Miguel P Soares

List of Publications by Year
in descending order

119	19,698	66	118
papers	citations	h-index	g-index
		14614	19136

125	125	125	19426
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Carbon monoxide has anti-inflammatory effects involving the mitogen-activated protein kinase pathway. Nature Medicine, 2000, 6, 422-428.	15.2	2,506
2	Disease Tolerance as a Defense Strategy. Science, 2012, 335, 936-941.	6.0	1,335
3	Mechanisms of Cell Protection by Heme Oxygenase-1. Annual Review of Pharmacology and Toxicology, 2010, 50, 323-354.	4.2	1,057
4	Heme oxygenase-1: unleashing the protective properties of heme. Trends in Immunology, 2003, 24, 449-455.	2.9	1,054
5	Carbon Monoxide Generated by Heme Oxygenase 1 Suppresses Endothelial Cell Apoptosis. Journal of Experimental Medicine, 2000, 192, 1015-1026.	4.2	910
6	Expression of heme oxygenase-1 can determine cardiac xenograft survival. Nature Medicine, 1998, 4, 1073-1077.	15.2	601
7	Different Faces of the Heme-Heme Oxygenase System in Inflammation. Pharmacological Reviews, 2003, 55, 551-571.	7.1	503
8	Carbon monoxide suppresses arteriosclerotic lesions associated with chronic graft rejection and with balloon injury. Nature Medicine, 2003, 9, 183-190.	15.2	493
9	Heme oxygenase-1 and carbon monoxide suppress the pathogenesis of experimental cerebral malaria. Nature Medicine, 2007, 13, 703-710.	15.2	488
10	Carbon Monoxide Generated by Heme Oxygenase-1 Suppresses the Rejection of Mouse-to-Rat Cardiac Transplants. Journal of Immunology, 2001, 166, 4185-4194.	0.4	440
11	Electrophilic properties of itaconate and derivatives regulate theÂIÎºBÎ¶â€“ATF3 inflammatory axis. Nature, 2018, 556, 501-504.	13.7	438
12	Heme Oxygenase-1 Modulates the Expression of Adhesion Molecules Associated with Endothelial Cell Activation. Journal of Immunology, 2004, 172, 3553-3563.	0.4	414
13	A Central Role for Free Heme in the Pathogenesis of Severe Sepsis. Science Translational Medicine, 2010, 2, 51ra71.	5.8	412
14	Macrophages and Iron Metabolism. Immunity, 2016, 44, 492-504.	6.6	301
15	Gut Microbiota Elicits a Protective Immune Response against Malaria Transmission. Cell, 2014, 159, 1277-1289.	13.5	279
16	Heme Oxygenase-1-derived Carbon Monoxide Requires the Activation of Transcription Factor NF-ÎºB to Protect Endothelial Cells from Tumor Necrosis Factor-Î±-mediated Apoptosis. Journal of Biological Chemistry, 2002, 277, 17950-17961.	1.6	272
17	Heme oxygenaseâ€“1 and carbon monoxide suppress autoimmune neuroinflammation. Journal of Clinical Investigation, 2007, 117, 438-447.	3.9	268
18	Sickle Hemoglobin Confers Tolerance to Plasmodium Infection. Cell, 2011, 145, 398-409.	13.5	267

