

Roberto A Motterlini

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

199
papers

16,964
citations

66
h-index

126
g-index

216
ext. papers

18,081
ext. citations

5.9
avg, IF

6.62
L-index

#	Paper	IF	Citations
199	Genetic BACH1 deficiency alters mitochondrial function and increases NLRP3 inflammasome activation in mouse macrophages.. <i>Redox Biology</i> , 2022 , 51, 102265	11.3	0
198	CO in Solid Organ Transplantation 2022 , 345-359		
197	CO as an Antiplatelet Agent 2022 , 453-465		0
196	Metal-Based Carbon Monoxide-Releasing Molecules (CO-RMs) as Pharmacologically Active Therapeutics 2022 , 203-222		
195	Inhibition of Adipose Tissue Beiging by HIV Integrase Inhibitors, Dolutegravir and Bictegravir, Is Associated with Adipocyte Hypertrophy, Hypoxia, Elevated Fibrosis, and Insulin Resistance in Simian Adipose Tissue and Human Adipocytes. <i>Cells</i> , 2022 , 11, 1841	7.9	1
194	Carbon Monoxide Releasing Molecule A1 Reduces Myocardial Damage After Acute Myocardial Infarction in a Porcine Model. <i>Journal of Cardiovascular Pharmacology</i> , 2021 , 78, e656-e661	3.1	1
193	Production of carbon monoxide from a He/CO ₂ plasma jet as a new strategy for therapeutic applications. <i>Plasma Processes and Polymers</i> , 2021 , 18, 2100069	3.4	3
192	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	11.3	4
191	LIPE-related lipodystrophic syndrome: clinical features and disease modeling using adipose stem cells. <i>European Journal of Endocrinology</i> , 2021 , 184, 155-168	6.5	14
190	Sensitive quantification of carbon monoxide in vivo reveals a protective role of circulating hemoglobin in CO intoxication. <i>Communications Biology</i> , 2021 , 4, 425	6.7	5
189	Adipose tissue senescence is mediated by increased ATP content after a short-term high-fat diet exposure. <i>Aging Cell</i> , 2021 , 20, e13421	9.9	1
188	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	11.3	16
187	The CO-releasing molecule CORM-3 protects adult cardiomyocytes against hypoxia-reoxygenation by modulating pH restoration. <i>European Journal of Pharmacology</i> , 2019 , 862, 172636	5.3	6
186	Heme oxygenase-1-Dependent anti-inflammatory effects of atorvastatin in zymosan-injected subcutaneous air pouch in mice. <i>PLoS ONE</i> , 2019 , 14, e0216405	3.7	11
185	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	7.8	20
184	Human and murine macrophages exhibit differential metabolic responses to lipopolysaccharide - A divergent role for glycolysis. <i>Redox Biology</i> , 2019 , 22, 101147	11.3	79
183	Design and Biological Evaluation of Manganese- and Ruthenium-Based Hybrid CO-RMs (HYCOs). <i>ChemMedChem</i> , 2019 , 14, 1684-1691	3.7	12

