

Francisco A Leone

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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	A biotinylated conducting polypyrrole for the spatially controlled construction of an amperometric biosensor. <i>Analytical Chemistry</i> , 1999 , 71, 3692-7	7.8	105
99	SigraFW: An easy-to-use program for fitting enzyme kinetic data. <i>Biochemistry and Molecular Biology Education</i> , 2005 , 33, 399-403	1.3	90
98	Characterization of (Na ⁺ , K ⁺)-ATPase in gill microsomes of the freshwater shrimp <i>Macrobrachium olfersii</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2000 , 126, 303-313	7.3	73
97	A Bi-enzyme Electrode (Alkaline Phosphatase-Polyphenol Oxidase) for the Amperometric Determination of Phosphate. <i>Analytical Chemistry</i> , 1998 , 70, 3952-3956	7.8	66
96	Purification and biochemical characterization of a mycelial glucose- and xylose-stimulated β -glucosidase from the thermophilic fungus <i>Humicola insolens</i> . <i>Process Biochemistry</i> , 2010 , 45, 272-278	4.8	61
95	Phosphodiesterase activity is a novel property of alkaline phosphatase from osseous plate. <i>Biochemical Journal</i> , 1994 , 301 (Pt 2), 517-22	3.8	58
94	Purification and biochemical properties of a glucose-stimulated beta-D-glucosidase produced by <i>Humicola grisea</i> var. <i>thermoidea</i> grown on sugarcane bagasse. <i>Journal of Microbiology</i> , 2010 , 48, 53-62	3	53
93	Effect of molecular surface packing on the enzymatic activity modulation of an anchored protein on phospholipid Langmuir monolayers. <i>Langmuir</i> , 2005 , 21, 4090-5	4	53
92	Gill (Na ⁺ ,K ⁺)-ATPase in diadromous, freshwater palaemonid shrimps: species-specific kinetic characteristics and alpha-subunit expression. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2007 , 148, 178-88	2.6	50
91	Characterization of the phosphatidylinositol-specific phospholipase C-released form of rat osseous plate alkaline phosphatase and its possible significance on endochondral ossification. <i>Molecular and Cellular Biochemistry</i> , 1995 , 152, 121-9	4.2	45
90	Enzymatic activity of alkaline phosphatase adsorbed on dimyristoylphosphatidic acid Langmuir-Blodgett films. <i>Colloids and Surfaces B: Biointerfaces</i> , 2002 , 25, 119-128	6	44
89	Modulation of gill Na ⁺ ,K ⁺ -ATPase activity by ammonium ions: Putative coupling of nitrogen excretion and ion uptake in the freshwater shrimp <i>Macrobrachium olfersii</i> . <i>The Journal of Experimental Zoology</i> , 2004 , 301, 63-74		43
88	K ⁺ and NH ₄ ⁺ modulate gill (Na ⁺ , K ⁺)-ATPase activity in the blue crab, <i>Callinectes ornatus</i> : fine tuning of ammonia excretion. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2007 , 147, 145-55	2.6	42
87	Na ⁺ , K ⁺ -ATPase activity in gill microsomes from the blue crab, <i>Callinectes danae</i> , acclimated to low salinity: novel perspectives on ammonia excretion. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2009 , 153, 141-8	2.6	36
86	Surface density as a significant parameter for the enzymatic activity of two forms of alkaline phosphatase immobilized on phospholipid Langmuir-Blodgett films. <i>Journal of Colloid and Interface Science</i> , 2004 , 275, 123-30	9.3	36
85	Alkaline phosphatase from rat osseous plates: purification and biochemical characterization of a soluble form. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1991 , 1074, 256-62	4	36
84	Effects of ammonia stress in the Amazon river shrimp <i>Macrobrachium amazonicum</i> (Decapoda, Palaemonidae). <i>Aquatic Toxicology</i> , 2016 , 170, 13-23	5.1	35

83	Na,K-ATPase activity and epithelial interfaces in gills of the freshwater shrimp <i>Macrobrachium amazonicum</i> (Decapoda, Palaemonidae). <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2009 , 152, 431-9	2.6	35
82	Gill microsomal (Na ⁺ ,K ⁺)-ATPase from the blue crab <i>Callinectes danae</i> : Interactions at cationic sites. <i>International Journal of Biochemistry and Cell Biology</i> , 2005 , 37, 2521-35	5.6	35