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19	Disease tolerance and immunity in host protection against infection. Nature Reviews Immunology, 2017, 17, 83-96.	10.6	265
20	Heme oxygenase-1 affords protection against noncerebral forms of severe malaria. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 15837-15842.	3.3	246
21	Bilirubin. Circulation, 2005, 112, 1030-1039.	1.6	223
22	Heme oxygenase-1: from biology to therapeutic potential. Trends in Molecular Medicine, 2009, 15, 50-58.	3.5	212
23	Metabolic Adaptation Establishes Disease Tolerance to Sepsis. Cell, 2017, 169, 1263-1275.e14.	13.5	207
24	Red Cells, Hemoglobin, Heme, Iron, and Atherogenesis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 1347-1353.	1.1	200
25	Glucocorticoid-mediated Repression of NFÎºB Activity in Endothelial Cells Does Not Involve Induction of IÎºBÎ± Synthesis. Journal of Biological Chemistry, 1996, 271, 19612-19616.	1.6	191
26	The Iron age of hostâ€"microbe interactions. EMBO Reports, 2015, 16, 1482-1500.	2.0	186
27	Heme oxygenaseâ€1â€derived carbon monoxide protects hearts from transplantâ€associated ischemia reperfusion injury. FASEB Journal, 2004, 18, 771-772.	0.2	182
28	Biliverdin, a natural product of heme catabolism, induces tolerance to cardiac allografts. FASEB Journal, 2004, 18, 765-767.	0.2	178
29	Regulation of NF-ÎºB RelA Phosphorylation and Transcriptional Activity by p21 and Protein Kinase CÎ¶ in Primary Endothelial Cells. Journal of Biological Chemistry, 1999, 274, 13594-13603.	1.6	177
30	A central role for free heme in the pathogenesis of severe malaria: the missing link?. Journal of Molecular Medicine, 2008, 86, 1097-1111.	1.7	172
31	The Microglial Î±7-Acetylcholine Nicotinic Receptor Is a Key Element in Promoting Neuroprotection by Inducing Heme Oxygenase-1 <i>via</i> Nuclear Factor Erythroid-2-Related Factor 2. Antioxidants and Redox Signaling, 2013, 19, 1135-1148.	2.5	162
32	Macrophages sense and kill bacteria through carbon monoxideâ€"dependent inflammasome activation. Journal of Clinical Investigation, 2014, 124, 4926-4940.	3.9	151
33	M.Âtuberculosis Reprograms Hematopoietic Stem Cells to Limit Myelopoiesis and Impair Trained Immunity. Cell, 2020, 183, 752-770.e22.	13.5	148
34	Tissue damage control in disease tolerance. Trends in Immunology, 2014, 35, 483-494.	2.9	147
35	Anthracyclines Induce DNA Damage Response-Mediated Protection against Severe Sepsis. Immunity, 2013, 39, 874-884.	6.6	131
36	Heme Oxygenase-1 Is an Anti-Inflammatory Host Factor that Promotes Murine Plasmodium Liver Infection. Cell Host and Microbe, 2008, 3, 331-338.	5.1	127

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37	Coupling Heme and Iron Metabolism<i>via</i>Ferritin H Chain. Antioxidants and Redox Signaling, 2014, 20, 1754-1769.	2.5	126
38	Modulation of Endothelial Cell Apoptosis by Heme Oxygenase-1-Derived Carbon Monoxide. Antioxidants and Redox Signaling, 2002, 4, 321-329.	2.5	123
39	Metabolic Adaptation to Tissue Iron Overload Confers Tolerance to Malaria. Cell Host and Microbe, 2012, 12, 693-704.	5.1	123
40	Heme Oxygenase-1 Inhibits the Expression of Adhesion Molecules Associated with Endothelial Cell Activation via Inhibition of NF-ÎºB <i>RelA</i> Phosphorylation at Serine 276. Journal of Immunology, 2007, 179, 7840-7851.	0.4	120
41	Heme Oxygenase 1 Determines Atherosclerotic Lesion Progression Into a Vulnerable Plaque. Circulation, 2009, 119, 3017-3027.	1.6	120
42	Red alert: labile heme is an alarmin. Current Opinion in Immunology, 2016, 38, 94-100.	2.4	119
43	Oxidized Hemoglobin Is an Endogenous Proinflammatory Agonist That Targets Vascular Endothelial Cells. Journal of Biological Chemistry, 2009, 284, 29582-29595.	1.6	113
44	Disease Tolerance as an Inherent Component of Immunity. Annual Review of Immunology, 2019, 37, 405-437.	9.5	109
45	Modification of vascular responses in xenotransplantation: Inflammation and apoptosis. Nature Medicine, 1997, 3, 944-948.	15.2	108
46	Carbon Monoxide Protects Pancreatic Â-Cells From Apoptosis and Improves Islet Function/Survival After Transplantation. Diabetes, 2002, 51, 994-999.	0.3	108
47	Heme oxygenaseâ€1 is essential for and promotes tolerance to transplanted organs. FASEB Journal, 2006, 20, 776-778.	0.2	103
48	XENOGENEIC ENDOTHELIAL CELLS ACTIVATE HUMAN PROTHROMBIN1,2. Transplantation, 1997, 64, 888-896.	0.5	100
49	The Antiapoptotic Effect of Heme Oxygenase-1 in Endothelial Cells Involves the Degradation of p38Î± MAPK Isoform. Journal of Immunology, 2006, 177, 1894-1903.	0.4	99
50	Immunoregulatory effects of HO-1: how does it work?. Current Opinion in Pharmacology, 2009, 9, 482-489.	1.7	95
51	Beyond killing. Evolution, Medicine and Public Health, 2016, 2016, 148-157.	1.1	87
52	Heme Cytotoxicity and the Pathogenesis of Immune-Mediated Inflammatory Diseases. Frontiers in Pharmacology, 2012, 3, 77.	1.6	86
53	Heme oxygenase-1 and its reaction product, carbon monoxide, prevent inflammation-related apoptotic liver damage in mice. Hepatology, 2003, 38, 909-918.	3.6	86
54	Heme oxygenase-1 (HO-1), a protective gene that prevents chronic graft dysfunction. Free Radical Biology and Medicine, 2005, 38, 426-435.	1.3	84