182	HYCO-3, a dual CO-releaser/Nrf2 activator, reduces tissue inflammation in mice challenged with lipopolysaccharide. <i>Redox Biology</i> , 2019 , 20, 334-348	11.3	38
181	MR (Mineralocorticoid Receptor) Induces Adipose Tissue Senescence and Mitochondrial Dysfunction Leading to Vascular Dysfunction in Obesity. <i>Hypertension</i> , 2019 , 73, 458-468	8.5	35
180	CORM-401 induces calcium signalling, NO increase and activation of pentose phosphate pathway in endothelial cells. <i>FEBS Journal</i> , 2018 , 285, 1346-1358	5.7	16
179	Carbon monoxide-induced metabolic switch in adipocytes improves insulin resistance in obese mice. <i>JCI Insight</i> , 2018 , 3,	9.9	31
178	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	9.9	30
177	Modulation of cellular bioenergetics by CO-releasing molecules and NO-donors inhibits the interaction of cancer cells with human lung microvascular endothelial cells. <i>Pharmacological Research</i> , 2018 , 136, 160-171	10.2	15
176	Carbon monoxide reverses the metabolic adaptation of microglia cells to an inflammatory stimulus. <i>Free Radical Biology and Medicine</i> , 2017 , 104, 311-323	7.8	44
175	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	12.7	122
174	Biological signaling by carbon monoxide and carbon monoxide-releasing molecules. <i>American Journal of Physiology - Cell Physiology</i> , 2017 , 312, C302-C313	5.4	136
173	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	16.4	30
172	Differential Effects of CORM-2 and CORM-401 in Murine Intestinal Epithelial MODE-K Cells under Oxidative Stress. <i>Frontiers in Pharmacology</i> , 2017 , 8, 31	5.6	25
171	Heme Oxygenase-1 and Carbon Monoxide in the Heart: The Balancing Act Between Danger Signaling and Pro-Survival. <i>Circulation Research</i> , 2016 , 118, 1940-1959	15.7	121
170	Vascular and angiogenic activities of CORM-401, an oxidant-sensitive CO-releasing molecule. <i>Biochemical Pharmacology</i> , 2016 , 102, 64-77	6	58
169	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, 756-62	8.3	48
168	Study of Dense Red Blood Cells in Children with Sickle Cell Disease. <i>Blood</i> , 2016 , 128, 4870-4870	2.2	
167	Carbon monoxide shifts energetic metabolism from glycolysis to oxidative phosphorylation in endothelial cells. <i>FEBS Letters</i> , 2016 , 590, 3469-3480	3.8	22
166	Unusual Dynamics of Ligand Binding to the Heme Domain of the Bacterial CO Sensor Protein RcoM-2. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 10686-10694	3.4	7
165	Permanent culture of macrophages at physiological oxygen attenuates the antioxidant and immunomodulatory properties of dimethyl fumarate. <i>Journal of Cellular Physiology</i> , 2015 , 230, 1128-38	7	17

164	Antioxidant potential of CORM-A1 and resveratrol during TNF- α -cycloheximide-induced oxidative stress and apoptosis in murine intestinal epithelial MODE-K cells. <i>Toxicology and Applied Pharmacology</i> , 2015 , 288, 161-78	4.6	31
163	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, 1297-309	4.6	54
162	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	10.2	53
161	CO and CO-releasing molecules (CO-RMs) in acute gastrointestinal inflammation. <i>British Journal of Pharmacology</i> , 2015 , 172, 1557-73	8.6	37
160	Anti-inflammatory activities of carbon monoxide-releasing molecules (CO-RMs) in the brain. <i>SpringerPlus</i> , 2015 , 4, L41		0
159	Isothiocyanate-cysteine conjugates protect renal tissue against cisplatin-induced apoptosis via induction of heme oxygenase-1. <i>Pharmacological Research</i> , 2014 , 81, 1-9	10.2	12
158	Heme oxygenase-1 as a target for drug discovery. <i>Antioxidants and Redox Signaling</i> , 2014 , 20, 1810-26	8.4	141
157	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, 14698-704	4.8	44
156	Heme oxygenase-1: an emerging therapeutic target to curb cardiac pathology. <i>Basic Research in Cardiology</i> , 2014 , 109, 450	11.8	32
155	CORM-3, a water soluble CO-releasing molecule, uncouples mitochondrial respiration via interaction with the phosphate carrier. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014 , 1837, 201-9	4.6	35
154	P21-dependent protective effects of a carbon monoxide-releasing molecule-3 in pulmonary hypertension. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014 , 34, 304-12	9.4	32
153	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, 132-48	10.2	122
152	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, 108-17	10.2	26
151	Treatment with carbon monoxide-releasing molecules and an HO-1 inducer enhances the effects and expression of μ -opioid receptors during neuropathic pain. <i>Anesthesiology</i> , 2013 , 118, 1180-97	4.3	52
150	Acute myocardial infarction in streptozotocin-induced hyperglycaemic rats: protection by a carbon monoxide-releasing molecule (CORM-3). <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2012 , 385, 137-44	3.4	18
149	Relaxant effect of a water soluble carbon monoxide-releasing molecule (CORM-3) on spontaneously hypertensive rat aortas. <i>Cardiovascular Drugs and Therapy</i> , 2012 , 26, 285-92	3.9	19
148	Differential antibacterial activity against <i>Pseudomonas aeruginosa</i> by carbon monoxide-releasing molecules. <i>Antioxidants and Redox Signaling</i> , 2012 , 16, 153-63	8.4	84
147	Carbon monoxide induces a late preconditioning-mimetic cardioprotective and antiapoptotic milieu in the myocardium. <i>Journal of Molecular and Cellular Cardiology</i> , 2012 , 52, 228-36	5.8	64

