

Roberta Foresti

List of Publications by Year in descending order

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95
papers

12,250
citations

38742

50
h-index

45317

90
g-index

103
all docs

103
docs citations

103
times ranked

9393
citing authors

#	ARTICLE	IF	CITATIONS
1	Curcumin activates the haem oxygenase-1 gene via regulation of Nrf2 and the antioxidant-responsive element. <i>Biochemical Journal</i> , 2003, 371, 887-895.	3.7	932
2	Carbon Monoxide-Releasing Molecules. <i>Circulation Research</i> , 2002, 90, E17-24.	4.5	875
3	Use of carbon monoxide as a therapeutic agent: promises and challenges. <i>Intensive Care Medicine</i> , 2008, 34, 649-658.	8.2	754
4	Curcumin, an antioxidant and anti-inflammatory agent, induces heme oxygenase-1 and protects endothelial cells against oxidative stress. <i>Free Radical Biology and Medicine</i> , 2000, 28, 1303-1312.	2.9	721
5	Cardioprotective Actions by a Water-Soluble Carbon Monoxide-Releasing Molecule. <i>Circulation Research</i> , 2003, 93, e2-8.	4.5	596
6	Carbon monoxide-releasing molecules (CO-RMs) attenuate the inflammatory response elicited by lipopolysaccharide in RAW264.7 murine macrophages. <i>British Journal of Pharmacology</i> , 2005, 145, 800-810.	5.4	344
7	CORM-1: a new pharmacologically active carbon monoxide-releasing molecule. <i>FASEB Journal</i> , 2005, 19, 1-24.	0.5	331
8	Heme oxygenase-1-derived bilirubin ameliorates postischemic myocardial dysfunction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000, 278, H643-H651.	3.2	326
9	Thiol Compounds Interact with Nitric Oxide in Regulating Heme Oxygenase-1 Induction in Endothelial Cells. <i>Journal of Biological Chemistry</i> , 1997, 272, 18411-18417.	3.4	280
10	Dynamics of haem oxygenase-1 expression and bilirubin production in cellular protection against oxidative stress. <i>Biochemical Journal</i> , 2000, 348, 615-619.	3.7	277
11	Heme Oxygenase-1-Derived Carbon Monoxide Contributes to the Suppression of Acute Hypertensive Responses In Vivo. <i>Circulation Research</i> , 1998, 83, 568-577.	4.5	270
12	Vasoactive properties of CORM-3, a novel water-soluble carbon monoxide-releasing molecule. <i>British Journal of Pharmacology</i> , 2004, 142, 453-460.	5.4	263
13	Therapeutic applications of carbon monoxide-releasing molecules. <i>Expert Opinion on Investigational Drugs</i> , 2005, 14, 1305-1318.	4.1	261
14	The heme oxygenase pathway and its interaction with nitric oxide in the control of cellular homeostasis. <i>Free Radical Research</i> , 1999, 31, 459-475.	3.3	249
15	Endothelial Heme Oxygenase-1 Induction by Hypoxia. <i>Journal of Biological Chemistry</i> , 2000, 275, 13613-13620.	3.4	241
16	Metal Carbonyls: A New Class of Pharmaceuticals?. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 3722-3729.	13.8	239
17	Bioactivity and Pharmacological Actions of Carbon Monoxide-Releasing Molecules. <i>Current Pharmaceutical Design</i> , 2003, 9, 2525-2539.	1.9	235
18	Bilirubin decreases NOS2 expression via inhibition of NAD(P)H oxidase: implications for protection against endotoxic shock in rats. <i>FASEB Journal</i> , 2005, 19, 1890-1892.	0.5	230

