# Francisco A Leone

List of Publications by Year
in descending order

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|---|---|---|---|
| 101 papers | 2,345 citations | 196777 29 h-index | 299063 42 g-index |
| 102 all docs | 102 docs citations | 102 times ranked | 1681 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A Biotinylated Conducting Polypyrrole for the Spatially Controlled Construction of an Amperometric Biosensor. Analytical Chemistry, 1999, 71, 3692-3697. | 3.2 | 116 |
| 2 | SigrafW: An easy-to-use program for fitting enzyme kinetic data. Biochemistry and Molecular Biology Education, 2005, 33, 399-403. | 0.5 | 99 |
| 3 | 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, 303-315. | 0.7 | 83 |
| 4 | A Bienzyme Electrode (Alkaline Phosphataseâ^'Polyphenol Oxidase) for the Amperometric Determination of Phosphate. Analytical Chemistry, 1998, 70, 3952-3956. | 3.2 | 73 |
| 5 | Purification and biochemical characterization of a mycelial glucose- and xylose-stimulated Î²-glucosidase from the thermophilic fungus Humicola insolens. Process Biochemistry, 2010, 45, 272-278. | 1.8 | 70 |
| 6 | Phosphodiesterase activity is a novel property of alkaline phosphatase from osseous plate. Biochemical Journal, 1994, 301, 517-522. | 1.7 | 65 |
| 7 | Effect of Molecular Surface Packing on the Enzymatic Activity Modulation of an Anchored Protein on Phospholipid Langmuir Monolayers. Langmuir, 2005, 21, 4090-4095. | 1.6 | 60 |
| 8 | Purification and biochemical properties of a glucose-stimulated Î²-D-glucosidase produced by Humicola grisea var. thermoidea grown on sugarcane bagasse. Journal of Microbiology, 2010, 48, 53-62. | 1.3 | 58 |
| 9 | Gill (Na+,K+)-ATPase in diadromous, freshwater palaemonid shrimps: Species-specific kinetic characteristics and Î±-subunit expression. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2007, 148, 178-188. | 0.8 | 55 |
| 10 | Modulation of gill Na+,K+-ATPase activity by ammonium ions: Putative coupling of nitrogen excretion and ion uptake in the freshwater shrimpMacrobrachium olfersii. The Journal of Experimental Zoology, 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. Molecular and Cellular Biochemistry, 1995, 152, 121-129. | 1.4 | 48 |
| 12 | Enzymatic activity of alkaline phosphatase adsorbed on dimyristoylphosphatidic acid Langmuirâ€“Blodgett films. Colloids and Surfaces B: Biointerfaces, 2002, 25, 119-128. | 2.5 | 48 |
| 13 | 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, 145-155. | 0.8 | 48 |
| 14 | 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, 431-439. | 0.8 | 47 |
| 15 | Effects of ammonia stress in the Amazon river shrimp Macrobrachium amazonicum (Decapoda,) Tj ETQq1 1 0.784314 rgBT /Overlock | 1.9 | 45 |
| 16 | Alkaline phosphatase from rat osseous plates: purification and biochemical characterization of a soluble form. Biochimica Et Biophysica Acta - General Subjects, 1991, 1074, 256-262. | 1.1 | 44 |
| 17 | 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. | 0.8 | 43 |
| 18 | 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, 141-148. | 0.8 | 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 Langmuirâ€“Blodgett films. Journal of Colloid and Interface Science, 2004, 275, 123-130. | 5.0 | 39 |
| 20 | 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, 17-19. | 1.7 | 37 |
| 21 | 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, 471-482. | 1.3 | 37 |
| 22 | Gill microsomal (Na+,K+)-ATPase from the blue crab Callinectes danae: Interactions at cationic sites. International Journal of Biochemistry and Cell Biology, 2005, 37, 2521-2535. | 1.2 | 36 |
| 23 | 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, 346-356. | 0.8 | 36 |
| 24 | Gill-specific (Na+, K+)-ATPase activity and Î±-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. | 0.7 | 36 |
| 25 | 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, 385-392. | 0.8 | 34 |
| 26 | 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. | 0.6 | 33 |
| 27 | Sigraf: A versatile computer program for fitting enzyme kinetic data. Biochemical Education, 1992, 20, 94-96. | 0.1 | 32 |
| 28 | Rat osseous plate alkaline phosphatase as Langmuir monolayerâ€”An infrared study at the airâ€“water interface. Journal of Colloid and Interface Science, 2008, 320, 476-482. | 5.0 | 31 |
| 29 | Molecular View of the Interaction between Î¹-Carrageenan and a Phospholipid Film and Its Role in Enzyme Immobilization. Journal of Physical Chemistry B, 2009, 113, 7491-7497. | 1.2 | 30 |
| 30 | Adsorption of detergent-solubilized and phospholipase C-solubilized alkaline phosphatase at air/liquid interfaces. Colloids and Surfaces B: Biointerfaces, 2003, 30, 273-282. | 2.5 | 28 |
| 31 | Influence of the glycosylphosphatidylinositol anchor in the morphology and roughness of Langmuirâ€“Blodgett films of phospholipids containing alkaline phosphatases. Thin Solid Films, 2007, 515, 4801-4807. | 0.8 | 28 |
| 32 | 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, 747-751. | 0.8 | 25 |
| 33 | Characterization and properties of acid phosphatases with phytase activity produced by Aspergillus caespitosus. Biotechnology and Applied Biochemistry, 2004, 40, 201. | 1.4 | 25 |
| 34 | Incorporation conditions guiding the aggregation of a glycosylphosphatidyl inositol (GPI)-anchored protein in Langmuir monolayers. Colloids and Surfaces B: Biointerfaces, 2005, 46, 248-254. | 2.5 | 25 |
| 35 | Long-term exposure of the freshwater shrimp Macrobrachium olfersii to elevated salinity: Effects on gill (Na+,K+)-ATPase Î±-subunit expression and K+-phosphatase activity. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2007, 146, 534-543. | 0.8 | 25 |
| 36 | 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, 2588-2597. | 1.4 | 25 |