146	New Types of CO-Releasing Molecules (CO-RMs), Based on Iron Dithiocarbamate Complexes and [Fe(CO)3I(S2COEt)]. <i>Organometallics</i> , 2012 , 31, 5823-5834	3.8	27
145	Emerging concepts on the anti-inflammatory actions of carbon monoxide-releasing molecules (CO-RMs). <i>Medical Gas Research</i> , 2012 , 2, 28	2.2	67
144	The carbon monoxide releasing molecule CORM-2 attenuates <i>Pseudomonas aeruginosa</i> biofilm formation. <i>PLoS ONE</i> , 2012 , 7, e35499	3.7	42
143	Carbon monoxide reduces neuropathic pain and spinal microglial activation by inhibiting nitric oxide synthesis in mice. <i>PLoS ONE</i> , 2012 , 7, e43693	3.7	62
142	Theoretical insights into the mechanism of carbon monoxide (CO) release from CO-releasing molecules. <i>Chemistry - A European Journal</i> , 2012 , 18, 9267-75	4.8	21
141	Inhibition of platelet aggregation by carbon monoxide-releasing molecules (CO-RMs): comparison with NO donors. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2012 , 385, 641-50	3.4	39
140	Downregulation of the inflammatory response by CORM-3 results in protective effects in a model of postmenopausal arthritis. <i>Calcified Tissue International</i> , 2012 , 91, 69-80	3.9	12
139	Antithrombotic properties of water-soluble carbon monoxide-releasing molecules. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012 , 32, 2149-57	9.4	47
138	TNF- α -cycloheximide-induced oxidative stress and apoptosis in murine intestinal epithelial MODE-K cells. <i>Current Pharmaceutical Design</i> , 2012 , 18, 4414-25	3.3	21
137	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, 544-52	1.4	82
136	Carbon monoxide improves cardiac function and mitochondrial population quality in a mouse model of metabolic syndrome. <i>PLoS ONE</i> , 2012 , 7, e41836	3.7	47
135	Modification of the deoxy-myoglobin/carbonmonoxy-myoglobin UV-vis assay for reliable determination of CO-release rates from organometallic carbonyl complexes. <i>Dalton Transactions</i> , 2011 , 40, 5755-61	4.3	139
134	Prevention of clinical and histological signs of proteolipid protein (PLP)-induced experimental allergic encephalomyelitis (EAE) in mice by the water-soluble carbon monoxide-releasing molecule (CORM)-A1. <i>Clinical and Experimental Immunology</i> , 2011 , 163, 368-74	6.2	57
133	A carbon monoxide-releasing molecule (CORM-3) uncouples mitochondrial respiration and modulates the production of reactive oxygen species. <i>Free Radical Biology and Medicine</i> , 2011 , 50, 1556-64	7.8	108
132	The carbon monoxide-releasing molecule, CORM-3 (RU(CO)(3) CL(glycinate)), targets respiration and oxidases in <i>Campylobacter jejuni</i> , generating hydrogen peroxide. <i>IUBMB Life</i> , 2011 , 63, 363-71	4.7	32
131	A re-investigation of [Fe(L-cysteinate)2(CO)2]2-: an example of non-heme CO coordination of possible relevance to CO binding to ion channel receptors. <i>Dalton Transactions</i> , 2011 , 40, 8328-34	4.3	28
130	[Mn(CO)4{S2CNMe(CH2CO2H)}], a new water-soluble CO-releasing molecule. <i>Dalton Transactions</i> , 2011 , 40, 4230-5	4.3	113
129	Heme Oxygenase 1-Induced Resistance to Imatinib In Chronic Myelogenous Leukemia Cells. <i>Blood</i> , 2011 , 118, 4410-4410	2.2	

