Jesus Tejero

List of Publications by Year
in descending order

		172457	118850
79	4,072	29	62
papers	citations	h-index	g-index

102	102	102	4770
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Regulation of nitrite reductase and lipid binding properties of cytoglobin by surface and distal histidine mutations. Nitric Oxide - Biology and Chemistry, 2022, 125-126, 12-22.	2.7	3
2	Liver-to-lung microembolic NETs promote gasdermin Dâ€“dependent inflammatory lung injury in sickle cell disease. Blood, 2022, 140, 1020-1037.	1.4	32
3	Redox sensor properties of human cytoglobin allosterically regulate heme pocket reactivity. Free Radical Biology and Medicine, 2021, 162, 423-434.	2.9	8
4	P-selectin deficiency promotes liver senescence in sickle cell disease mice. Blood, 2021, 137, 2676-2680.	1.4	13
5	Mechanistic insights into cell-free hemoglobin-induced injury during septic shock. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 320, H2385-H2400.	3.2	9
6	Endogenous Hemoprotein-Dependent Signaling Pathways of Nitric Oxide and Nitrite. Inorganic Chemistry, 2021, 60, 15918-15940.	4.0	16
7	Stressed erythrophagocytosis induces immunosuppression during sepsis through heme-mediated STAT1 dysregulation. Journal of Clinical Investigation, 2021, 131, .	8.2	31
8	Hemoglobin Variants Influence Plasmodium Falciparum Sexual Differentiation. Blood, 2021, 138, 965-965.	1.4	4
9	Carbonic anhydrase II does not regulate nitriteâ€dependent nitric oxide formation and vasodilation. British Journal of Pharmacology, 2020, 177, 898-911.	5.4	10
10	Nitrite Improves Heart Regeneration in Zebrafish. Antioxidants and Redox Signaling, 2020, 32, 363-377.	5.4	12
11	A neuroglobin-based high-affinity ligand trap reverses carbon monoxideâ€“induced mitochondrial poisoning. Journal of Biological Chemistry, 2020, 295, 6357-6371.	3.4	22
12	Negative surface charges in neuroglobin modulate the interaction with cytochrome c. Biochemical and Biophysical Research Communications, 2020, 523, 567-572.	2.1	12
13	Tandem P-selectin glycoprotein ligand immunoglobulin prevents lung vaso-occlusion in sickle cell disease mice. Experimental Hematology, 2020, 84, 1-6.e1.	0.4	5
14	No evidence of hemoglobin damage by SARS-CoV-2 infection. Haematologica, 2020, 105, 2769-2773.	3.5	31
15	The Zebrafish Cytochrome <i>b</i>₅/Cytochrome <i>b</i>₅ Reductase/NADH System Efficiently Reduces Cytoglobins 1 and 2: Conserved Activity of Cytochrome <i>b</i>₅/Cytochrome <i>b</i>₅ Reductases during Vertebrate Evolution. Biochemistry, 2019, 58, 3212-3223.	2.5	12
16	Mechanism and regulation of ferrous heme-nitric oxide (NO) oxidation in NO synthases. Journal of Biological Chemistry, 2019, 294, 7904-7916.	3.4	21
17	Sources of Vascular Nitric Oxide and Reactive Oxygen Species and Their Regulation. Physiological Reviews, 2019, 99, 311-379.	28.8	323
18	A cross-domain charge interaction governs the activity of NO synthase. Journal of Biological Chemistry, 2018, 293, 4545-4554.	3.4	13

