Ann Smith

List of Publications by Year
in descending order

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65 papers	5,112 citations	109321 35 h-index	110387 64 g-index
67 all docs	67 docs citations	67 times ranked	4285 citing authors

#	Article	IF	Citations
1	Heme-Induced Oxidation of Cysteine Groups of Myofilament Proteins Leads to Contractile Dysfunction of Permeabilized Human Skeletal Muscle Fibres. International Journal of Molecular Sciences, 2020, 21, 8172.	4.1	5
2	What Is Next in This â€œAgeâ€•of Heme-Driven Pathology and Protection by Hemopexin? An Update and Links with Iron. Pharmaceuticals, 2019, 12, 144.	3.8	17
3	Safe coordinated trafficking of heme and iron with copper maintain cell homeostasis: modules from the hemopexin system. BioMetals, 2019, 32, 355-367.	4.1	9
4	Heme Induces Endoplasmic Reticulum Stress (HIER Stress) in Human Aortic Smooth Muscle Cells. Frontiers in Physiology, 2018, 9, 1595.	2.8	26
5	Mechanisms of haem toxicity in haemolysis and protection by the haemâ€binding protein, haemopexin. ISBT Science Series, 2017, 12, 119-133.	1.1	5
6	Identification of oxidative modifications of hemopexin and their predicted physiological relevance. Journal of Biological Chemistry, 2017, 292, 13658-13671.	3.4	11
7	Purified and Recombinant Hemopexin: Protease Activity and Effect on Neutrophil Chemotaxis. Molecular Medicine, 2016, 22, 22-31.	4.4	7
8	Hepatic Overexpression of Hemopexin Inhibits Inflammation and Vascular Stasis in Murine Models of Sickle Cell Disease. Molecular Medicine, 2016, 22, 437-451.	4.4	45
9	A role for amyloid precursor protein translation to restore iron homeostasis and ameliorate lead (Pb) neurotoxicity. Journal of Neurochemistry, 2016, 138, 479-494.	3.9	33
10	Hemopexin and haptoglobin: allies against heme toxicity from hemoglobin not contenders. Frontiers in Physiology, 2015, 6, 187.	2.8	193
11	Heme triggers TLR4 signaling leading to endothelial cell activation and vaso-occlusion in murine sickle cell disease. Blood, 2014, 123, 377-390.	1.4	555
12	Mechanisms of neuroprotection by hemopexin: modeling the control of heme and iron homeostasis in brain neurons in inflammatory states. Journal of Neurochemistry, 2013, 125, 89-101.	3.9	57
13	Protection against Heme Toxicity: Hemopexin Rules, OK?. Handbook of Porphyrin Science, 2013, , 311-338.	0.8	3
14	An alternative view of the proposed alternative activities of hemopexin. Protein Science, 2011, 20, 791-805.	7.6	31
15	Red Cells, Hemoglobin, Heme, Iron, and Atherogenesis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 1347-1353.	2.4	200
16	Kinetics and Specificity of Feline Leukemia Virus Subgroup C Receptor (FLVCR) Export Function and Its Dependence on Hemopexin. Journal of Biological Chemistry, 2010, 285, 28874-28882.	3.4	74
17	A Central Role for Free Heme in the Pathogenesis of Severe Sepsis. Science Translational Medicine, 2010, 2, 51ra71.	12.4	412
18	Role for copper in the cellular and regulatory effects of heme-hemopexin. BioMetals, 2009, 22, 421-437.	4.1	13