81	Hemolymph ionic regulation and adjustments in gill (Na ⁺ , K ⁺)-ATPase activity during salinity acclimation in the swimming crab <i>Callinectes ornatus</i> (Decapoda, Brachyura). <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2009 , 154, 44-55	2.6	33
80	Quantification of trehalose in biological samples with a conidial trehalase from the thermophilic fungus <i>Humicola grisea</i> var. <i>thermoidea</i> . <i>World Journal of Microbiology and Biotechnology</i> , 1994 , 10, 17-94	4.4	33
79	Solubilization of membrane-bound matrix-induced alkaline phosphatase with polyoxyethylene 9-lauryl ether (polidocanol): purification and metalloenzyme properties. <i>International Journal of Biochemistry & Cell Biology</i> , 1990 , 22, 385-92		32
78	Modulation by ammonium ions of gill microsomal (Na ⁺ ,K ⁺)-ATPase in the swimming crab <i>Callinectes danae</i> : a possible mechanism for regulation of ammonia excretion. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2002 , 132, 471-82	3.2	31
77	Sigraf: A versatile computer program for fitting enzyme kinetic data. <i>Biochemical Education</i> , 1992 , 20, 94-96		31
76	Molecular view of the interaction between iota-carrageenan and a phospholipid film and its role in enzyme immobilization. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 7491-7	3.4	30
75	A kinetic study of the gill (Na ⁺ , K ⁺)-ATPase, and its role in ammonia excretion in the intertidal hermit crab, <i>Clibanarius vittatus</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2006 , 145, 346-56	2.6	30
74	Adsorption kinetics and dilatational rheological studies for the soluble and anchored forms of alkaline phosphatase at the air/water interface. <i>Journal of the Brazilian Chemical Society</i> , 2005 , 16, 969-977	1.5	30
73	Adsorption of detergent-solubilized and phospholipase C-solubilized alkaline phosphatase at air/liquid interfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2003 , 30, 273-282	6	27
72	Influence of the glycosylphosphatidylinositol anchor in the morphology and roughness of Langmuir-Blodgett films of phospholipids containing alkaline phosphatases. <i>Thin Solid Films</i> , 2007 , 515, 4801-4807	2.2	26
71	Rat osseous plate alkaline phosphatase as Langmuir monolayer--an infrared study at the air-water interface. <i>Journal of Colloid and Interface Science</i> , 2008 , 320, 476-82	9.3	25
70	Identification of a crab gill FXYD2 protein and regulation of crab microsomal Na,K-ATPase activity by mammalian FXYD2 peptide. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012 , 1818, 2588-97	3.8	24
69	Incorporation conditions guiding the aggregation of a glycosylphosphatidyl inositol (GPI)-anchored protein in Langmuir monolayers. <i>Colloids and Surfaces B: Biointerfaces</i> , 2005 , 46, 248-54	6	24
68	Hemolymph ion regulation and kinetic characteristics of the gill (Na ⁺ , K ⁺)-ATPase in the hermit crab <i>Clibanarius vittatus</i> (Decapoda, Anomura) acclimated to high salinity. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2012 , 161, 380-91	2.3	23
67	Characterization and properties of acid phosphatases with phytase activity produced by <i>Aspergillus caespitosus</i> . <i>Biotechnology and Applied Biochemistry</i> , 2004 , 40, 201-7	2.8	23
66	Effect of membrane moiety and magnesium ions on the inhibition of matrix-induced alkaline phosphatase by zinc ions. <i>International Journal of Biochemistry & Cell Biology</i> , 1990 , 22, 747-51		23

65	Gill-specific (Na(+), K(+))-ATPase activity and β -subunit mRNA expression during low-salinity acclimation of the ornate blue crab <i>Callinectes ornatus</i> (Decapoda, Brachyura). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2015 , 186, 59-67	2.3	22
64	Long-term exposure of the freshwater shrimp <i>Macrobrachium olfersii</i> to elevated salinity: effects on gill (Na ⁺ ,K ⁺)-ATPase alpha-subunit expression and K ⁺ -phosphatase activity. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2007 , 146, 534-43	2.6	21
63	Properties of acid phosphatase from scutella of germinating maize seeds. <i>Phytochemistry</i> , 1981 , 20, 1823-1826	2.1	21