128	The therapeutic potential of carbon monoxide. <i>Nature Reviews Drug Discovery</i> , 2010 , 9, 728-43	64.1	1061
127	Human sickle cell blood modulates endothelial heme oxygenase activity: effects on vascular adhesion and reactivity. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010 , 30, 305-12	9.4	20
126	Relationship between leukocyte kinetics and behavioral tests changes in the inflammatory process of hemorrhagic stroke recovery. <i>International Journal of Neuroscience</i> , 2010 , 120, 765-73	2	14
125	Hemin prevents in-stent stenosis in rat and rabbit models by inducing heme-oxygenase-1. <i>Journal of Vascular Surgery</i> , 2010 , 51, 417-28	3.5	29
124	Iron indenyl carbonyl compounds: CO-releasing molecules. <i>Dalton Transactions</i> , 2010 , 39, 8967-75	4.3	37
123	Polyamine conjugation of curcumin analogues toward the discovery of mitochondria-directed neuroprotective agents. <i>Journal of Medicinal Chemistry</i> , 2010 , 53, 7264-8	8.3	32
122	The CO-releasing molecule CORM-3 protects against articular degradation in the K/BxN serum transfer arthritis model. <i>European Journal of Pharmacology</i> , 2010 , 634, 184-91	5.3	33
121	Syntheses, structural characterization and CO releasing properties of boranocarbonate [H3BCO2H]- derivatives. <i>Organic and Biomolecular Chemistry</i> , 2010 , 8, 4849-54	3.9	65
120	CO liberated from a carbon monoxide-releasing molecule exerts a positive inotropic effect in doxorubicin-induced cardiomyopathy. <i>Journal of Cardiovascular Pharmacology</i> , 2010 , 55, 168-75	3.1	10
119	Induction of heme oxygenase-1 in factor VIII-deficient mice reduces the immune response to therapeutic factor VIII. <i>Blood</i> , 2010 , 115, 2682-5	2.2	25
118	Morphine-induced ocular hypotension is modulated by nitric oxide and carbon monoxide: role of mu3 receptors. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2010 , 26, 31-5	2.6	16
117	Interaction of carbon monoxide with transition metals: evolutionary insights into drug target discovery. <i>Current Drug Targets</i> , 2010 , 11, 1595-604	3	44
116	Carbon monoxide rescues mice from lethal sepsis by supporting mitochondrial energetic metabolism and activating mitochondrial biogenesis. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009 , 329, 641-8	4.7	155
115	Carbon monoxide-releasing antibacterial molecules target respiration and global transcriptional regulators. <i>Journal of Biological Chemistry</i> , 2009 , 284, 4516-24	5.4	118
114	Water-soluble CO-releasing molecules reduce the development of postoperative ileus via modulation of MAPK/HO-1 signalling and reduction of oxidative stress. <i>Gut</i> , 2009 , 58, 347-56	19.2	95
113	Effects of carbon monoxide on trout and lamprey vessels. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009 , 296, R141-9	3.2	14
112	Carbon monoxide rapidly impairs alveolar fluid clearance by inhibiting epithelial sodium channels. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2009 , 41, 639-50	5.7	57
111	A water-soluble carbon monoxide-releasing molecule (CORM-3) lowers intraocular pressure in rabbits. <i>British Journal of Ophthalmology</i> , 2009 , 93, 254-7	5.5	25

110	Carbon monoxide inhibits TLR-induced dendritic cell immunogenicity. <i>Journal of Immunology</i> , 2009 , 182, 1877-84	5.3	102
109	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, 1023-31	0.9	118
108	Measuring left ventricular function in the normal, infarcted and CORM-3-preconditioned mouse heart using complex admittance-derived pressure volume loops. <i>Journal of Pharmacological and Toxicological Methods</i> , 2009 , 59, 94-9	1.7	25
107	In vitro and in vivo effects of the carbon monoxide-releasing molecule, CORM-3, in the xenogeneic pig-to-primate context. <i>Xenotransplantation</i> , 2009 , 16, 99-114	2.8	30
106	Mu ₂ -alkyne dicobalt(0)hexacarbonyl complexes as carbon monoxide-releasing molecules (CO-RMs): probing the release mechanism. <i>Dalton Transactions</i> , 2009 , 3653-6	4.3	74
105	Protective effects of a carbon monoxide-releasing molecule (CORM-3) during hepatic cold preservation. <i>Cryobiology</i> , 2009 , 58, 248-55	2.7	48
104	Carbon monoxide in biology and microbiology: surprising roles for the "Detroit perfume". <i>Advances in Microbial Physiology</i> , 2009 , 56, 85-167	4.4	28
103	Donor HO-1 expression inhibits intimal hyperplasia in unmanipulated graft recipients: a potential role for CD8+ T-cell modulation by carbon monoxide. <i>Transplantation</i> , 2009 , 88, 653-61	1.8	17
102	Structure-activity relationships of methoxychalcones as inducers of heme oxygenase-1. <i>Chemical Research in Toxicology</i> , 2008 , 21, 1484-94	4	43
101	cGMP produced by NO-sensitive guanylyl cyclase essentially contributes to inflammatory and neuropathic pain by using targets different from cGMP-dependent protein kinase I. <i>Journal of Neuroscience</i> , 2008 , 28, 8568-76	6.6	82
100	Carbon monoxide-releasing molecules: a pharmacological expedient to counteract inflammation. <i>Current Pharmaceutical Design</i> , 2008 , 14, 465-72	3.3	42
99	A carbon monoxide-releasing molecule (CORM-3) abrogates polymorphonuclear granulocyte-induced activation of endothelial cells and mast cells. <i>FASEB Journal</i> , 2008 , 22, 3380-8	0.9	27
98	Derivatives of Sodium Boranocarbonate as Novel CO-Releasing Molecules (CO-RMs). <i>Chimia</i> , 2008 , 62, 277-279	1.3	22
97	Treatment with a CO-releasing molecule (CORM-3) reduces joint inflammation and erosion in murine collagen-induced arthritis. <i>Annals of the Rheumatic Diseases</i> , 2008 , 67, 1211-7	2.4	66
96	Use of carbon monoxide as a therapeutic agent: promises and challenges. <i>Intensive Care Medicine</i> , 2008 , 34, 649-58	14.5	716
95	A cytoprotective role for the heme oxygenase-1/CO pathway during neural differentiation of human mesenchymal stem cells. <i>Journal of Neuroscience Research</i> , 2008 , 86, 1927-35	4.4	29
94	Chemistry and biological activities of CO-releasing molecules (CORMs) and transition metal complexes. <i>Dalton Transactions</i> , 2007 , 1651-60	4.3	167
93	CO and NO in medicine. <i>Chemical Communications</i> , 2007 , 4197-208	5.8	138

