

Jesus Tejero

List of Publications by Year in descending order

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79
papers

4,072
citations

172386

29
h-index

118793

62
g-index

102
all docs

102
docs citations

102
times ranked

4770
citing authors

#	ARTICLE	IF	CITATIONS
1	Regulation of nitrite reductase and lipid binding properties of cytoglobin by surface and distal histidine mutations. <i>Nitric Oxide - Biology and Chemistry</i> , 2022, 125-126, 12-22.	1.2	3
2	Liver-to-lung microembolic NETs promote gasdermin D α -dependent inflammatory lung injury in sickle cell disease. <i>Blood</i> , 2022, 140, 1020-1037.	0.6	32
3	Redox sensor properties of human cytoglobin allosterically regulate heme pocket reactivity. <i>Free Radical Biology and Medicine</i> , 2021, 162, 423-434.	1.3	8
4	P-selectin deficiency promotes liver senescence in sickle cell disease mice. <i>Blood</i> , 2021, 137, 2676-2680.	0.6	13
5	Mechanistic insights into cell-free hemoglobin-induced injury during septic shock. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 320, H2385-H2400.	1.5	9
6	Endogenous Hemoprotein-Dependent Signaling Pathways of Nitric Oxide and Nitrite. <i>Inorganic Chemistry</i> , 2021, 60, 15918-15940.	1.9	16
7	Stressed erythrophagocytosis induces immunosuppression during sepsis through heme-mediated STAT1 dysregulation. <i>Journal of Clinical Investigation</i> , 2021, 131, .	3.9	31
8	Hemoglobin Variants Influence Plasmodium Falciparum Sexual Differentiation. <i>Blood</i> , 2021, 138, 965-965.	0.6	4
9	Carbonic anhydrase II does not regulate nitrite α -dependent nitric oxide formation and vasodilation. <i>British Journal of Pharmacology</i> , 2020, 177, 898-911.	2.7	10
10	Nitrite Improves Heart Regeneration in Zebrafish. <i>Antioxidants and Redox Signaling</i> , 2020, 32, 363-377.	2.5	12
11	A neuroglobin-based high-affinity ligand trap reverses carbon monoxide α -induced mitochondrial poisoning. <i>Journal of Biological Chemistry</i> , 2020, 295, 6357-6371.	1.6	22
12	Negative surface charges in neuroglobin modulate the interaction with cytochrome c. <i>Biochemical and Biophysical Research Communications</i> , 2020, 523, 567-572.	1.0	12
13	Tandem P-selectin glycoprotein ligand immunoglobulin prevents lung vaso-occlusion in sickle cell disease mice. <i>Experimental Hematology</i> , 2020, 84, 1-6.e1.	0.2	5
14	No evidence of hemoglobin damage by SARS-CoV-2 infection. <i>Haematologica</i> , 2020, 105, 2769-2773.	1.7	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. <i>Biochemistry</i> , 2019, 58, 3212-3223.	1.2	12
16	Mechanism and regulation of ferrous heme-nitric oxide (NO) oxidation in NO synthases. <i>Journal of Biological Chemistry</i> , 2019, 294, 7904-7916.	1.6	21
17	Sources of Vascular Nitric Oxide and Reactive Oxygen Species and Their Regulation. <i>Physiological Reviews</i> , 2019, 99, 311-379.	13.1	323
18	A cross-domain charge interaction governs the activity of NO synthase. <i>Journal of Biological Chemistry</i> , 2018, 293, 4545-4554.	1.6	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. <i>Biochemistry</i> , 2018, 57, 4788-4802.	1.2	14
20	Thrombospondin-1 protects against pathogen-induced lung injury by limiting extracellular matrix proteolysis. <i>JCI Insight</i> , 2018, 3, .	2.3	36
21	Hemoglobin Inhibits Uptake of Filtered Proteins by Proximal Tubule Cells: Implications for Sickle Cell Disease and Vitamin D Status. <i>FASEB Journal</i> , 2018, 32, 849.13.	0.2	0
22	Tandem P-Selectin Glycoprotein Ligand Immunoglobulin Prevents Lung Vaso-Occlusion in SCD Mice. <i>Blood</i> , 2018, 132, 2364-2364.	0.6	0
23	Reply: Better Studies Are Needed to Guide Treatment of Carbon Monoxide Poisoning. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2017, 195, 694-695.	2.5	1
24	Hemoglobin inhibits albumin uptake by proximal tubule cells: implications for sickle cell disease. <i>American Journal of Physiology - Cell Physiology</i> , 2017, 312, C733-C740.	2.1	25
25	Cytoglobin at the Crossroads of Vascular Remodeling. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 1803-1805.	1.1	4
26	Efficient Reduction of Vertebrate Cytoglobins by the Cytochrome <i>b</i>₅/Cytochrome <i>b</i>₅ Reductase/NADH System. <i>Biochemistry</i> , 2017, 56, 3993-4004.	1.2	42
27	Carbon Monoxide Poisoning: Pathogenesis, Management, and Future Directions of Therapy. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2017, 195, 596-606.	2.5	446
28	Nitrite improves Zebrafish Cardiac Regeneration Potentially by Cytoglobin 1. <i>Free Radical Biology and Medicine</i> , 2017, 112, 122.	1.3	0
29	Reply: Carbon Monoxide Exposure in Workplaces, Including Coffee Processing Facilities. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2017, 196, 1081-1082.	2.5	1
30	Five-coordinate H64Q neuroglobin as a ligand-trap antidote for carbon monoxide poisoning. <i>Science Translational Medicine</i> , 2016, 8, 368ra173.	5.8	50
31	Peroxidase activation of cytoglobin by anionic phospholipids: Mechanisms and consequences. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016, 1861, 391-401.	1.2	30
32	Globin X is a six-coordinate globin that reduces nitrite to nitric oxide in fish red blood cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 8538-8543.	3.3	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. <i>Nitric Oxide - Biology and Chemistry</i> , 2016, 53, 22-34.	1.2	36
34	Inorganic nitrite improves components of the metabolic syndrome independent of weight change in a murine model of obesity and insulin resistance. <i>Journal of Physiology</i> , 2015, 593, 3135-3145.	1.3	18
35	Ebulin from Dwarf Elder (<i>Sambucus ebulus</i> L.): A Mini-Review. <i>Toxins</i> , 2015, 7, 648-658.	1.5	27
36	Exploring the Mechanisms of the Reductase Activity of Neuroglobin by Site-Directed Mutagenesis of the Heme Distal Pocket. <i>Biochemistry</i> , 2015, 54, 722-733.	1.2	55

