Bernd Mayer

List of Publications by Year
in descending order

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329 papers	22,591 citations	6613 79 h-index	11052 137 g-index
334 all docs	334 docs citations	334 times ranked	13391 citing authors

#	Article	IF	Citations
1	Potent and selective inhibition of nitric oxide-sensitive guanylyl cyclase by 1H-[1,2,4]oxadiazolo[4,3-a]quinoxalin-1-one. Molecular Pharmacology, 1995, 48, 184-8.	2.3	881
2	ATGL-mediated fat catabolism regulates cardiac mitochondrial function via PPAR-Î± and PGC-1. Nature Medicine, 2011, 17, 1076-1085.	30.7	612
3	Enzymatic function of nitric oxide synthases. Cardiovascular Research, 1999, 43, 521-531.	3.8	585
4	Biosynthesis and action of nitric oxide in mammalian cells. Trends in Biochemical Sciences, 1997, 22, 477-481.	7.5	553
5	Ca2+/calmodulin-dependent formation of hydrogen peroxide by brain nitric oxide synthase. Biochemical Journal, 1992, 281, 627-630.	3.7	545
6	Inhibition of nitric oxide synthesis by methylene blue. Biochemical Pharmacology, 1993, 45, 367-374.	4.4	461
7	Purification of a Ca2+/calmodulin-dependent nitric oxide synthase from porcine cerebellum. FEBS Letters, 1990, 277, 215-219.	2.8	420
8	Brain nitric oxide synthase is a biopterin- and flavin-containing multi-functional oxido-reductase. FEBS Letters, 1991, 288, 187-191.	2.8	386
9	Tetrahydrobiopterin Improves Endothelium-Dependent Vasodilation in Chronic Smokers. Circulation Research, 2000, 86, E36-41.	4.5	374
10	l-Ascorbic Acid Potentiates Endothelial Nitric Oxide Synthesis via a Chemical Stabilization of Tetrahydrobiopterin. Journal of Biological Chemistry, 2001, 276, 40-47.	3.4	367
11	Characterization of 1H-[1,2,4]oxadiazolo[4,3-a]quinoxalin-1-one as a heme-site inhibitor of nitric oxide-sensitive guanylyl cyclase. Molecular Pharmacology, 1996, 50, 1-5.	2.3	317
12	Metabolic Fate of Peroxynitrite in Aqueous Solution. Journal of Biological Chemistry, 1997, 272, 3465-3470.	3.4	288
13	Expression of nitric oxide synthase in kidney macula densa cells. Kidney International, 1992, 42, 1017-1019.	5.2	269
14	Biosynthesis of endothelium-derived relaxing factor: A cytosolic enzyme in porcine aortic endothelial cells Ca2+-dependently converts L-arginine into an activator of soluble guanylyl cyclase. Biochemical and Biophysical Research Communications, 1989, 164, 678-685.	2.1	265
15	Structural analysis of porcine brain nitric oxide synthase reveals a role for tetrahydrobiopterin and L-arginine in the formation of an SDS-resistant dimer.. EMBO Journal, 1995, 14, 3687-3695.	7.8	262
16	Nitric Oxide: Chemical Puzzles Posed by a Biological Messenger. Angewandte Chemie - International Edition, 1999, 38, 1714-1731.	13.8	256
17	Multiple catalytic functions of brain nitric oxide synthase. Biochemical characterization, cofactor-requirement, and the role of N omega-hydroxy-L-arginine as an intermediate. Journal of Biological Chemistry, 1993, 268, 14781-14787.	3.4	236
18	How much nicotine kills a human? Tracing back the generally accepted lethal dose to dubious self-experiments in the nineteenth century. Archives of Toxicology, 2014, 88, 5-7.	4.2	221

