Jesus Tejero

List of Publications by Year
in descending order

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Version: 2024-02-01

79 papers	4,072 citations	172457 29 h-index	118850 62 g-index
102 all docs	102 docs citations	102 times ranked	4770 citing authors

#	Article	IF	Citations
1	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
2	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
3	Sources of Vascular Nitric Oxide and Reactive Oxygen Species and Their Regulation. Physiological Reviews, 2019, 99, 311-379.	28.8	323
4	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
5	Human Neuroglobin Functions as a Redox-regulated Nitrite Reductase. Journal of Biological Chemistry, 2011, 286, 18277-18289.	3.4	245
6	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
7	Structural and mechanistic aspects of flavoproteins: electron transfer through the nitric oxide synthase flavoprotein domain. FEBS Journal, 2009, 276, 3959-3974.	4.7	104
8	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
9	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
10	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
11	Catalytic Reduction of a Tetrahydrobiopterin Radical within Nitric-oxide Synthase. Journal of Biological Chemistry, 2008, 283, 11734-11742.	3.4	67
12	Nitrite Reductase Activity of Nonsymbiotic Hemoglobins from Arabidopsis thaliana. Biochemistry, 2012, 51, 5285-5292.	2.5	62
13	Tetrahydrobiopterin in nitric oxide synthase. IUBMB Life, 2013, 65, 358-365.	3.4	60
14	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
15	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
16	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
17	C-Terminal Tyrosine of Ferredoxinâ˜NADP+ Reductase in Hydride Transfer Processes with NAD(P)+/H. Biochemistry, 2005, 44, 13477-13490.	2.5	51
18	The globin superfamily: functions in nitric oxide formation and decay. Biological Chemistry, 2014, 395, 631-639.	2.5	51

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19	Five-coordinate H64Q neuroglobin as a ligand-trap antidote for carbon monoxide poisoning. Science Translational Medicine, 2016, 8, 368ra173.	12.4	50
20	Regulation of FMN Subdomain Interactions and Function in Neuronal Nitric Oxide Synthase. Biochemistry, 2009, 48, 3864-3876.	2.5	48
21	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
22	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
23	Point Mutations in Protein Globular Domains: Contributions from Function, Stability and Misfolding. Journal of Molecular Biology, 2006, 363, 422-432.	4.2	42
24	Efficient Reduction of Vertebrate Cytoglobins by the Cytochrome b₅/Cytochrome b₅ Reductase/NADH System. Biochemistry, 2017, 56, 3993-4004.	2.5	42
25	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
26	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
27	Low NO Concentration Dependence of Reductive Nitrosylation Reaction of Hemoglobin. Journal of Biological Chemistry, 2012, 287, 18262-18274.	3.4	38
28	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
29	Thrombospondin-1 protects against pathogen-induced lung injury by limiting extracellular matrix proteolysis. JCI Insight, 2018, 3, .	5.0	36
30	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
31	Liver-to-lung microembolic NETs promote gasdermin Dâ€“dependent inflammatory lung injury in sickle cell disease. Blood, 2022, 140, 1020-1037.	1.4	32
32	Stressed erythrophagocytosis induces immunosuppression during sepsis through heme-mediated STAT1 dysregulation. Journal of Clinical Investigation, 2021, 131, .	8.2	31
33	No evidence of hemoglobin damage by SARS-CoV-2 infection. Haematologica, 2020, 105, 2769-2773.	3.5	31
34	Versatile Regulation of Neuronal Nitric Oxide Synthase by Specific Regions of Its C-Terminal Tail. Biochemistry, 2007, 46, 14418-14428.	2.5	30
35	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
36	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