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37	Toxicity of the Anti-ribosomal Lectin Ebulin f in Lungs and Intestines in Elderly Mice. <i>Toxins</i> , 2015, 7, 367-379.	1.5	13
38	Sulfite Oxidase Catalyzes Single-Electron Transfer at Molybdenum Domain to Reduce Nitrite to Nitric Oxide. <i>Antioxidants and Redox Signaling</i> , 2015, 23, 283-294.	2.5	68
39	The globin superfamily: functions in nitric oxide formation and decay. <i>Biological Chemistry</i> , 2014, 395, 631-639.	1.2	51
40	Nitrite Reductase and Nitric-oxide Synthase Activity of the Mitochondrial Molybdopterin Enzymes mARC1 and mARC2. <i>Journal of Biological Chemistry</i> , 2014, 289, 10345-10358.	1.6	136
41	Distinct conformational behaviors of four mammalian dual-flavin reductases (cytochrome P450 Tj ETQq1 1 0.784314 rgBT /Overload	2.2	26
42	Paneth cells are also target of the ribotoxic lectin nigrin b. <i>Histology and Histopathology</i> , 2014, 29, 1057-63.	0.5	6
43	Mechanisms for cellular NO oxidation and nitrite formation in lung epithelial cells. <i>Free Radical Biology and Medicine</i> , 2013, 61, 428-437.	1.3	17
44	Evidence mounts that red cells and deoxyhemoglobin can reduce nitrite to bioactive NO to mediate intravascular endocrine NO signaling: commentary on "Anti-platelet effects of dietary nitrate in healthy volunteers: involvement of cGMP and influence of sex". <i>Free Radical Biology and Medicine</i> , 2013, 65, 1518-1520.	1.3	11
45	Tetrahydrobiopterin in nitric oxide synthase. <i>IUBMB Life</i> , 2013, 65, 358-365.	1.5	60
46	Direct sGC Activation Bypasses NO Scavenging Reactions of Intravascular Free Oxy-Hemoglobin and Limits Vasoconstriction. <i>Antioxidants and Redox Signaling</i> , 2013, 19, 2232-2243.	2.5	26
47	Thermodynamic characterization of five key kinetic parameters that define neuronal nitric oxide synthase catalysis. <i>FEBS Journal</i> , 2013, 280, 4439-4453.	2.2	19
48	Nitrite Reductase Activity of Nonsymbiotic Hemoglobins from <i>Arabidopsis thaliana</i> . <i>Biochemistry</i> , 2012, 51, 5285-5292.	1.2	62
49	Low NO Concentration Dependence of Reductive Nitrosylation Reaction of Hemoglobin. <i>Journal of Biological Chemistry</i> , 2012, 287, 18262-18274.	1.6	38
50	Arg375 tunes tetrahydrobiopterin functions and modulates catalysis by inducible nitric oxide synthase. <i>Journal of Inorganic Biochemistry</i> , 2012, 108, 203-215.	1.5	10
51	Human Neuroglobin Functions as a Redox-regulated Nitrite Reductase. <i>Journal of Biological Chemistry</i> , 2011, 286, 18277-18289.	1.6	245
52	Nitrite-NO bailout for a NOS complex too big to fail. <i>Nature Medicine</i> , 2011, 17, 1556-1557.	15.2	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	Meso-haem substitution reveals how haem electronic properties can influence the kinetic and catalytic parameters of neuronal NO synthase. <i>Biochemical Journal</i> , 2011, 433, 163-174.	1.7	9