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55	Donor Treatment With Carbon Monoxide Can Yield Islet Allograft Survival and Tolerance. Diabetes, 2005, 54, 1400-1406.	0.3	83
56	Statinâ€mediated cytoprotection of human vascular endothelial cells: a role for Kruppelâ€like factor 2â€dependent induction of heme oxygenaseâ€1. Journal of Thrombosis and Haemostasis, 2007, 5, 2537-2546.	1.9	83
57	Heme oxygenase-1 expression enhances vascular endothelial resistance to complement-mediated injury through induction of decay-accelerating factor: a role for increased bilirubin and ferritin. Blood, 2009, 113, 1598-1607.	0.6	83
58	Accommodation. Trends in Immunology, 1999, 20, 434-437.	7.5	82
59	Heme oxygenase-1, a protective gene that prevents the rejection of transplanted organs. Immunological Reviews, 2001, 184, 275-285.	2.8	81
60	Haem oxygenaseâ€1 dictates intrauterine fetal survival in mice via carbon monoxide. Journal of Pathology, 2011, 225, 293-304.	2.1	80
61	Heme oxygenaseâ€1 modulates the alloâ€immune response by promoting activationâ€induced cell death of T cells. FASEB Journal, 2005, 19, 1-22.	0.2	79
62	Innate Nutritional Immunity. Journal of Immunology, 2018, 201, 11-18.	0.4	78
63	Macrophage and epithelial cell H-ferritin expression regulates renal inflammation. Kidney International, 2015, 88, 95-108.	2.6	77
64	CLECâ€2 signaling via Syk in myeloid cells can regulate inflammatory responses. European Journal of Immunology, 2011, 41, 3040-3053.	1.6	75
65	Heme Catabolism by Heme Oxygenase-1 Confers Host Resistance to Mycobacterium Infection. Infection and Immunity, 2013, 81, 2536-2545.	1.0	71
66	Cooperative effect of biliverdin and carbon monoxide on survival of mice in immune-mediated liver injury. Hepatology, 2004, 40, 1128-1135.	3.6	69
67	The Genetic Basis of Escherichia coli Pathoadaptation to Macrophages. PLoS Pathogens, 2013, 9, e1003802.	2.1	63
68	Control of Disease Tolerance to Malaria by Nitric Oxide and Carbon Monoxide. Cell Reports, 2014, 8, 126-136.	2.9	62
69	Heme catabolism by tumor-associated macrophages controls metastasis formation. Nature Immunology, 2021, 22, 595-606.	7.0	59
70	Expression of protective genes in human renal allografts: a regulatory response to injury associated with graft rejection1,2. Transplantation, 2002, 73, 1079-1085.	0.5	58
71	Renal control of disease tolerance to malaria. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5681-5686.	3.3	58
72	Heme oxygenase 1 controls early innate immune response of macrophages to<i>Salmonella</i>Typhimurium infection. Cellular Microbiology, 2016, 18, 1374-1389.	1.1	55

