

Francisco A Leone

List of Publications by Year in descending order

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papers

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citations

172457

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102
docs citations

102
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1549
citing authors

#	ARTICLE	IF	CITATIONS
1	A Biotinylated Conducting Polypyrrole for the Spatially Controlled Construction of an Amperometric Biosensor. <i>Analytical Chemistry</i> , 1999, 71, 3692-3697.	6.5	116
2	SigraFW: An easy-to-use program for fitting enzyme kinetic data. <i>Biochemistry and Molecular Biology Education</i> , 2005, 33, 399-403.	1.2	99
3	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, 303-315.	1.6	83
4	A Bienzyme Electrode (Alkaline Phosphatase~Polyphenol Oxidase) for the Amperometric Determination of Phosphate. <i>Analytical Chemistry</i> , 1998, 70, 3952-3956.	6.5	73
5	Purification and biochemical characterization of a mycelial glucose- and xylose-stimulated Î²-glucosidase from the thermophilic fungus <i>Humicola insolens</i> . <i>Process Biochemistry</i> , 2010, 45, 272-278.	3.7	70
6	Phosphodiesterase activity is a novel property of alkaline phosphatase from osseous plate. <i>Biochemical Journal</i> , 1994, 301, 517-522.	3.7	65
7	Effect of Molecular Surface Packing on the Enzymatic Activity Modulation of an Anchored Protein on Phospholipid Langmuir Monolayers. <i>Langmuir</i> , 2005, 21, 4090-4095.	3.5	60
8	Purification and biochemical properties of a glucose-stimulated Î²-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.	2.8	58
9	Gill (Na ⁺ ,K ⁺)-ATPase in diadromous, freshwater palaemonid shrimps: Species-specific kinetic characteristics and Î±-subunit expression. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2007, 148, 178-188.	1.8	55
10	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, 301A, 63-74.	1.4	50
11	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, 121-129.	3.1	48
12	Enzymatic activity of alkaline phosphatase adsorbed on dimyristoylphosphatidic acid Langmuir-Blodgett films. <i>Colloids and Surfaces B: Biointerfaces</i> , 2002, 25, 119-128.	5.0	48
13	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, 145-155.	1.8	48
14	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, 431-439.	1.8	47
15	Effects of ammonia stress in the Amazon river shrimp <i>Macrobrachium amazonicum</i> (Decapoda,) Tj ETQq1 1 0.784314 rgBT / Qverlock 10 4.0 45	4.0	45
16	Alkaline phosphatase from rat osseous plates: purification and biochemical characterization of a soluble form. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1991, 1074, 256-262.	2.4	44
17	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.	1.8	43
18	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, 141-148.	1.8	42

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19	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, 123-130.	9.4	39
20	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, 17-19.	3.6	37
21	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, 471-482.	2.6	37
22	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, 2521-2535.	2.8	36
23	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, 346-356.	1.8	36
24	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.	1.6	36
25	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, 385-392.	0.5	34
26	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.	0.6	33
27	Sigraf: A versatile computer program for fitting enzyme kinetic data. <i>Biochemical Education</i> , 1992, 20, 94-96.	0.1	32
28	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, 476-482.	9.4	31
29	Molecular View of the Interaction between β -Carrageenan and a Phospholipid Film and Its Role in Enzyme Immobilization. <i>Journal of Physical Chemistry B</i> , 2009, 113, 7491-7497.	2.6	30
30	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.	5.0	28
31	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.	1.8	28
32	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, 747-751.	0.5	25
33	Characterization and properties of acid phosphatases with phytase activity produced by <i>Aspergillus caespitosus</i> . <i>Biotechnology and Applied Biochemistry</i> , 2004, 40, 201.	3.1	25
34	Incorporation conditions guiding the aggregation of a glycosylphosphatidyl inositol (GPI)-anchored protein in Langmuir monolayers. <i>Colloids and Surfaces B: Biointerfaces</i> , 2005, 46, 248-254.	5.0	25
35	Long-term exposure of the freshwater shrimp <i>Macrobrachium olfersii</i> to elevated salinity: Effects on gill (Na ⁺ ,K ⁺)-ATPase β -subunit expression and K ⁺ -phosphatase activity. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2007, 146, 534-543.	1.8	25
36	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, 2588-2597.	2.6	25