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19	Hemeâ€“Hemopexin Complex Attenuates Neuronal Cell Death and Stroke Damage. Journal of Cerebral Blood Flow and Metabolism, 2009, 29, 953-964.	4.3	81
20	An investigation of hemopexin redox properties by spectroelectrochemistry: biological relevance for heme uptake. BioMetals, 2008, 21, 239-248.	4.1	14
21	Heme Oxygenase-1 Protein Localizes to the Nucleus and Activates Transcription Factors Important in Oxidative Stress. Journal of Biological Chemistry, 2007, 282, 20621-20633.	3.4	344
22	Interaction of heme and hemeâ€“hemopexin with an extracellular oxidant system used to measure cell growth-associated plasma membrane electron transport. Biochimica Et Biophysica Acta - Bioenergetics, 2007, 1767, 1107-1117.	1.0	11
23	Membrane Phospholipid Reorganization Differentially Regulates Metallothionein and Heme Oxygenase by Hemeâ€“Hemopexin. DNA and Cell Biology, 2002, 21, 355-364.	1.9	19
24	Effects of reduction and ligation of heme iron on the thermal stability of heme-hemopexin complexes. The Protein Journal, 2001, 20, 145-154.	1.1	14
25	Growth inhibition of Bacteroides fragilis by hemopexin: proteolytic degradation of hemopexin to overcome heme limitation. FEMS Microbiology Letters, 2001, 199, 73-78.	1.8	13
26	Heme binding by hemopexin: evidence for multiple modes of binding and functional implications. The Protein Journal, 2000, 19, 239-248.	1.1	30
27	Role for Copper in Transient Oxidation and Nuclear Translocation of MTF-1, but Not of NF-Î¹B, by the Hemeâ€“Hemopexin Transport System. Antioxidants and Redox Signaling, 2000, 2, 739-752.	5.4	33
28	Cell-Surface Events for Metallothionein-1 and Heme Oxygenase-1 Regulation by the Hemopexinâ€“Heme Transport System. Antioxidants and Redox Signaling, 2000, 2, 753-765.	5.4	19
29	Links Between Cell-Surface Events Involving Redox-Active Copper and Gene Regulation in the Hemopexin Heme Transport System. Antioxidants and Redox Signaling, 2000, 2, 157-175.	5.4	24
30	Cellular Protection Mechanisms against Extracellular Heme. Journal of Biological Chemistry, 1999, 274, 638-648.	3.4	91
31	Crystal structure of hemopexin reveals a novel high-affinity heme site formed between two beta-propeller domains. Nature Structural Biology, 1999, 6, 926-931.	9.7	219
32	Coordination of nitric oxide by heme-hemopexin. The Protein Journal, 1998, 17, 255-260.	1.1	24
33	Expression of the Protective Proteins Hemopexin and Haptoglobin by Cells of the Neural Retina. Experimental Eye Research, 1998, 67, 83-93.	2.6	46
34	Role of Hemeâ€“Hemopexin in Human T-Lymphocyte Proliferation. Experimental Cell Research, 1997, 232, 246-254.	2.6	28
35	Role of Hemopexin in Protection of Low-Density Lipoprotein against Hemoglobin-Induced Oxidation. Biochemistry, 1996, 35, 13112-13117.	2.5	94
36	Heme binding by a bacterial repressor protein, the gene product of the ferric uptake regulation (fur) gene ofEscherichia coli. The Protein Journal, 1996, 15, 575-583.	1.1	26