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19	Nitrosyl Myoglobins and Their Nitrite Precursors: Crystal Structural and Quantum Mechanics and Molecular Mechanics Theoretical Investigations of Preferred Fe<i>â€“</i>NO Ligand Orientations in Myoglobin Distal Pockets. Biochemistry, 2018, 57, 4788-4802.	2.5	14
20	Thrombospondin-1 protects against pathogen-induced lung injury by limiting extracellular matrix proteolysis. JCI Insight, 2018, 3, .	5.0	36
21	Hemoglobin Inhibits Uptake of Filtered Proteins by Proximal Tubule Cells: Implications for Sickle Cell Disease and Vitamin D Status. FASEB Journal, 2018, 32, 849.13.	0.5	0
22	Tandem P-Selectin Glycoprotein Ligand Immunoglobulin Prevents Lung Vaso-Occlusion in SCD Mice. Blood, 2018, 132, 2364-2364.	1.4	0
23	Reply: Better Studies Are Needed to Guide Treatment of Carbon Monoxide Poisoning. American Journal of Respiratory and Critical Care Medicine, 2017, 195, 694-695.	5.6	1
24	Hemoglobin inhibits albumin uptake by proximal tubule cells: implications for sickle cell disease. American Journal of Physiology - Cell Physiology, 2017, 312, C733-C740.	4.6	25
25	Cytoglobin at the Crossroads of Vascular Remodeling. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 1803-1805.	2.4	4
26	Efficient Reduction of Vertebrate Cytoglobins by the Cytochrome <i>b</i>₅/Cytochrome <i>b</i>₅ Reductase/NADH System. Biochemistry, 2017, 56, 3993-4004.	2.5	42
27	Carbon Monoxide Poisoning: Pathogenesis, Management, and Future Directions of Therapy. American Journal of Respiratory and Critical Care Medicine, 2017, 195, 596-606.	5.6	446
28	Nitrite improves Zebrafish Cardiac Regeneration Potentially by Cytoglobin 1. Free Radical Biology and Medicine, 2017, 112, 122.	2.9	0
29	Reply: Carbon Monoxide Exposure in Workplaces, Including Coffee Processing Facilities. American Journal of Respiratory and Critical Care Medicine, 2017, 196, 1081-1082.	5.6	1
30	Five-coordinate H64Q neuroglobin as a ligand-trap antidote for carbon monoxide poisoning. Science Translational Medicine, 2016, 8, 368ra173.	12.4	50
31	Peroxidase activation of cytoglobin by anionic phospholipids: Mechanisms and consequences. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2016, 1861, 391-401.	2.4	30
32	Globin X is a six-coordinate globin that reduces nitrite to nitric oxide in fish red blood cells. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8538-8543.	7.1	44
33	Characterization of zebrafish neuroglobin and cytoglobins 1 and 2: Zebrafish cytoglobins provide insights into the transition from six-coordinate to five-coordinate globins. Nitric Oxide - Biology and Chemistry, 2016, 53, 22-34.	2.7	36
34	Inorganic nitrite improves components of the metabolic syndrome independent of weight change in a murine model of obesity and insulin resistance. Journal of Physiology, 2015, 593, 3135-3145.	2.9	18
35	Ebulin from Dwarf Elder (Sambucus ebulus L.): A Mini-Review. Toxins, 2015, 7, 648-658.	3.4	27
36	Exploring the Mechanisms of the Reductase Activity of Neuroglobin by Site-Directed Mutagenesis of the Heme Distal Pocket. Biochemistry, 2015, 54, 722-733.	2.5	55