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19	The pteridine binding site of brain nitric oxide synthase. Tetrahydrobiopterin binding kinetics, specificity, and allosteric interaction with the substrate domain.. Journal of Biological Chemistry, 1994, 269, 13861-13866.	3.4	202
20	Inhibition of nitric oxide synthesis by N^Gâ€nitroâ€Lâ€arginine methyl ester (Lâ€NAME): requirement for bioactivation to the free acid, N^Gâ€nitroâ€Lâ€arginine. British Journal of Pharmacology, 1996, 118, 1433-1440.	5.4	199
21	Ca2+/calmodulin-dependent cytochrome c reductase activity of brain nitric oxide synthase.. Journal of Biological Chemistry, 1992, 267, 11374-11378.	3.4	198
22	Nitric oxide synthase-containing neural processes on large cerebral arteries and cerebral microvessels. Brain Research, 1993, 606, 148-155.	2.2	196
23	Nitric oxide synthase in cardiac nerve fibers and neurons of rat and guinea pig heart.. Circulation Research, 1992, 71, 1533-1537.	4.5	190
24	A New Pathway of Nitric Oxide/Cyclic GMP Signaling InvolvingS-Nitrosoglutathione. Journal of Biological Chemistry, 1998, 273, 3264-3270.	3.4	188
25	Peroxynitrite-induced Accumulation of Cyclic GMP in Endothelial Cells and Stimulation of Purified Soluble Guanylyl Cyclase. Journal of Biological Chemistry, 1995, 270, 17355-17360.	3.4	181
26	Long-lasting increase of nitric oxide synthase immunoreactivity, NADPH-diaphorase reaction and c-JUN co-expression in rat dorsal root ganglion neurons following sciatic nerve transection. Neuroscience Letters, 1993, 150, 169-173.	2.1	176
27	Decomposition ofS-Nitrosoglutathione in the Presence of Copper Ions and Glutathione. Archives of Biochemistry and Biophysics, 1996, 330, 219-228.	3.0	172
28	Long-lasting expression of JUN and KROX transcription factors and nitric oxide synthase in intrinsic neurons of the rat brain following axotomy. Journal of Neuroscience, 1993, 13, 4130-4145.	3.6	171
29	Ca2+/calmodulin-dependent cytochrome c reductase activity of brain nitric oxide synthase. Journal of Biological Chemistry, 1992, 267, 11374-8.	3.4	170
30	Characterization of Heme-deficient Neuronal Nitric-oxide Synthase Reveals a Role for Heme in Subunit Dimerization and Binding of the Amino Acid Substrate and Tetrahydrobiopterin. Journal of Biological Chemistry, 1996, 271, 7336-7342.	3.4	169
31	The pteridine binding site of brain nitric oxide synthase. Tetrahydrobiopterin binding kinetics, specificity, and allosteric interaction with the substrate domain. Journal of Biological Chemistry, 1994, 269, 13861-6.	3.4	169
32	Nitric oxide synthase in guinea pig lower airway innervation. Neuroscience Letters, 1993, 149, 157-160.	2.1	168
33	Multiple catalytic functions of brain nitric oxide synthase. Biochemical characterization, cofactor-requirement, and the role of N omega-hydroxy-L-arginine as an intermediate. Journal of Biological Chemistry, 1993, 268, 14781-7.	3.4	168
34	Characterization of the Inducible Nitric Oxide Synthase Oxygenase Domain Identifies a 49 Amino Acid Segment Required for Subunit Dimerization and Tetrahydrobiopterin Interactionâ€. Biochemistry, 1997, 36, 10609-10619.	2.5	161
35	Tetrahydrobiopterin-dependent formation of endothelium-derived relaxing factor (nitric oxide) in aortic endothelial cells. Biochemical Journal, 1992, 281, 297-300.	3.7	159
36	Purification of soluble guanylyl cyclase from bovine lung by a new immunoaffinity chromatographic method. FEBS Journal, 1990, 190, 273-278.	0.2	158

