subjects*, **1991**, 1074, 256-62	4	36
15	Hazard materials testing at the U.S. department of energyЂs liquefied gaseous fuels spill test facility. *Plant/Operations Progress*, **1990**, 9, 226-230		1
14	Effect of membrane moiety and magnesium ions on the inhibition of matrix-induced alkaline phosphatase by zinc ions. *International Journal of Biochemistry & Cell Biology*, **1990**, 22, 747-51		23
13	Kinetic properties of mitochondrial ATPase during isoproterenol-induced cardiomyopathy. *International Journal of Biochemistry & Cell Biology*, **1990**, 22, 611-5		2
12	Solubilization of membrane-bound matrix-induced alkaline phosphatase with polyoxyethylene 9-lauryl ether (polidocanol): purification and metalloenzyme properties. *International Journal of Biochemistry & Cell Biology*, **1990**, 22, 385-92		32

11	Effect of Zn(II) and Mg(II) on phosphohydrolytic activity of rat matrix-induced alkaline phosphatase **1989**, 35, 503-10		4
10	Kinetic properties of Triton X-100 solubilized bone matrix induced alkaline phosphatase **1988**, 34, 553-62		2
9	Triton X-100 solubilized bone matrix-induced alkaline phosphatase. *Comparative Biochemistry and Physiology Part B: Comparative Biochemistry*, **1987**, 87, 921-6		15
8	Kinetic characteristics of some inhibitors of matrix-induced alkaline phosphatase **1987**, 33, 625-35		4
7	Isolation and kinetic properties of an alkaline phosphatase from rat bone matrix-induced cartilage **1986**, 32, 55-62		9
6	Properties of acid phosphatase from scutella of germinating maize seeds. *Phytochemistry*, **1981**, 20, 1823-1826		21
5	Multiple active forms of sheep thrombin. *Comparative Biochemistry and Physiology Part B: Comparative Biochemistry*, **1980**, 67, 57-62		
4	Pig prothrombin: purification and properties. *Biochimie*, **1976**, 58, 505-12	4.6	4
3	Isolation and characterization of an active three-chain molecular species of bovine thrombin. *Biochemical Journal*, **1976**, 159, 29-33	3.8	7
2	Sheep prothrombin: purification and partial characterization. *Biochimica Et Biophysica Acta (BBA) - Protein Structure*, **1976**, 453, 410-7		3
1	Effect of salinity on modulation by ATP, protein kinases and FXYD2 peptide of gill (Na+, K+)-ATPase activity in the swamp ghost crabUcides cordatus(Brachyura, Ocypodidae)		1