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37	Hemopexin in the human retina: Protection of the retina against heme-mediated toxicity. , 1996, 168, 71-80.		64
38	Heme-mediated reactive oxygen species toxicity to retinal pigment epithelial cells is reduced by hemopexin. , 1996, 168, 81-86.		40
39	Mechanism of Metallothionein Gene Regulation by Heme-Hemopexin. Journal of Biological Chemistry, 1995, 270, 23988-23995.	3.4	59
40	Evidence for the localization of haemopexin immunoreactivity in neurones in the human brain. Neuroscience Letters, 1993, 149, 141-144.	2.1	49
41	Regulation of heme oxygenase and metallothionein gene expression by the heme analogs, cobalt-, and tin-protoporphyrin.. Journal of Biological Chemistry, 1993, 268, 7365-7371.	3.4	78
42	Identification of the histidine residues of hemopexin that coordinate with heme-iron and of a receptor-binding region.. Journal of Biological Chemistry, 1993, 268, 6256-6262.	3.4	67
43	Identification of the histidine residues of hemopexin that coordinate with heme-iron and of a receptor-binding region. Journal of Biological Chemistry, 1993, 268, 6256-62.	3.4	64
44	Regulation of heme oxygenase and metallothionein gene expression by the heme analogs, cobalt-, and tin-protoporphyrin. Journal of Biological Chemistry, 1993, 268, 7365-71.	3.4	70
45	Heme-hemopexin-mediated induction of metallothionein gene expression.. Journal of Biological Chemistry, 1992, 267, 16379-16384.	3.4	78
46	Heme-hemopexin-mediated induction of metallothionein gene expression. Journal of Biological Chemistry, 1992, 267, 16379-84.	3.4	63
47	The murine haemopexin receptor. Evidence that the haemopexin-binding site resides on a 20 kDa subunit and that receptor recycling is regulated by protein kinase C. Biochemical Journal, 1991, 276, 417-425.	3.7	27
48	Hemopexin joins transferrin as representative members of a distinct class of receptor-mediated endocytic transport systems. European Journal of Cell Biology, 1990, 53, 234-45.	3.6	79
49	Transcriptional Activation of the Heme Oxygenase Gene by Heme and Cadmium in Mouse Hepatoma Cells. Journal of Biological Chemistry, 1989, 264, 6371-6375.	3.4	210
50	Receptor-mediated transport of heme by hemopexin regulates gene expression in mammalian cells. Journal of Biological Chemistry, 1989, 264, 17637-17640.	3.4	76
51	Receptor-mediated transport of heme by hemopexin regulates gene expression in mammalian cells. Journal of Biological Chemistry, 1989, 264, 17637-40.	3.4	64
52	Transcriptional activation of the heme oxygenase gene by heme and cadmium in mouse hepatoma cells. Journal of Biological Chemistry, 1989, 264, 6371-5.	3.4	169
53	Antioxidant protection by haemopexin of haem-stimulated lipid peroxidation. Biochemical Journal, 1988, 256, 861-865.	3.7	274
54	Expression of the haemopexin-transport system in cultured mouse hepatoma cells. Links between haemopexin and iron metabolism. Biochemical Journal, 1988, 256, 941-950.	3.7	55

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55	Use of hemopexin domains and monoclonal antibodies to hemopexin to probe the molecular determinants of hemopexin-mediated heme transport.. Journal of Biological Chemistry, 1988, 263, 8220-8225.	3.4	28
56	Use of hemopexin domains and monoclonal antibodies to hemopexin to probe the molecular determinants of hemopexin-mediated heme transport. Journal of Biological Chemistry, 1988, 263, 8220-5.	3.4	23
57	Cleavage of Rabbit Hemopexin by Plasmin and Isolation of Two Glycopeptides. Protides of the Biological Fluids; Proceedings of the Colloquium, 1984, 31, 219-224.	0.1	6
58	Domain structure of rabbit hemopexin. Isolation and characterization of a heme-binding glycopeptide.. Journal of Biological Chemistry, 1984, 259, 12001-12006.	3.4	55
59	Domain structure of rabbit hemopexin. Isolation and characterization of a heme-binding glycopeptide. Journal of Biological Chemistry, 1984, 259, 12001-6.	3.4	40
60	Hemopexin-mediated transport of heme into isolated rat hepatocytes.. Journal of Biological Chemistry, 1981, 256, 10902-10909.	3.4	117
61	Hemopexin-mediated transport of heme into isolated rat hepatocytes. Journal of Biological Chemistry, 1981, 256, 10902-9.	3.4	100
62	Hepatic subcellular metabolism of heme from heme-hemopexin: Incorporation of iron into ferritin. Biochemical and Biophysical Research Communications, 1979, 91, 1504-1511.	2.1	73
63	Haem transport to the liver by haemopexin. Receptor-mediated uptake with recycling of the protein. Biochemical Journal, 1979, 182, 47-54.	3.7	168
64	Transport of heme by hemopexin to the liver: Evidence for receptor-mediated uptake. Biochemical and Biophysical Research Communications, 1978, 84, 151-157.	2.1	69
65	Biliary excretion of exogenous hematin in rats. Life Sciences, 1977, 21, 1015-1020.	4.3	11