62	Kinetic analysis of gill (Na ⁺ ,K ⁺)-ATPase activity in selected ontogenetic stages of the Amazon River shrimp, <i>Macrobrachium amazonicum</i> (Decapoda, Palaemonidae): interactions at ATP- and cation-binding sites. <i>Journal of Membrane Biology</i> , 2012 , 245, 201-15	2.3	20
61	Allosteric modulation by ATP, calcium and magnesium ions of rat osseous plate alkaline phosphatase. <i>BBA - Proteins and Proteomics</i> , 1993 , 1202, 22-8		19
60	Subcellular localization and kinetic characterization of a gill (Na ⁺ , K ⁺)-ATPase from the giant freshwater prawn <i>Macrobrachium rosenbergii</i> . <i>Journal of Membrane Biology</i> , 2013 , 246, 529-43	2.3	18
59	Allosteric modulation of pyrophosphatase activity of rat osseous plate alkaline phosphatase by magnesium ions. <i>International Journal of Biochemistry and Cell Biology</i> , 1998 , 30, 89-97	5.6	18
58	Conidial alkaline phosphatase from <i>Neurospora crassa</i> . <i>Phytochemistry</i> , 1996 , 41, 71-5	4	18
57	Inorganic pyrophosphate-phosphohydrolytic activity associated with rat osseous plate alkaline phosphatase. <i>Cellular and Molecular Biology</i> , 1998 , 44, 293-302	1.1	18
56	Modulation by K ⁺ Plus NH ₄ ⁺ of microsomal (Na ⁺ , K ⁺)-ATPase activity in selected ontogenetic stages of the diadromous river shrimp <i>Macrobrachium amazonicum</i> (Decapoda, Palaemonidae). <i>PLoS ONE</i> , 2014 , 9, e89625	3.7	17
55	Kinetic characterization of a membrane-specific ATPase from rat osseous plate and its possible significance on endochondral ossification. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1998 , 1368, 108-14	3.8	17
54	Gill (Na ⁺ ,K ⁺)-ATPase from the blue crab <i>Callinectes danae</i> : modulation of K ⁺ -phosphatase activity by potassium and ammonium ions. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2003 , 134, 631-40	2.3	16
53	Kinetic characteristics of ATP hydrolysis by a detergent-solubilized alkaline phosphatase from rat osseous plate. <i>IUBMB Life</i> , 2000 , 49, 113-9	4.7	16
52	Phosphotransferase activity associated with rat osseous plate alkaline phosphatase: a possible role in biomineralization. <i>International Journal of Biochemistry & Cell Biology</i> , 1992 , 24, 1391-6		15
51	Triton X-100 solubilized bone matrix-induced alkaline phosphatase. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1987 , 87, 921-6		15
50	Nitrophenylphosphate as a tool to characterize gill Na(+), K(+)-ATPase activity in hyperregulating Crustacea. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2001 , 130, 665-76	2.6	14
49	Effect of calcium ions on rat osseous plate alkaline phosphatase activity. <i>Journal of Inorganic Biochemistry</i> , 1997 , 68, 123-7	4.2	13
48	The crustacean gill (Na ⁺ ,K ⁺)-ATPase: allosteric modulation of high- and low-affinity ATP-binding sites by sodium and potassium. <i>Archives of Biochemistry and Biophysics</i> , 2008 , 479, 139-44	4.1	13

47	Regulation by the exogenous polyamine spermidine of Na,K-ATPase activity from the gills of the euryhaline swimming crab <i>Callinectes danae</i> (Brachyura, Portunidae). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2008 , 149, 622-9	2.3	13
46	Polyoxyethylene 9-lauryl ether-solubilized alkaline phosphatase: synergistic stimulation by zinc and magnesium ions. <i>International Journal of Biochemistry & Cell Biology</i> , 1992 , 24, 611-5		13
45	Characterization of an ectonucleoside triphosphate diphosphohydrolase 1 activity in alkaline phosphatase-depleted rat osseous plate membranes: possible functional involvement in the calcification process. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2003 , 1646, 216-25	4	12
44	K+-Phosphatase activity of gill (Na+, K+)-ATPase from the blue crab, <i>Callinectes danae</i> : low-salinity acclimation and expression of the alpha-subunit. <i>Journal of Experimental Zoology Part A, Comparative Experimental Biology</i> , 2005 , 303, 294-307		12
43	Extracellular alkaline phosphatase from the filamentous fungus <i>Aspergillus caespitosus</i> : purification and biochemical characterization. <i>Folia Microbiologica</i> , 2003 , 48, 627-32	2.8	11