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19	Carbon monoxide is a major contributor to the regulation of vascular tone in aortas expressing high levels of haeme oxygenase-1. <i>British Journal of Pharmacology</i> , 1998, 125, 1437-1444.	5.4	209
20	Mesenchymal stem cells sense mitochondria released from damaged cells as danger signals to activate their rescue properties. <i>Cell Death and Differentiation</i> , 2017, 24, 1224-1238.	11.2	202
21	Biological signaling by carbon monoxide and carbon monoxide-releasing molecules. <i>American Journal of Physiology - Cell Physiology</i> , 2017, 312, C302-C313.	4.6	179
22	Peroxynitrite induces haem oxygenase-1 in vascular endothelial cells: a link to apoptosis. <i>Biochemical Journal</i> , 1999, 339, 729-736.	3.7	177
23	Interaction of bilirubin and biliverdin with reactive nitrogen species. <i>FEBS Letters</i> , 2003, 543, 113-119.	2.8	167
24	Heme Oxygenase Activity Modulates Vascular Endothelial Growth Factor Synthesis in Vascular Smooth Muscle Cells. <i>Antioxidants and Redox Signaling</i> , 2002, 4, 229-240.	5.4	165
25	Heme Oxygenase-1 As a Target for Drug Discovery. <i>Antioxidants and Redox Signaling</i> , 2014, 20, 1810-1826.	5.4	160
26	Heme Oxygenase-1 and Carbon Monoxide in the Heart. <i>Circulation Research</i> , 2016, 118, 1940-1959.	4.5	160
27	Metal carbonyls as pharmaceuticals? [Ru(CO) ₃ Cl(glycinate)], a CO-releasing molecule with an extensive aqueous solution chemistry. <i>Dalton Transactions</i> , 2007, , 1500.	3.3	153
28	Small molecule activators of the Nrf2-HO-1 antioxidant axis modulate heme metabolism and inflammation in BV2 microglia cells. <i>Pharmacological Research</i> , 2013, 76, 132-148.	7.1	150
29	Nitric oxide synthase is present in the cerebrospinal fluid of patients with active multiple sclerosis and is associated with increases in cerebrospinal fluid protein nitrotyrosine and S-nitrosothiols and with changes in glutathione levels. <i>Journal of Neuroscience Research</i> , 2002, 70, 580-587.	2.9	144
30	Regulation of Heme Oxygenase-1 by Redox Signals Involving Nitric Oxide. <i>Antioxidants and Redox Signaling</i> , 2002, 4, 615-624.	5.4	140
31	A carbon monoxide-releasing molecule (CORM-3) exerts bactericidal activity against <i>Pseudomonas aeruginosa</i> and improves survival in an animal model of bacteraemia. <i>FASEB Journal</i> , 2009, 23, 1023-1031.	0.5	136
32	Human and murine macrophages exhibit differential metabolic responses to lipopolysaccharide - A divergent role for glycolysis. <i>Redox Biology</i> , 2019, 22, 101147.	9.0	133
33	Carbon Monoxide Inhibits TLR-Induced Dendritic Cell Immunogenicity. <i>Journal of Immunology</i> , 2009, 182, 1877-1884.	0.8	116
34	Treatment with CO-RMs during cold storage improves renal function at reperfusion. <i>Kidney International</i> , 2006, 69, 239-247.	5.2	114
35	Dynamics of haem oxygenase-1 expression and bilirubin production in cellular protection against oxidative stress. <i>Biochemical Journal</i> , 2000, 348, 615.	3.7	99
36	Induction of Heme Oxygenase 1 by Nitrosative Stress. <i>Journal of Biological Chemistry</i> , 2002, 277, 40666-40674.	3.4	99

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37	Differential Antibacterial Activity Against <i>Pseudomonas aeruginosa</i> by Carbon Monoxide-Releasing Molecules. <i>Antioxidants and Redox Signaling</i> , 2012, 16, 153-163.	5.4	99
38	Differential Activation of Heme Oxygenase-1 by Chalcones and Rosolic Acid in Endothelial Cells. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2005, 312, 686-693.	2.5	96
39	CORM-3, a carbon monoxide-releasing molecule, alters the inflammatory response and reduces brain damage in a rat model of hemorrhagic stroke*. <i>Critical Care Medicine</i> , 2012, 40, 544-552.	0.9	94
40	Role of heme oxygenase-1 in hypoxia-reoxygenation: requirement of substrate heme to promote cardioprotection. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001, 281, H1976-H1984.	3.2	86
41	Emerging concepts on the anti-inflammatory actions of carbon monoxide-releasing molecules (CO-RMs). <i>Medical Gas Research</i> , 2012, 2, 28.	2.3	81
42	Peroxynitrite induces haem oxygenase-1 in vascular endothelial cells: a link to apoptosis. <i>Biochemical Journal</i> , 1999, 339, 729.	3.7	78
43	Bioactive Properties of Iron-Containing Carbon Monoxide-Releasing Molecules. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006, 318, 403-410.	2.5	76
44	Heme oxygenase-1 mediates the anti-inflammatory actions of 2-hydroxychalcone in RAW 264.7 murine macrophages. <i>American Journal of Physiology - Cell Physiology</i> , 2006, 290, C1092-C1099.	4.6	71
45	Vascular and angiogenic activities of CORM-401, an oxidant-sensitive CO-releasing molecule. <i>Biochemical Pharmacology</i> , 2016, 102, 64-77.	4.4	68
46	Protective Role of Heme Oxygenases against Endotoxin-induced Diaphragmatic Dysfunction in Rats. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2001, 163, 753-761.	5.6	65
47	Nrf2 activators modulate oxidative stress responses and bioenergetic profiles of human retinal epithelial cells cultured in normal or high glucose conditions. <i>Pharmacological Research</i> , 2015, 99, 296-307.	7.1	65
48	Haem and nitric oxide: synergism in the modulation of the endothelial haem oxygenase-1 pathway. <i>Biochemical Journal</i> , 2003, 372, 381-390.	3.7	62
49	Generation of bile pigments by haem oxygenase: a refined cellular strategy in response to stressful insults. <i>Biochemical Society Symposia</i> , 2004, 71, 177-192.	2.7	60
50	Carbon monoxide released by CORM-401 uncouples mitochondrial respiration and inhibits glycolysis in endothelial cells: A role for mitoBKCa channels. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015, 1847, 1297-1309.	1.0	60
51	Carbon monoxide reverses the metabolic adaptation of microglia cells to an inflammatory stimulus. <i>Free Radical Biology and Medicine</i> , 2017, 104, 311-323.	2.9	51
52	Structure-Activity Relationships of Methoxychalcones as Inducers of Heme Oxygenase-1. <i>Chemical Research in Toxicology</i> , 2008, 21, 1484-1494.	3.3	50
53	Heme oxygenase-1 induction attenuates senescence in chronic obstructive pulmonary disease lung fibroblasts by protecting against mitochondria dysfunction. <i>Aging Cell</i> , 2018, 17, e12837.	6.7	50
54	Beneficial effects of carbon monoxide-releasing molecules on post-ischemic myocardial recovery. <i>Life Sciences</i> , 2007, 80, 1619-1626.	4.3	49