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37	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, 529-543.	2.1	24
38	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, 380-391.	1.6	23
39	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, 201-215.	2.1	23
40	Properties of acid phosphatase from scutella of germinating maize seeds. <i>Phytochemistry</i> , 1981, 20, 1823-1826.	2.9	22
41	Allosteric modulation by ATP, calcium and magnesium ions of rat osseous plate alkaline phosphatase. <i>BBA - Proteins and Proteomics</i> , 1993, 1202, 22-28.	2.1	20
42	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, 665-676.	1.8	20
43	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, 631-640.	1.6	20
44	Inorganic pyrophosphate-phosphohydrolytic activity associated with rat osseous plate alkaline phosphatase. <i>Cellular and Molecular Biology</i> , 1998, 44, 293-302.	0.9	20
45	Conidial alkaline phosphatase from <i>Neurospora crassa</i> . <i>Phytochemistry</i> , 1996, 41, 71-75.	2.9	19
46	Short- and long-term salinity challenge, osmoregulatory ability, and (Na ⁺ , K ⁺)-ATPase kinetics and β -subunit mRNA expression in the gills of the thinstripe hermit crab <i>Clibanarius symmetricus</i> (Anomura,) <i>Tj ETQq0 0 0 rgBT /Overlock 10</i> 2018, 225, 16-25.	1.8	19
47	Triton X-100 solubilized bone matrix-induced alkaline phosphatase. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1987, 87, 921-926.	0.2	18
48	Effect of calcium ions on rat osseous plate alkaline phosphatase activity. <i>Journal of Inorganic Biochemistry</i> , 1997, 68, 123-127.	3.5	18
49	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.	2.8	18
50	Kinetic Characteristics of ATP Hydrolysis by a Detergent-Solubilized Alkaline Phosphatase From Rat Osseous Plate. <i>IUBMB Life</i> , 2000, 49, 113-119.	3.4	18
51	Na ⁺ ,K ⁺ -ATPase Activity in the Posterior Gills of the Blue Crab, <i>Callinectes ornatus</i> (Decapoda,) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10</i> <i>Membrane Biology</i> , 2011, 244, 9-20.	2.1	18
52	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.	2.5	18
53	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, 108-114.	2.6	17
54	Phosphotransferase activity associated with rat osseous plate alkaline phosphatase: a possible role in biomineralization. <i>International Journal of Biochemistry & Cell Biology</i> , 1992, 24, 1391-1396.	0.5	16

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55	Osmotic and ionic regulation, and modulation by protein kinases, FXD2 peptide and ATP of gill (Na ⁺) Tj ETQq1 1 Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2020, 250, 110507.	0.784314 1.6	14 16
56	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, 216-225.	2.3	15
57	Polyoxyethylene 9-lauryl ether-solubilized alkaline phosphatase: Synergistic stimulation by zinc and magnesium ions. International Journal of Biochemistry & Cell Biology, 1992, 24, 611-615.	0.5	14
58	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.	1.6	14
59	Gill Ion Transport ATPases and Ammonia Excretion in Aquatic Crustaceans. , 2017, , 61-107.		14
60	A simple laboratory experiment to demonstrate the interaction of proteins bearing glycosylphosphatidylinositol anchors with liposomes. Biochemical Education, 1999, 27, 41-44.	0.1	13
61	K ⁺ -Phosphatase activity of gill (Na ⁺ , K ⁺)-ATPase from the blue crab, Callinectes danae: Low-salinity acclimation and expression of the α -subunit. Journal of Experimental Zoology Part A, Comparative Experimental Biology, 2005, 303A, 294-307.	1.3	13
62	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, 139-144.	3.0	13
63	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, 622-629.	1.6	13
64	Extracellular alkaline phosphatase from the filamentous fungus Aspergillus caespitosus: Purification and biochemical characterization. Folia Microbiologica, 2003, 48, 627-632.	2.3	12
65	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.	1.5	12
66	Dependence of divalent metal ions on phosphotransferase activity of osseous plate alkaline phosphatase. Journal of Inorganic Biochemistry, 1997, 66, 51-55.	3.5	11
67	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	11
68	Rat osseous plate alkaline phosphatase: mechanism of action of manganese ions. BioMetals, 1995, 8, 86-91.	4.1	10
69	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.	3.1	10
70	Kinetic properties of osseous plate alkaline phosphatase from diabetic rats. Comparative Biochemistry and Physiology A, Comparative Physiology, 1993, 104, 469-474.	0.6	9
71	Streptozotocin-induced diabetes: significant changes in the kinetic properties of the soluble form of rat bone alkaline phosphatase. Biochemical Pharmacology, 1999, 58, 841-849.	4.4	9
72	Purification and biochemical characterization of thermostable alkaline phosphatases produced by Rhizopus microsporus var. rhizopodiformis. Folia Microbiologica, 2008, 53, 509-516.	2.3	9