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73	Characterization of plasma labile heme in hemolytic conditions. FEBS Journal, 2017, 284, 3278-3301.	2.2	55
74	Termination of NF-ÎºB activity through a gammaherpesvirus protein that assembles an EC5S ubiquitin-ligase. EMBO Journal, 2009, 28, 1283-1295.	3.5	54
75	Ferritin H Deficiency in Myeloid Compartments Dysregulates Host Energy Metabolism and Increases Susceptibility to Mycobacterium tuberculosis Infection. Frontiers in Immunology, 2018, 9, 860.	2.2	53
76	IL-22 controls iron-dependent nutritional immunity against systemic bacterial infections. Science Immunology, 2017, 2, .	5.6	50
77	Heme oxygenase-1 in organ transplantation. Frontiers in Bioscience - Landmark, 2007, 12, 4932.	3.0	47
78	Interleukin-1 promotes autoimmune neuroinflammation by suppressing endothelial heme oxygenase-1 at the bloodâ€"brain barrier. Acta Neuropathologica, 2020, 140, 549-567.	3.9	47
79	Heme oxygenase-1 is not required for mouse regulatory T cell development and function. International Immunology, 2006, 19, 11-18.	1.8	45
80	Ferritin regulates organismal energy balance and thermogenesis. Molecular Metabolism, 2019, 24, 64-79.	3.0	42
81	Atherogenesis May Involve the Prooxidant and Proinflammatory Effects of Ferryl Hemoglobin. Oxidative Medicine and Cellular Longevity, 2013, 2013, 1-13.	1.9	41
82	Specific expression of heme oxygenase-1 by myeloid cells modulates renal ischemia-reperfusion injury. Scientific Reports, 2017, 7, 197.	1.6	40
83	Trained innate immunity, long-lasting epigenetic modulation, and skewed myelopoiesis by heme. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	40
84	Nrf2 as a master regulator of tissue damage control and disease tolerance to infection. Biochemical Society Transactions, 2015, 43, 663-668.	1.6	39
85	IN VIVO DEPLETION OF XENOREACTIVE NATURAL ANTIBODIES WITH AN ANTI-Î¼ MONOCLONAL ANTIBODY1,2. Transplantation, 1993, 56, 1427-1432.	0.5	37
86	Long-Term Survival of Hamster Hearts in Presensitized Rats. Journal of Immunology, 2000, 164, 4883-4892.	0.4	37
87	TRANSIENT COMPLEMENT INHIBITION PLUS T-CELL IMMUNOSUPPRESSION INDUCES LONG-TERM SURVIVAL OF MOUSE-TO-RAT CARDIAC XENOGRAFTS1, 2. Transplantation, 1998, 65, 1210-1215.	0.5	36
88	Heme oxygenase-1 orchestrates the immunosuppressive program of tumor-associated macrophages. JCI Insight, 2020, 5, .	2.3	32
89	EFFECTS OF LEFLUNOMIDE AND DEOXYSPERGUALIN IN THE GUINEA PIG???RAT CARDIAC MODEL OF DELAYED XENOGRAFT REJECTION. Transplantation, 1997, 64, 696-704.	0.5	31
90	SURVIVAL OF ACCOMMODATED CARDIAC XENOGRAFTS UPON RETRANSPLANTATION INTO CYCLOSPORINE-TREATED RECIPIENTS1,2. Transplantation, 1998, 65, 1563-1569.	0.5	31