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55	HYCO-3, a dual CO-releaser/Nrf2 activator, reduces tissue inflammation in mice challenged with lipopolysaccharide. <i>Redox Biology</i> , 2019, 20, 334-348.	9.0	49
56	Design and Synthesis of New Hybrid Molecules That Activate the Transcription Factor Nrf2 and Simultaneously Release Carbon Monoxide. <i>Chemistry - A European Journal</i> , 2014, 20, 14698-14704.	3.3	48
57	Diverse Nrf2 Activators Coordinated to Cobalt Carbonyls Induce Heme Oxygenase-1 and Release Carbon Monoxide in Vitro and in Vivo. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 756-762.	6.4	48
58	Detection and Removal of Endogenous Carbon Monoxide by Selective and Cell-Permeable Hemoprotein Model Complexes. <i>Journal of the American Chemical Society</i> , 2017, 139, 5984-5991.	13.7	47
59	Interaction of Carbon Monoxide with Transition Metals: Evolutionary Insights into Drug Target Discovery. <i>Current Drug Targets</i> , 2010, 11, 1595-1604.	2.1	47
60	Changes in temperature modulate heme oxygenase-1 induction by curcumin in renal epithelial cells. <i>Biochemical and Biophysical Research Communications</i> , 2003, 308, 950-955.	2.1	43
61	Homocysteine attenuates endothelial haem oxygenase-1 induction by nitric oxide (NO) and hypoxia. <i>FEBS Letters</i> , 2001, 508, 403-406.	2.8	37
62	Effects of Novel Nitric Oxide-Releasing Molecules against Oxidative Stress on Retinal Pigmented Epithelial Cells. <i>Oxidative Medicine and Cellular Longevity</i> , 2017, 2017, 1-11.	4.0	37
63	Carbon monoxide-induced metabolic switch in adipocytes improves insulin resistance in obese mice. <i>JCI Insight</i> , 2018, 3, .	5.0	36
64	Pharmacology of the H_2S -gasotransmitters NO , CO and H_2S : translational opportunities. <i>British Journal of Pharmacology</i> , 2015, 172, 1395-1396.	5.4	35
65	TLR4 activation alters labile heme levels to regulate BACH1 and heme oxygenase-1 expression in macrophages. <i>Free Radical Biology and Medicine</i> , 2019, 137, 131-142.	2.9	33
66	Sensitive quantification of carbon monoxide in vivo reveals a protective role of circulating hemoglobin in CO intoxication. <i>Communications Biology</i> , 2021, 4, 425.	4.4	32
67	Curcumin reduces cold storage-induced damage in human cardiac myoblasts. <i>Experimental and Molecular Medicine</i> , 2007, 39, 139-148.	7.7	29
68	Vasorelaxing effects and inhibition of nitric oxide in macrophages by new iron-containing carbon monoxide-releasing molecules (CO-RMs). <i>Pharmacological Research</i> , 2013, 68, 108-117.	7.1	28
69	Regulation of vascular tone in rabbit ophthalmic artery: Cross talk of endogenous and exogenous gas mediators. <i>Biochemical Pharmacology</i> , 2014, 92, 661-668.	4.4	26
70	Human Sickle Cell Blood Modulates Endothelial Heme Oxygenase Activity. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010, 30, 305-312.	2.4	25
71	Therapeutic effects of CO-releaser/Nrf2 activator hybrids (HYCOs) in the treatment of skin wound, psoriasis and multiple sclerosis. <i>Redox Biology</i> , 2020, 34, 101521.	9.0	24
72	Mitochondrial Metabolism as Target of the Neuroprotective Role of Erythropoietin in Parkinson's Disease. <i>Antioxidants</i> , 2021, 10, 121.	5.1	24