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|---|---|---|---|
| 37 | Subcellular Localization and Kinetic Characterization of a Gill (Na+, K+)-ATPase from the Giant Freshwater Prawn Macrobrachium rosenbergii. Journal of Membrane Biology, 2013, 246, 529-543. | 1.0 | 24 |
| 38 | 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, 380-391. | 0.7 | 23 |
| 39 | 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, 201-215. | 1.0 | 23 |
| 40 | Properties of acid phosphatase from scutella of germinating maize seeds. Phytochemistry, 1981, 20, 1823-1826. | 1.4 | 22 |
| 41 | Allosteric modulation by ATP, calcium and magnesium ions of rat osseous plate alkaline phosphatase. BBA - Proteins and Proteomics, 1993, 1202, 22-28. | 2.1 | 20 |
| 42 | 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, 665-676. | 0.8 | 20 |
| 43 | 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, 631-640. | 0.7 | 20 |
| 44 | Inorganic pyrophosphate-phosphohydrolytic activity associated with rat osseous plate alkaline phosphatase. Cellular and Molecular Biology, 1998, 44, 293-302. | 0.3 | 20 |
| 45 | Conidial alkaline phosphatase from Neurospora crassa. Phytochemistry, 1996, 41, 71-75. | 1.4 | 19 |
| 46 | Short- and long-term salinity challenge, osmoregulatory ability, and (Na+, K+)-ATPase kinetics and Î±-subunit mRNA expression in the gills of the thinstripe hermit crab Clibanarius symmetricus (Anomura,) Tj ETQq0 0 0 rgBT /Overlock 10<br>2018, 225, 16-25. | 0.8 | 19 |
| 47 | Triton X-100 solubilized bone matrix-induced alkaline phosphatase. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1987, 87, 921-926. | 0.2 | 18 |
| 48 | Effect of calcium ions on rat osseous plate alkaline phosphatase activity. Journal of Inorganic Biochemistry, 1997, 68, 123-127. | 1.5 | 18 |
| 49 | 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. | 1.2 | 18 |
| 50 | Kinetic Characteristics of ATP Hydrolysis by a Detergent-Solubilized Alkaline Phosphatase From Rat Osseous Plate. IUBMB Life, 2000, 49, 113-119. | 1.5 | 18 |
| 51 | Na+,K+-ATPase Activity in the Posterior Gills of the Blue Crab, Callinectes ornatus (Decapoda,) Tj ETQq1 1 0.784314 rgBT /Overlock 10<br>Membrane Biology, 2011, 244, 9-20. | 1.0 | 18 |
| 52 | 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. | 1.1 | 18 |
| 53 | Kinetic characterization of a membrane-specific ATPase from rat osseous plate and its possible significance on endochondral ossification. Biochimica Et Biophysica Acta - Biomembranes, 1998, 1368, 108-114. | 1.4 | 17 |
| 54 | Phosphotransferase activity associated with rat osseous plate alkaline phosphatase: a possible role in biomineralization. International Journal of Biochemistry & Cell Biology, 1992, 24, 1391-1396. | 0.8 | 16 |