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37	Toxicity of the Anti-ribosomal Lectin Ebulin f in Lungs and Intestines in Elderly Mice. Toxins, 2015, 7, 367-379.	3.4	13
38	Sulfite Oxidase Catalyzes Single-Electron Transfer at Molybdenum Domain to Reduce Nitrite to Nitric Oxide. Antioxidants and Redox Signaling, 2015, 23, 283-294.	5.4	68
39	The globin superfamily: functions in nitric oxide formation and decay. Biological Chemistry, 2014, 395, 631-639.	2.5	51
40	Nitrite Reductase and Nitric-oxide Synthase Activity of the Mitochondrial Molybdopterin Enzymes mARC1 and mARC2. Journal of Biological Chemistry, 2014, 289, 10345-10358.	3.4	136
41	Distinct conformational behaviors of four mammalian dualâ€flavin reductases (cytochrome P450) Tj ETQq1 1 0.784314 rgBT /Overlock	4.7	26
42	Paneth cells are also target of the ribotoxic lectin nigrin b. Histology and Histopathology, 2014, 29, 1057-63.	0.7	6
43	Mechanisms for cellular NO oxidation and nitrite formation in lung epithelial cells. Free Radical Biology and Medicine, 2013, 61, 428-437.	2.9	17
44	Evidence mounts that red cells and deoxyhemoglobin can reduce nitrite to bioactive NO to mediate intravascular endocrine NO signaling: commentary on â€œAnti-platelet effects of dietary nitrate in healthy volunteers: involvement of cGMP and influence of sexâ€. Free Radical Biology and Medicine, 2013, 65, 1518-1520.	2.9	11
45	Tetrahydrobiopterin in nitric oxide synthase. IUBMB Life, 2013, 65, 358-365.	3.4	60
46	Direct sGC Activation Bypasses NO Scavenging Reactions of Intravascular Free Oxy-Hemoglobin and Limits Vasoconstriction. Antioxidants and Redox Signaling, 2013, 19, 2232-2243.	5.4	26
47	Thermodynamic characterization of five key kinetic parameters that define neuronal nitric oxide synthase catalysis. FEBS Journal, 2013, 280, 4439-4453.	4.7	19
48	Nitrite Reductase Activity of Nonsymbiotic Hemoglobins from <i>Arabidopsis thaliana</i>. Biochemistry, 2012, 51, 5285-5292.	2.5	62
49	Low NO Concentration Dependence of Reductive Nitrosylation Reaction of Hemoglobin. Journal of Biological Chemistry, 2012, 287, 18262-18274.	3.4	38
50	Arg375 tunes tetrahydrobiopterin functions and modulates catalysis by inducible nitric oxide synthase. Journal of Inorganic Biochemistry, 2012, 108, 203-215.	3.5	10
51	Human Neuroglobin Functions as a Redox-regulated Nitrite Reductase. Journal of Biological Chemistry, 2011, 286, 18277-18289.	3.4	245
52	Nitrite-NO bailout for a NOS complex too big to fail. Nature Medicine, 2011, 17, 1556-1557.	30.7	6
53	Nitric Oxide Scavenging By Red Cell Microparticles And Cell Free Hemoglobin As A Mechanism For The Red Cell Storage Lesion. , 2011, , .		0
54	Mesohaem substitution reveals how haem electronic properties can influence the kinetic and catalytic parameters of neuronal NO synthase. Biochemical Journal, 2011, 433, 163-174.	3.7	9