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73	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, 257-272.	2.1	9
74	Polyamines regulate phosphorylationâ€“dephosphorylation kinetics in a crustacean gill (Na ⁺ , K ⁺)-ATPase. <i>Journal of Membrane Biology</i> , 2017, 250, 517-534.	3.1	9
75	Isolation and kinetic properties of an alkaline phosphatase from rat bone matrix-induced cartilage. <i>Journal of Biochemistry and Biophysics</i> , 1986, 32, 55-62.		9
76	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, 923-928.	0.5	8
77	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.	3.0	8
78	Gill (Na ⁺ , K ⁺)-ATPase from the Amazon River shrimp, <i>Macrobrachium amazonicum</i> (Decapoda, Palaemonidae). <i>Hydrobiologia</i> , 2017, 789, 59-76.	2.0	8
79	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.	2.1	8
80	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.	1.6	8
81	Isolation and characterization of an active three-chain molecular species of bovine thrombin. <i>Biochemical Journal</i> , 1976, 159, 29-33.	3.7	7
82	Mechanism of action of cobalt ions on rat osseous plate alkaline phosphatase. <i>Journal of Inorganic Biochemistry</i> , 1995, 60, 155-162.	3.5	6
83	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, 431-437.	2.3	5
84	Pig prothrombin : Purification and properties. <i>Biochimie</i> , 1976, 58, 505-512.	2.6	4
85	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.	2.1	4
86	Effect of Zn(II) and Mg(II) on phosphohydrolytic activity of rat matrix-induced alkaline phosphatase. <i>Journal of Biochemistry and Biophysics</i> , 1989, 35, 503-10.		4
87	Kinetic characteristics of some inhibitors of matrix-induced alkaline phosphatase. <i>Journal of Biochemistry and Biophysics</i> , 1987, 33, 625-35.		4
88	Sheep prothrombin: Purification and partial characterization. <i>Biochimica Et Biophysica Acta (BBA) - Protein Structure</i> , 1976, 453, 410-417.	1.7	3
89	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.	0.3	2
90	Kinetic properties of mitochondrial ATPase during isoproterenol-induced cardiomyopathy. <i>International Journal of Biochemistry & Cell Biology</i> , 1990, 22, 611-615.	0.5	2

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91	Cation transport coupled to ATP hydrolysis by the (Na, K)-ATPase. Biochemistry and Molecular Biology Education, 2010, 38, 276-279.	1.2	2
92	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.	1.8	2
93	Kinetic properties of Triton X-100 solubilized bone matrix induced alkaline phosphatase. , 1988, 34, 553-62.		2
94	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.	4.0	2
95	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.	2.6	2
96	Sodium Chloride as a Replacement for Phosphate in Media for the Bacterial Production and Determination of Acetoin. Applied Microbiology, 1954, 2, 259-262.	0.6	1
97	Multiple active forms of sheep thrombin. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1980, 67, 57-62.	0.2	0
98	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.	3.1	0
99	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.	2.1	0
100	Open Data on Donation and Transplantation in Buenos Aires City. Transplantation, 2018, 102, S809.	1.0	0
101	Follow-Up on Donor Family. Transplantation, 2018, 102, S809.	1.0	0