92	Metal carbonyls as pharmaceuticals? [Ru(CO) ₃ Cl(glycinate)], a CO-releasing molecule with an extensive aqueous solution chemistry. <i>Dalton Transactions</i> , 2007 , 1500-8	4.3	139
91	Effectiveness of novel imidazole-dioxolane heme oxygenase inhibitors in renal proximal tubule epithelial cells. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2007 , 323, 763-70	4.7	23
90	Eta(1)-2-pyrone metal carbonyl complexes as CO-releasing molecules (CO-RMs): a delicate balance between stability and CO liberation. <i>Dalton Transactions</i> , 2007 , 3603-5	4.3	62
89	Carbon monoxide-mediated activation of large-conductance calcium-activated potassium channels contributes to mesenteric vasodilatation in cirrhotic rats. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2007 , 321, 187-94	4.7	58
88	Curcumin reduces cold storage-induced damage in human cardiac myoblasts. <i>Experimental and Molecular Medicine</i> , 2007 , 39, 139-48	12.8	23
87	Mitochondrial and cellular heme-dependent proteins as targets for the bioactive function of the heme oxygenase/carbon monoxide system. <i>Antioxidants and Redox Signaling</i> , 2007 , 9, 2139-55	8.4	51
86	Carbon monoxide-releasing molecules modulate leukocyte-endothelial interactions under flow. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2007 , 321, 656-62	4.7	82
85	Carbon monoxide-releasing molecules (CO-RMs): vasodilatory, anti-ischaemic and anti-inflammatory activities. <i>Biochemical Society Transactions</i> , 2007 , 35, 1142-6	5.1	141
84	Beneficial effects of carbon monoxide-releasing molecules on post-ischemic myocardial recovery. <i>Life Sciences</i> , 2007 , 80, 1619-26	6.8	45
83	Improved myocardial function after cold storage with preservation solution supplemented with a carbon monoxide-releasing molecule (CORM-3). <i>Journal of Heart and Lung Transplantation</i> , 2007 , 26, 1192-8	5.8	48
82	[(Eta-C ₅ H ₄ R)Fe(CO) ₂ X], X = Cl, Br, I, NO ₃ , CO ₂ Me and [(eta-C ₅ H ₄ R)Fe(CO) ₃] ⁺ , R = (CH ₂) _n CO ₂ Me (n = 0-2), and CO ₂ CH ₂ CH ₂ OH: a new group of CO-releasing molecules. <i>Dalton Transactions</i> , 2007 , 4962-73	4.3	54
81	Evaluation of the effects of a novel carbon monoxide releasing molecule (CORM-3) in an in vitro model of cardiovascular inflammation. 1. Histamine in allergy, inflammation, tissue growth and repair. <i>Inflammation Research</i> , 2006 , 55 Suppl 1, S05-6	7.2	7
80	CO-metal interaction: Vital signaling from a lethal gas. <i>Trends in Biochemical Sciences</i> , 2006 , 31, 614-21	10.3	150
79	Protection against cisplatin-induced nephrotoxicity by a carbon monoxide-releasing molecule. <i>American Journal of Physiology - Renal Physiology</i> , 2006 , 290, F789-94	4.3	108
78	Carbon monoxide released by CORM-3 inhibits human platelets by a mechanism independent of soluble guanylate cyclase. <i>Cardiovascular Research</i> , 2006 , 71, 393-401	9.9	87
77	Bioactive properties of iron-containing carbon monoxide-releasing molecules. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006 , 318, 403-10	4.7	73
76	Modulation of thrombin-induced neuroinflammation in BV-2 microglia by carbon monoxide-releasing molecule 3. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006 , 318, 1315-22	4.7	73
75	Role of carbon monoxide and biliverdin in renal ischemia/reperfusion injury. <i>Nephron Experimental Nephrology</i> , 2006 , 104, e135-9		16