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91	Dendritic Cell Function in Transplantation Arteriosclerosis Is Regulated by Heme Oxygenase 1. Circulation Research, 2010, 106, 1656-1666.	2.0	30
92	Regulation of Nuclear Factor ÎºB (NF-ÎºB) Transcriptional Activity via p65 Acetylation by the Chaperonin Containing TCP1 (CCT). PLoS ONE, 2012, 7, e42020.	1.1	26
93	Improved renal function after kidney transplantation is associated with heme oxygenaseâ€1 polymorphism. Clinical Transplantation, 2008, 22, 609-616.	0.8	25
94	Microbiota Control of Malaria Transmission. Trends in Parasitology, 2016, 32, 120-130.	1.5	23
95	Depletion of IgM Xenoreactive Natural Antibodies by Injection of anti-mu Monoclonal Antibodies. Immunological Reviews, 1994, 141, 95-125.	2.8	22
96	SPECIFIC DEPLETION OF PREFORMED IgM NATURAL ANTIBODIES BY ADMINISTRATION OF ANTI-?? MONOCLONAL ANTIBODY SUPPRESSES HYPERACUTE REJECTION OF PIG TO BABOON RENAL XENOGRAFTS1. Transplantation, 2000, 70, 935-946.	0.5	22
97	Labile heme impairs hepatic microcirculation and promotes hepatic injury. Archives of Biochemistry and Biophysics, 2019, 672, 108075.	1.4	21
98	Heme Sensitization to TNF-Mediated Programmed Cell Death. Advances in Experimental Medicine and Biology, 2011, 691, 211-219.	0.8	21
99	SUPPRESSION OF DELAYED XENOGRAFT REJECTION BY SPECIFIC DEPLETION OF ELICITED ANTIBODIES OF THE IgM ISOTYPE1. Transplantation, 1999, 68, 844-854.	0.5	21
100	Cross-Talk Between Iron and Glucose Metabolism in the Establishment of Disease Tolerance. Frontiers in Immunology, 2018, 9, 2498.	2.2	18
101	Identification of cyclins A1, E1 and vimentin as downstream targets of heme oxygenase-1 in vascular endothelial growth factor-mediated angiogenesis. Scientific Reports, 2016, 6, 29417.	1.6	18
102	Regulatory T cell maintenance of dominant tolerance: Induction of tissue self-defense?. Transplant Immunology, 2006, 17, 7-10.	0.6	16
103	Involvement of the p62/NRF2 signal transduction pathway on erythrophagocytosis. Scientific Reports, 2017, 7, 5812.	1.6	16
104	Disruption of Parasite<i>hmgb2</i>Gene Attenuates Plasmodium berghei ANKA Pathogenicity. Infection and Immunity, 2015, 83, 2771-2784.	1.0	15
105	Loss of Î±-gal during primate evolution enhanced antibody-effector function and resistance to bacterial sepsis. Cell Host and Microbe, 2021, 29, 347-361.e12.	5.1	14
106	Preformed antibody and complement rebound after plasma exchange: analysis of immunoglobulin isotypes and effect of splenectomy. Transplant Immunology, 1994, 2, 231-237.	0.6	10
107	VEGF: is it just an inducer of heme oxygenase-1 expression?. Blood, 2004, 103, 751-751.	0.6	10
108	Heme Oxygenase-1 Induction by Blood-Feeding Arthropods Controls Skin Inflammation and Promotes Disease Tolerance. Cell Reports, 2020, 33, 108317.	2.9	10

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109	A hypometabolic defense strategy against malaria. Cell Metabolism, 2022, 34, 1183-1200.e12.	7.2	10
110	C1q receptors and endothelial cell activation. Translational Research, 1999, 133, 520-522.	2.4	8
111	Glycan-based shaping of the microbiota during primate evolution. ELife, 2021, 10, .	2.8	8
112	Pathogenesis of and potential therapies for delayed xenograft rejection. Current Opinion in Organ Transplantation, 1999, 4, 80.	0.8	8
113	â€œNuts and Boltsâ€•of Disease Tolerance. Immunity, 2014, 41, 176-178.	6.6	7
114	Rejection of hamster cardiac xenografts by rat CD4+ or CD8+ T cells. Transplantation Proceedings, 1999, 31, 959-960.	0.3	4
115	TH2 cytokines regulate gene expression and proinflammatory responses in xenografts. Transplantation Proceedings, 2001, 33, 776-777.	0.3	3
116	Cross-Regulation of Iron and Glucose Metabolism in Response to Infection. Biochemistry, 2017, 56, 5713-5714.	1.2	2
117	CD23 Expression in Aged Rats. International Archives of Allergy and Immunology, 1992, 97, 330-336.	0.9	1
118	Microbiotaâ€™s No Wasting Policy. Cell, 2015, 163, 1057-1058.	13.5	1
119	Donor-Derived Myeloid Heme Oxygenase-1 Controls the Development of Graft-Versus-Host Disease. Frontiers in Immunology, 2020, 11, 579151.	2.2	1