42	A simple laboratory experiment to demonstrate the interaction of proteins bearing glycosylphosphatidylinositol anchors with liposomes. <i>Biochemical Education</i> , 1999 , 27, 41-44		11
41	A kinetic characterization of the gill V(H(+))-ATPase in juvenile and adult <i>Macrobrachium amazonicum</i> , a diadromous palaemonid shrimp. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2015 , 181, 15-25	2.3	10
40	Rat osseous plate alkaline phosphatase: effect of neutral protease digestion on the hydrolysis of pyrophosphate and nitrophenylphosphate. <i>Molecular and Cellular Biochemistry</i> , 2002 , 241, 69-79	4.2	10
39	Gill Ion Transport ATPases and Ammonia Excretion in Aquatic Crustaceans 2017 , 61-107		9
38	Na+,K+-ATPase activity in the posterior gills of the blue crab, <i>Callinectes ornatus</i> (Decapoda, Brachyura): modulation of ATP hydrolysis by the biogenic amines spermidine and spermine. <i>Journal of Membrane Biology</i> , 2011 , 244, 9-20	2.3	9
37	Dependence of divalent metal ions on phosphotransferase activity of osseous plate alkaline phosphatase. <i>Journal of Inorganic Biochemistry</i> , 1997 , 66, 51-5	4.2	9
36	Streptozotocin-induced diabetes: significant changes in the kinetic properties of the soluble form of rat bone alkaline phosphatase. <i>Biochemical Pharmacology</i> , 1999 , 58, 841-9	6	9
35	Rat osseous plate alkaline phosphatase: mechanism of action of manganese ions. <i>BioMetals</i> , 1995 , 8, 86-91	3.4	9
34	Isolation and kinetic properties of an alkaline phosphatase from rat bone matrix-induced cartilage 1986 , 32, 55-62		9
33	Short- and long-term salinity challenge, osmoregulatory ability, and (Na, K)-ATPase kinetics and α -subunit mRNA expression in the gills of the thinstripe hermit crab <i>Clibanarius symmetricus</i> (Anomura, Diogenidae). <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2018 , 225, 16-25	2.6	9
32	Polyamines regulate phosphorylation-dephosphorylation kinetics in a crustacean gill (Na, K)-ATPase. <i>Molecular and Cellular Biochemistry</i> , 2017 , 429, 187-198	4.2	8
31	A kinetic characterization of (Na+, K+)-ATPase activity in the gills of the pelagic seabob shrimp <i>Xiphopenaeus kroyeri</i> (Decapoda, Penaeidae). <i>Journal of Membrane Biology</i> , 2015 , 248, 257-72	2.3	8
30	Purification and biochemical characterization of thermostable alkaline phosphatases produced by <i>Rhizopus microsporus</i> var. <i>rhizopodiformis</i> . <i>Folia Microbiologica</i> , 2008 , 53, 509-16	2.8	8

29	Effect of pH on the modulation of rat osseous plate alkaline phosphatase by metal ions. <i>International Journal of Biochemistry & Cell Biology</i> , 1992 , 24, 923-8		8
28	Gill (Na ⁺ , K ⁺)-ATPase from the Amazon River shrimp, <i>Macrobrachium amazonicum</i> (Decapoda, Palaemonidae): effect of exogenous biogenic amines on enzyme activity in juveniles and adults. <i>Hydrobiologia</i> , 2017 , 789, 59-76	2.4	7
27	A Kinetic Characterization of the Gill (Na, K)-ATPase from the Semi-terrestrial Mangrove Crab <i>Cardisoma guanhumi</i> Latreille, 1825 (Decapoda, Brachyura). <i>Journal of Membrane Biology</i> , 2017 , 250, 517-534	2.3	7
26	Low salinity-induced alterations in epithelial ultrastructure, Na/K-ATPase immunolocalization and enzyme kinetic characteristics in the gills of the thinstripe hermit crab, <i>Clibanarius vittatus</i> (Anomura, Diogenidae). <i>Journal of Experimental Zoology Part A: Ecological and Integrative Physiology</i> , 2017 , 327, 380-397	1.9	7
25	Kinetic properties of osseous plate alkaline phosphatase from diabetic rats. <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1993 , 104, 469-74		7
24	Isolation and characterization of an active three-chain molecular species of bovine thrombin. <i>Biochemical Journal</i> , 1976 , 159, 29-33	3.8	7
23	Osmotic and ionic regulation, and modulation by protein kinases, FXD2 peptide and ATP of gill (Na, K)-ATPase activity, in the swamp ghost crab <i>Ucides cordatus</i> (Brachyura, Ocypodidae). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2020 , 250, 110507	2.3	6