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37	Ebulin from Dwarf Elder (Sambucus ebulus L.): A Mini-Review. Toxins, 2015, 7, 648-658.	3.4	27
38	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
39	Distinct conformational behaviors of four mammalian dualâ€flavin reductases (cytochrome P450) Tj ETQq1 1 0.784314 rgBT /Overloc	4.7	26
40	Fast ferrous hemeâ€“NO oxidation in nitric oxide synthases. FEBS Journal, 2009, 276, 4505-4514.	4.7	25
41	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
42	A neuroglobin-based high-affinity ligand trap reverses carbon monoxideâ€“induced mitochondrial poisoning. Journal of Biological Chemistry, 2020, 295, 6357-6371.	3.4	22
43	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
44	Mechanism and regulation of ferrous heme-nitric oxide (NO) oxidation in NO synthases. Journal of Biological Chemistry, 2019, 294, 7904-7916.	3.4	21
45	Thermodynamic characterization of five key kinetic parameters that define neuronal nitric oxide synthase catalysis. FEBS Journal, 2013, 280, 4439-4453.	4.7	19
46	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
47	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
48	Mechanisms for cellular NO oxidation and nitrite formation in lung epithelial cells. Free Radical Biology and Medicine, 2013, 61, 428-437.	2.9	17
49	Endogenous Hemoprotein-Dependent Signaling Pathways of Nitric Oxide and Nitrite. Inorganic Chemistry, 2021, 60, 15918-15940.	4.0	16
50	Nitrosyl Myoglobins and Their Nitrite Precursors: Crystal Structural and Quantum Mechanics and Molecular Mechanics Theoretical Investigations of Preferred Feâ€“NO Ligand Orientations in Myoglobin Distal Pockets. Biochemistry, 2018, 57, 4788-4802.	2.5	14
51	Toxicity of the Anti-ribosomal Lectin Ebulin f in Lungs and Intestines in Elderly Mice. Toxins, 2015, 7, 367-379.	3.4	13
52	A cross-domain charge interaction governs the activity of NO synthase. Journal of Biological Chemistry, 2018, 293, 4545-4554.	3.4	13
53	P-selectin deficiency promotes liver senescence in sickle cell disease mice. Blood, 2021, 137, 2676-2680.	1.4	13
54	The Zebrafish Cytochrome b₅/Cytochrome b₅ Reductase/NADH System Efficiently Reduces Cytoglobins 1 and 2: Conserved Activity of Cytochrome b₅/Cytochrome b₅ Reductases during Vertebrate Evolution. Biochemistry, 2019, 58, 3212-3223.	2.5	12

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55	Nitrite Improves Heart Regeneration in Zebrafish. Antioxidants and Redox Signaling, 2020, 32, 363-377.	5.4	12
56	Negative surface charges in neuroglobin modulate the interaction with cytochrome c. Biochemical and Biophysical Research Communications, 2020, 523, 567-572.	2.1	12
57	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
58	Arg375 tunes tetrahydrobiopterin functions and modulates catalysis by inducible nitric oxide synthase. Journal of Inorganic Biochemistry, 2012, 108, 203-215.	3.5	10
59	Carbonic anhydrase II does not regulate nitriteâ€dependent nitric oxide formation and vasodilation. British Journal of Pharmacology, 2020, 177, 898-911.	5.4	10
60	Oxygenase Domain of Drosophila melanogaster Nitric Oxide Synthase:â€‰ Unique Kinetic Parameters Enable a More Efficient NO Release. Biochemistry, 2007, 46, 11857-11864.	2.5	9
61	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
62	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
63	Towards a new interaction enzyme:coenzyme. Biophysical Chemistry, 2005, 115, 219-224.	2.8	8
64	Redox sensor properties of human cytoglobin allosterically regulate heme pocket reactivity. Free Radical Biology and Medicine, 2021, 162, 423-434.	2.9	8
65	Nitrite-NO bailout for a NOS complex too big to fail. Nature Medicine, 2011, 17, 1556-1557.	30.7	6
66	Paneth cells are also target of the ribotoxic lectin nigrin b. Histology and Histopathology, 2014, 29, 1057-63.	0.7	6
67	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
68	Cytoglobin at the Crossroads of Vascular Remodeling. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 1803-1805.	2.4	4
69	Hemoglobin Variants Influence Plasmodium Falciparum Sexual Differentiation. Blood, 2021, 138, 965-965.	1.4	4
70	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
71	HUMAN NEUROGLOBIN FUNCTIONS AS A REDOX REGULATED NITRITE REDUCTASE. FASEB Journal, 2011, 25, .	0.5	2
72	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

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73	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
74	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
75	Nitric Oxide Scavenging By Red Cell Microparticles And Cell Free Hemoglobin As A Mechanism For The Red Cell Storage Lesion. , 2011, , .		0
76	Sulfite Oxidase: A Novel Nitrite Reductase that Generates Nitric Oxide. Free Radical Biology and Medicine, 2011, 51, S164.	2.9	0
77	Nitrite improves Zebrafish Cardiac Regeneration Potentially by Cytoglobin 1. Free Radical Biology and Medicine, 2017, 112, 122.	2.9	0
78	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
79	Tandem P-Selectin Glycoprotein Ligand Immunoglobulin Prevents Lung Vaso-Occlusion in SCD Mice. Blood, 2018, 132, 2364-2364.	1.4	0