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55	A kinetic model linking protein conformational motions, interflavin electron transfer and electron flux through a dual-flavin enzyme—simulating the reductase activity of the endothelial and neuronal nitric oxide synthase flavoprotein domains. <i>FEBS Journal</i> , 2011, 278, 4055-4069.	2.2	17
56	Sulfite Oxidase: A Novel Nitrite Reductase that Generates Nitric Oxide. <i>Free Radical Biology and Medicine</i> , 2011, 51, S164.	1.3	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. <i>Journal of Biological Chemistry</i> , 2011, 286, 42679-42689.	1.6	69
58	Influence of Heme-Thiolate in Shaping the Catalytic Properties of a Bacterial Nitric-oxide Synthase. <i>Journal of Biological Chemistry</i> , 2011, 286, 39224-39235.	1.6	21
59	Nitric Oxide Scavenging by Red Blood Cell Microparticles and Cell-Free Hemoglobin as a Mechanism for the Red Cell Storage Lesion. <i>Circulation</i> , 2011, 124, 465-476.	1.6	674
60	HUMAN NEUROGLOBIN FUNCTIONS AS A REDOX REGULATED NITRITE REDUCTASE. <i>FASEB Journal</i> , 2011, 25, .	0.2	2
61	Evidence for S-nitrosothiol Formation by a Nitrite Dependent Pathway During Reductive Nitrosylation of Ferric Hemoglobin. <i>Free Radical Biology and Medicine</i> , 2010, 49, S108.	1.3	0
62	Surface Charges and Regulation of FMN to Heme Electron Transfer in Nitric-oxide Synthase. <i>Journal of Biological Chemistry</i> , 2010, 285, 27232-27240.	1.6	41
63	A Bridging Interaction Allows Calmodulin to Activate NO Synthase through a Bi-modal Mechanism. <i>Journal of Biological Chemistry</i> , 2010, 285, 25941-25949.	1.6	29
64	Structural and mechanistic aspects of flavoproteins: electron transfer through the nitric oxide synthase flavoprotein domain. <i>FEBS Journal</i> , 2009, 276, 3959-3974.	2.2	104
65	Fast ferrous heme—NO oxidation in nitric oxide synthases. <i>FEBS Journal</i> , 2009, 276, 4505-4514.	2.2	25
66	Regulation of FMN Subdomain Interactions and Function in Neuronal Nitric Oxide Synthase. <i>Biochemistry</i> , 2009, 48, 3864-3876.	1.2	48
67	Catalytic Reduction of a Tetrahydrobiopterin Radical within Nitric-oxide Synthase. <i>Journal of Biological Chemistry</i> , 2008, 283, 11734-11742.	1.6	67
68	Stabilization and Characterization of a Heme-Oxy Reaction Intermediate in Inducible Nitric-oxide Synthase. <i>Journal of Biological Chemistry</i> , 2008, 283, 33498-33507.	1.6	46
69	Higher blood flow and circulating NO products offset high-altitude hypoxia among Tibetans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 17593-17598.	3.3	299
70	Catalytic mechanism of hydride transfer between NADP+/H and ferredoxin-NADP+ reductase from <i>Anabaena</i> PCC 7119. <i>Archives of Biochemistry and Biophysics</i> , 2007, 459, 79-90.	1.4	41
71	A connecting hinge represses the activity of endothelial nitric oxide synthase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 9254-9259.	3.3	59
72	Versatile Regulation of Neuronal Nitric Oxide Synthase by Specific Regions of Its C-Terminal Tail. <i>Biochemistry</i> , 2007, 46, 14418-14428.	1.2	30

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73	Oxygenase Domain of <i>Drosophila melanogaster</i> Nitric Oxide Synthase: Unique Kinetic Parameters Enable a More Efficient NO Release. <i>Biochemistry</i> , 2007, 46, 11857-11864.	1.2	9
74	Point Mutations in Protein Globular Domains: Contributions from Function, Stability and Misfolding. <i>Journal of Molecular Biology</i> , 2006, 363, 422-432.	2.0	42
75	Towards a new interaction enzyme:coenzyme. <i>Biophysical Chemistry</i> , 2005, 115, 219-224.	1.5	8
76	C-Terminal Tyrosine of Ferredoxin-NADP+ Reductase in Hydride Transfer Processes with NAD(P)+/H. <i>Biochemistry</i> , 2005, 44, 13477-13490.	1.2	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 Flavodoxin. <i>Biochemistry</i> , 2004, 43, 6127-6137.	1.2	72
78	Involvement of the Pyrophosphate and the 2-Phosphate Binding Regions of Ferredoxin-NADP+ Reductase in Coenzyme Specificity. <i>Journal of Biological Chemistry</i> , 2003, 278, 49203-49214.	1.6	34
79	Probing the Determinants of Coenzyme Specificity in Ferredoxin-NADP+ Reductase by Site-directed Mutagenesis. <i>Journal of Biological Chemistry</i> , 2001, 276, 11902-11912.	1.6	54