22	Synergistic stimulation by potassium and ammonium of K(+)-phosphatase activity in gill microsomes from the crab <i>Callinectes ornatus</i> acclimated to low salinity: novel property of a primordial pump. <i>Archives of Biochemistry and Biophysics</i> , 2013 , 530, 55-63	4.1	6
21	Mechanism of action of cobalt ions on rat osseous plate alkaline phosphatase. <i>Journal of Inorganic Biochemistry</i> , 1995 , 60, 155-62	4.2	6
20	Structural and kinetic alterations of constitutive conidial alkaline phosphatase from the osmotically-sensitive mutant of <i>Neurospora crassa</i> . <i>Folia Microbiologica</i> , 2006 , 51, 431-7	2.8	5
19	Kinetic characterization of the gill (Na, K)-ATPase in a hololimnetic population of the diadromous Amazon River shrimp <i>Macrobrachium amazonicum</i> (Decapoda, Palaemonidae). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2019 , 227, 64-74	2.3	5
18	Pig prothrombin: purification and properties. <i>Biochimie</i> , 1976 , 58, 505-12	4.6	4
17	Effect of Zn(II) and Mg(II) on phosphohydrolytic activity of rat matrix-induced alkaline phosphatase 1989 , 35, 503-10		4
16	Kinetic characteristics of some inhibitors of matrix-induced alkaline phosphatase 1987 , 33, 625-35		4
15	Sheep prothrombin: purification and partial characterization. <i>Biochimica Et Biophysica Acta (BBA) - Protein Structure</i> , 1976 , 453, 410-7		3
14	Cation transport coupled to ATP hydrolysis by the (Na, K)-ATPase: An integrated, animated model. <i>Biochemistry and Molecular Biology Education</i> , 2010 , 38, 276-9	1.3	2
13	Kinetic properties of mitochondrial ATPase during isoproterenol-induced cardiomyopathy. <i>International Journal of Biochemistry & Cell Biology</i> , 1990 , 22, 611-5		2
12	Kinetic properties of Triton X-100 solubilized bone matrix induced alkaline phosphatase 1988 , 34, 553-62		2

11	Biochemical Characterization and Allosteric Modulation by Magnesium of (Na, K)-ATPase Activity in the Gills of the Red Mangrove Crab <i>Goniopsis cruentata</i> (Brachyura, Grapsidae). <i>Journal of Membrane Biology</i> , 2020 , 253, 229-245	2.3	2
10	Osmotic and ionic regulation, and kinetic characteristics of a posterior gill (Na ⁺ , K ⁺)-ATPase from the blue crab <i>Callinectes danae</i> on acclimation to salinity challenge. <i>Marine Biology</i> , 2021 , 168, 1	2.5	2
9	Dopamine binding directly up-regulates (Na, K)-ATPase activity in the gills of the freshwater shrimp <i>Macrobrachium amazonicum</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2019 , 233, 39-47	2.6	1
8	Hazard materials testing at the U.S. department of energy's liquefied gaseous fuels spill test facility. <i>Plant/Operations Progress</i> , 1990 , 9, 226-230		1
7	Effect of salinity on modulation by ATP, protein kinases and FXD2 peptide of gill (Na ⁺ , K ⁺)-ATPase activity in the swamp ghost crab <i>Ucides cordatus</i> (Brachyura, Ocypodidae)		1
6	Removal from the membrane affects the interaction of rat osseous plate ecto-nucleosidetriphosphate diphosphohydrolase-1 with substrates and ions. <i>Journal of Membrane Biology</i> , 2008 , 224, 33-44	2.3	
5	Streptozotocin-induced diabetes influences the activity of ecto-nucleoside triphosphate diphosphohydrolase 1 of rat osseous plate membranes. <i>Molecular and Cellular Biochemistry</i> , 2004 , 267, 99-106	4.2	
4	Multiple active forms of sheep thrombin. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1980 , 67, 57-62		
3	Open Data on Donation and Transplantation in Buenos Aires City. <i>Transplantation</i> , 2018 , 102, S809	1.8	
2	Effects of ammonia on gill (Na, K)-ATPase kinetics in a hololimnetic population of the Amazon River shrimp <i>Macrobrachium amazonicum</i> . <i>Aquatic Toxicology</i> , 2022 , 246, 106144	5.1	
1	Salinity-dependent modulation by protein kinases and the fxd2 peptide of gill (Na ⁺ , K ⁺)-ATPase activity in the freshwater shrimp <i>Macrobrachium amazonicum</i> (Decapoda, Palaemonidae). <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2022 , 183982	3.8	