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55	A kinetic model linking protein conformational motions, interflavin electron transfer and electron flux through a dualâ€flavin enzymeâ€ƒâ€"â€ƒsimulating the reductase activity of the endothelial and neuronal nitric oxide synthase flavoprotein domains. FEBS Journal, 2011, 278, 4055-4069.	4.7	17
56	Sulfite Oxidase: A Novel Nitrite Reductase that Generates Nitric Oxide. Free Radical Biology and Medicine, 2011, 51, S164.	2.9	0
57	14-3-3 Binding and Phosphorylation of Neuroglobin during Hypoxia Modulate Six-to-Five Heme Pocket Coordination and Rate of Nitrite Reduction to Nitric Oxide. Journal of Biological Chemistry, 2011, 286, 42679-42689.	3.4	69
58	Influence of Heme-Thiolate in Shaping the Catalytic Properties of a Bacterial Nitric-oxide Synthase. Journal of Biological Chemistry, 2011, 286, 39224-39235.	3.4	21
59	Nitric Oxide Scavenging by Red Blood Cell Microparticles and Cell-Free Hemoglobin as a Mechanism for the Red Cell Storage Lesion. Circulation, 2011, 124, 465-476.	1.6	674
60	HUMAN NEUROGLOBIN FUNCTIONS AS A REDOX REGULATED NITRITE REDUCTASE. FASEB Journal, 2011, 25, .	0.5	2
61	Evidence for S-nitrosothiol Formation by a Nitrite Dependent Pathway During Reductive Nitrosylation of Ferric Hemoglobin. Free Radical Biology and Medicine, 2010, 49, S108.	2.9	0
62	Surface Charges and Regulation of FMN to Heme Electron Transfer in Nitric-oxide Synthase. Journal of Biological Chemistry, 2010, 285, 27232-27240.	3.4	41
63	A Bridging Interaction Allows Calmodulin to Activate NO Synthase through a Bi-modal Mechanism. Journal of Biological Chemistry, 2010, 285, 25941-25949.	3.4	29
64	Structural and mechanistic aspects of flavoproteins: electron transfer through the nitric oxide synthase flavoprotein domain. FEBS Journal, 2009, 276, 3959-3974.	4.7	104
65	Fast ferrous hemeâ€"NO oxidation in nitric oxide synthases. FEBS Journal, 2009, 276, 4505-4514.	4.7	25
66	Regulation of FMN Subdomain Interactions and Function in Neuronal Nitric Oxide Synthase. Biochemistry, 2009, 48, 3864-3876.	2.5	48
67	Catalytic Reduction of a Tetrahydrobiopterin Radical within Nitric-oxide Synthase. Journal of Biological Chemistry, 2008, 283, 11734-11742.	3.4	67
68	Stabilization and Characterization of a Heme-Oxy Reaction Intermediate in Inducible Nitric-oxide Synthase. Journal of Biological Chemistry, 2008, 283, 33498-33507.	3.4	46
69	Higher blood flow and circulating NO products offset high-altitude hypoxia among Tibetans. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 17593-17598.	7.1	299
70	Catalytic mechanism of hydride transfer between NADP+/H and ferredoxin-NADP+ reductase from Anabaena PCC 7119. Archives of Biochemistry and Biophysics, 2007, 459, 79-90.	3.0	41
71	A connecting hinge represses the activity of endothelial nitric oxide synthase. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 9254-9259.	7.1	59
72	Versatile Regulation of Neuronal Nitric Oxide Synthase by Specific Regions of Its C-Terminal Tail. Biochemistry, 2007, 46, 14418-14428.	2.5	30

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73	Oxygenase Domain of <i>Drosophila melanogaster</i> Nitric Oxide Synthase:â€‰ Unique Kinetic Parameters Enable a More Efficient NO Release. Biochemistry, 2007, 46, 11857-11864.	2.5	9
74	Point Mutations in Protein Globular Domains: Contributions from Function, Stability and Misfolding. Journal of Molecular Biology, 2006, 363, 422-432.	4.2	42
75	Towards a new interaction enzyme:coenzyme. Biophysical Chemistry, 2005, 115, 219-224.	2.8	8
76	C-Terminal Tyrosine of Ferredoxinâˆ’NADP+ Reductase in Hydride Transfer Processes with NAD(P)+/H. Biochemistry, 2005, 44, 13477-13490.	2.5	51
77	Role of the C-Terminal Tyrosine of Ferredoxin-Nicotinamide Adenine Dinucleotide Phosphate Reductase in the Electron Transfer Processes with Its Protein Partners Ferredoxin and Flavodoxinâ€. Biochemistry, 2004, 43, 6127-6137.	2.5	72
78	Involvement of the Pyrophosphate and the 2â€²-Phosphate Binding Regions of Ferredoxin-NADP+ Reductase in Coenzyme Specificity. Journal of Biological Chemistry, 2003, 278, 49203-49214.	3.4	34
79	Probing the Determinants of Coenzyme Specificity in Ferredoxin-NADP+ Reductase by Site-directed Mutagenesis. Journal of Biological Chemistry, 2001, 276, 11902-11912.	3.4	54