74	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, 1125-33	4.7	19
73	Heme oxygenase-1 mediates the anti-inflammatory actions of 2Rhydroxychalcone in RAW 264.7 murine macrophages. <i>American Journal of Physiology - Cell Physiology</i> , 2006 , 290, C1092-9	5.4	64
72	Positive inotropic effects of carbon monoxide-releasing molecules (CO-RMs) in the isolated perfused rat heart. <i>British Journal of Pharmacology</i> , 2006 , 149, 1104-12	8.6	39
71	Treatment with CO-RMs during cold storage improves renal function at reperfusion. <i>Kidney International</i> , 2006 , 69, 239-47	9.9	105
70	Eta4-pyrone iron(0)carbonyl complexes as effective CO-releasing molecules (CO-RMs). <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006 , 16, 995-8	2.9	64
69	A carbon monoxide-releasing molecule (CORM-3) attenuates lipopolysaccharide- and interferon-gamma-induced inflammation in microglia. <i>Pharmacological Reports</i> , 2006 , 58 Suppl, 132-44	3.9	14
68	Differential activation of heme oxygenase-1 by chalcones and rosolic acid in endothelial cells. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2005 , 312, 686-93	4.7	87
67	Administration of a CO-releasing molecule induces late preconditioning against myocardial infarction. <i>Journal of Molecular and Cellular Cardiology</i> , 2005 , 38, 127-34	5.8	114
66	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, 800-10	8.6	298
65	Mitochondrial respiratory chain and NAD(P)H oxidase are targets for the antiproliferative effect of carbon monoxide in human airway smooth muscle. <i>Journal of Biological Chemistry</i> , 2005 , 280, 25350-60	5.4	198
64	CORM-A1: a new pharmacologically active carbon monoxide-releasing molecule. <i>FASEB Journal</i> , 2005 , 19, 284-6	0.9	296
63	Therapeutic applications of carbon monoxide-releasing molecules. <i>Expert Opinion on Investigational Drugs</i> , 2005 , 14, 1305-18	5.9	237
62	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, 1890-2	0.9	193
61	Generation of bile pigments by haem oxygenase: a refined cellular strategy in response to stressful insults. <i>Biochemical Society Symposia</i> , 2004 , 71, 177-92		57
60	Administration of a CO-releasing molecule at the time of reperfusion reduces infarct size in vivo. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004 , 286, H1649-53	5.2	175
59	Vasoactive properties of CORM-3, a novel water-soluble carbon monoxide-releasing molecule. <i>British Journal of Pharmacology</i> , 2004 , 142, 453-60	8.6	239
58	Curcumin activates the haem oxygenase-1 gene via regulation of Nrf2 and the antioxidant-responsive element. <i>Biochemical Journal</i> , 2003 , 371, 887-95	3.8	838
57	Haem and nitric oxide: synergism in the modulation of the endothelial haem oxygenase-1 pathway. <i>Biochemical Journal</i> , 2003 , 372, 381-90	3.8	57

56	Bioactivity and pharmacological actions of carbon monoxide-releasing molecules. <i>Current Pharmaceutical Design</i> , 2003 , 9, 2525-39	3.3	217
55	Cardioprotective actions by a water-soluble carbon monoxide-releasing molecule. <i>Circulation Research</i> , 2003 , 93, e2-8	15.7	535
54	Nitric oxide synthase type I (nNOS), vascular endothelial growth factor (VEGF) and myoglobin-like expression in skeletal muscle of Antarctic icefishes (Notothenioidei: Channichthyidae). <i>Polar Biology</i> , 2003 , 26, 458-462	2	14
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