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|---|---|---|---|
| 55 | Osmotic and ionic regulation, and modulation by protein kinases, FXYD2 peptide and ATP of gill (Na+,) Tj ETQq1 1 0.784314 rgBT /Ov Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2020, 250, 110507. | 0.7 | 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. | 1.1 | 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. | 0.8 | 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. | 0.7 | 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 ?-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. | 1.4 | 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. | 0.7 | 13 |
| 64 | Extracellular alkaline phosphatase from the filamentous fungusAspergillus caespitosus: Purification and biochemical characterization. Folia Microbiologica, 2003, 48, 627-632. | 1.1 | 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. | 0.7 | 12 |
| 66 | Dependence of divalent metal ions on phosphotransferase activity of osseous plate alkaline phosphatase. Journal of Inorganic Biochemistry, 1997, 66, 51-55. | 1.5 | 11 |
| 67 | Low salinityâ€induced alterations in epithelial ultrastructure, Na<sup>+</sup>/K<sup>+</sup>â€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. | 0.9 | 11 |
| 68 | Rat osseous plate alkaline phosphatase: mechanism of action of manganese ions. BioMetals, 1995, 8, 86-91. | 1.8 | 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. | 1.4 | 10 |
| 70 | Kinetic properties of osseous plate alkaline phosphatase from diabetic rats. Comparative Biochemistry and Physiology A, Comparative Physiology, 1993, 104, 469-474. | 0.7 | 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. | 2.0 | 9 |
| 72 | Purification and biochemical characterization of thermostable alkaline phosphatases produced by Rhizopus microsporus var. rhizopodiformis. Folia Microbiologica, 2008, 53, 509-516. | 1.1 | 9 |

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|---|---|---|---|
| 73 | 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, 257-272. | 1.0 | 9 |
| 74 | Polyamines regulate phosphorylationâ€“dephosphorylation kinetics in a crustacean gill (Na+,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 | 1.4 | 9 |
| 75 | Isolation and kinetic properties of an alkaline phosphatase from rat bone matrix-induced cartilage. , 1986, 32, 55-62. | | 9 |
| 76 | Effect of ph on the modulation of rat osseous plate alkaline phosphatase by metal ions. International Journal of Biochemistry & Cell Biology, 1992, 24, 923-928. | 0.8 | 8 |
| 77 | 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. | 1.4 | 8 |
| 78 | Gill (Na+, K+)-ATPase from the Amazon River shrimp, Macrobrachium amazonicum (Decapoda,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54 Hydrobiologia, 2017, 789, 59-76. | 1.0 | 8 |
| 79 | 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. | 1.0 | 8 |
| 80 | 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. | 0.7 | 8 |
| 81 | Isolation and characterization of an active three-chain molecular species of bovine thrombin. Biochemical Journal, 1976, 159, 29-33. | 1.7 | 7 |
| 82 | Mechanism of action of cobalt ions on rat osseous plate alkaline phosphatase. Journal of Inorganic Biochemistry, 1995, 60, 155-162. | 1.5 | 6 |
| 83 | Structural and kinetic alterations of constitutive conidial alkaline phosphatase from the osmotically-sensitive mutant ofNeurospora crassa. Folia Microbiologica, 2006, 51, 431-437. | 1.1 | 5 |
| 84 | Pig prothrombin : Purification and properties. Biochimie, 1976, 58, 505-512. | 1.3 | 4 |
| 85 | 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. | 1.0 | 4 |
| 86 | Effect of Zn(II) and Mg(II) on phosphohydrolytic activity of rat matrix-induced alkaline phosphatase. , 1989, 35, 503-10. | | 4 |
| 87 | Kinetic characteristics of some inhibitors of matrix-induced alkaline phosphatase. , 1987, 33, 625-35. | | 4 |
| 88 | Sheep prothrombin: Purification and partial characterization. Biochimica Et Biophysica Acta (BBA) - Protein Structure, 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. Plant/Operations Progress, 1990, 9, 226-230. | 0.3 | 2 |
| 90 | Kinetic properties of mitochondrial ATPase during isoproterenol-induced cardiomyopathy. International Journal of Biochemistry & Cell Biology, 1990, 22, 611-615. | 0.8 | 2 |

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|---|---|---|---|
| 91 | Cation transport coupled to ATP hydrolysis by the (Na, K)â€ATPase. Biochemistry and Molecular Biology Education, 2010, 38, 276-279. | 0.5 | 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. | 0.8 | 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. | 1.9 | 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. | 1.4 | 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. | 1.4 | 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. | 1.0 | 0 |
| 100 | Open Data on Donation and Transplantation in Buenos Aires City. Transplantation, 2018, 102, S809. | 0.5 | 0 |
| 101 | Follow-Up on Donor Family. Transplantation, 2018, 102, S809. | 0.5 | 0 |