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73	The Interaction of Nitric Oxide with Distinct Hemoglobins Differentially Amplifies Endothelial Heme Uptake and Heme Oxygenase-1 Expression. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006, 317, 1125-1133.	2.5	20
74	Permanent Culture of Macrophages at Physiological Oxygen Attenuates the Antioxidant and Immunomodulatory Properties of Dimethyl Fumarate. <i>Journal of Cellular Physiology</i> , 2015, 230, 1128-1138.	4.1	19
75	Increased Sirt1 secreted from visceral white adipose tissue is associated with improved glucose tolerance in obese Nrf2-deficient mice. <i>Redox Biology</i> , 2021, 38, 101805.	9.0	16
76	Adipose tissue senescence is mediated by increased ATP content after a short-term high-fat diet exposure. <i>Aging Cell</i> , 2021, 20, e13421.	6.7	16
77	Isothiocyanate-cysteine conjugates protect renal tissue against cisplatin-induced apoptosis via induction of heme oxygenase-1. <i>Pharmacological Research</i> , 2014, 81, 1-9.	7.1	15
78	Design and Biological Evaluation of Manganese- and Ruthenium-Based Hybrid CO-RMs (HYCOs). <i>ChemMedChem</i> , 2019, 14, 1684-1691.	3.2	15
79	The Autoxidation of \pm Cross-Linked Hemoglobin: A Possible Role in the Oxidative Stress to Endothelium. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> , 1995, 23, 291-301.	0.9	14
80	CO-releasing molecules: avoiding toxicity and exploiting the beneficial effects of CO for the treatment of cardiovascular disorders. <i>Future Medicinal Chemistry</i> , 2013, 5, 367-369.	2.3	14
81	Genetic BACH1 deficiency alters mitochondrial function and increases NLRP3 inflammasome activation in mouse macrophages. <i>Redox Biology</i> , 2022, 51, 102265.	9.0	10
82	TLR4 Signaling and Heme Oxygenase-1/Carbon Monoxide Pathway Crosstalk Induces Resiliency of Myeloma Plasma Cells to Bortezomib Treatment. <i>Antioxidants</i> , 2022, 11, 767.	5.1	9
83	Effects of 3-Bromo-4,5-dihydroisoxazole Derivatives on Nrf2 Activation and Heme Oxygenase-1 Expression. <i>ChemistryOpen</i> , 2018, 7, 858-864.	1.9	8
84	Studies on the Development of Carbon Monoxide-Releasing Molecules. , 2001, , 249-271.		5
85	Heme oxygenase-1 in diabetic vascular dysfunction. <i>Vascular Pharmacology</i> , 2014, 62, 132-133.	2.1	3
86	O126: Pharmacological activities of CORM-401, a redox sensitive carbon monoxide-releasing molecule, in H9C2 cardiomyocytes. <i>Archives of Cardiovascular Diseases Supplements</i> , 2014, 6, 17.	0.0	2
87	Anti-inflammatory activities of carbon monoxide-releasing molecules (CO-RMs) in the brain. <i>SpringerPlus</i> , 2015, 4, L41.	1.2	2
88	Signaling by CO: Molecular and Cellular Functions. 2-Oxoglutarate-Dependent Oxygenases, 2018, , 161-191.	0.8	1
89	Nitric Oxide and the Heme Oxygenase/Carbon Monoxide System. , 2001, , 111-124.		1
90	CORM-401, an orally active carbon monoxide-releasing molecule, increases body temperature by activating non-shivering thermogenesis in rats. <i>Temperature</i> , 0, , 1-8.	3.0	1

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91	Metal Carbonyls: A New Class of Pharmaceuticals?. ChemInform, 2003, 34, no.	0.0	0
92	Effects of a carbon monoxide-releasing molecule on postischemic cardiac recovery. Journal of Molecular and Cellular Cardiology, 2006, 40, 963.	1.9	0
93	Carbon Monoxide Generated by Heme Oxygenase-1 Activity Confers Tolerogenic Capacity to Dendritic Cells. Clinical Immunology, 2007, 123, S181.	3.2	0
94	Heme Oxygenase in Skeletal Muscle. , 2002, , 205-213.		0
95	Heme Oxygenase and the Novel Tumour-Specific Anti-Vascular Compound Combretastatin A4-Phosphate. , 2002, , 303-312.		0