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37	Lack of Tyrosine Nitration by Peroxynitrite Generated at Physiological pH. Journal of Biological Chemistry, 1998, 273, 27280-27285.	3.4	158
38	Reaction of Neuronal Nitric-oxide Synthase with Oxygen at Low Temperature. Journal of Biological Chemistry, 1998, 273, 13502-13508.	3.4	158
39	Tetrahydrobiopterin-Free Neuronal Nitric Oxide Synthase:Â Evidence for Two Identical Highly Anticooperative Pteridine Binding Sitesâ€. Biochemistry, 1996, 35, 16735-16745.	2.5	152
40	Protein tyrosine nitration in mouse peritoneal macrophages activated in vitro and in vivo: evidence against an essential role of peroxynitrite. FASEB Journal, 2001, 15, 2355-2364.	0.5	152
41	Characterization of bovine endothelial nitric oxide synthase as a homodimer with down-regulated uncoupled NADPH oxidase activity: tetrahydrobiopterin binding kinetics and role of haem in dimerization. Biochemical Journal, 1997, 323, 159-165.	3.7	151
42	Brain nitric oxide synthase is a haemoprotein. Biochemical Journal, 1992, 288, 15-17.	3.7	146
43	Nitric oxide synthase in VIP-containing vasodilator nerve fibres in the Guineapig. NeuroReport, 1992, 3, 653.	1.2	145
44	Dityrosine Formation Outcompetes Tyrosine Nitration at Low Steady-state Concentrations of Peroxynitrite. Journal of Biological Chemistry, 2000, 275, 6346-6352.	3.4	143
45	Molecular mechanisms of inhibition of porcine brain nitric oxide synthase by the antinociceptive drug 7-nitro-indazole. Neuropharmacology, 1994, 33, 1253-1259.	4.1	141
46	Protein Tyrosine Nitration in Cytokine-activated Murine Macrophages. Journal of Biological Chemistry, 2001, 276, 34051-34058.	3.4	141
47	Regulation of Neuronal Nitric Oxide and Cyclic GMP Formation by Ca²⁺. Journal of Neurochemistry, 1992, 59, 2024-2029.	3.9	141
48	Kinetics and Mechanism of Tetrahydrobiopterin-induced Oxidation of Nitric Oxide. Journal of Biological Chemistry, 1995, 270, 655-659.	3.4	138
49	Inhibitors of brain nitric oxide synthase. Binding kinetics, metabolism, and enzyme inactivation.. Journal of Biological Chemistry, 1994, 269, 1674-1680.	3.4	138
50	Tetrahydrobiopterin and Nitric Oxide: Mechanistic and Pharmacological Aspects. Experimental Biology and Medicine, 2003, 228, 1291-1302.	2.4	130
51	Functional and Analytical Evidence for Scavenging of Oxygen Radicals by l-Arginine. Molecular Pharmacology, 2002, 61, 1081-1088.	2.3	124
52	Nitric oxide synthase immunoreactive neurons anatomically define a longitudinal dorsolateral column within the midbrain periaqueductal gray of the rat: analysis using laser confocal microscopy. Brain Research, 1993, 610, 317-324.	2.2	123
53	S-nitrosation of glutathione by nitric oxide, peroxynitrite, and â€¢NO/O2â€¢â˜. Free Radical Biology and Medicine, 2003, 34, 1078-1088.	2.9	121
54	In search of a function for tetrahydrobiopterin in the biosynthesis of nitric oxide. Naunyn-Schmiedeberg's Archives of Pharmacology, 1995, 351, 453-63.	3.0	119

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55	Attenuation of myocardial ischemia/reperfusion injury in mice with myocyte-specific overexpression of endothelial nitric oxide synthase. Cardiovascular Research, 2003, 57, 55-62.	3.8	119
56	Inhibitors of brain nitric oxide synthase. Binding kinetics, metabolism, and enzyme inactivation. Journal of Biological Chemistry, 1994, 269, 1674-80.	3.4	118
57	Nitric oxide synthase immunoreactivity in the enteric nervous system of the developing human digestive tract. Cell and Tissue Research, 1994, 275, 235-245.	2.9	114
58	Multiple populations of neuropeptide-containing intrinsic neurons in the guinea-pig heart. Neuroscience, 1994, 62, 241-250.	2.3	114
59	Expression of nitric oxide synthase and colocalisation with Jun, Fos and Krox transcription factors in spinal cord neurons following noxious stimulation of the rat hindpaw. Molecular Brain Research, 1994, 22, 245-258.	2.3	113
60	Myocardial Contractile Function and Heart Rate in Mice With Myocyte-Specific Overexpression of Endothelial Nitric Oxide Synthase. Circulation, 2001, 104, 3097-3102.	1.6	112
61	Tetrahydrobiopterin Binding to Macrophage Inducible Nitric Oxide Synthase:â€‰ Heme Spin Shift and Dimer Stabilization by the Potent Pterin Antagonist 4-Amino-Tetrahydrobiopterin. Biochemistry, 1997, 36, 8422-8427.	2.5	111
62	Nitric-oxide synthase: A cytochrome P450 family foster child. Biochimica Et Biophysica Acta - General Subjects, 2007, 1770, 432-445.	2.4	110
63	The enigma of nitroglycerin bioactivation and nitrate tolerance: news, views and troubles. British Journal of Pharmacology, 2008, 155, 170-184.	5.4	98
64	Formation of a protonated trihydrobiopterin radical cation in the first reaction cycle of neuronal and endothelial nitric oxide synthase detected by electron paramagnetic resonance spectroscopy. Journal of Biological Inorganic Chemistry, 2001, 6, 151-158.	2.6	93
65	Tetrahydrobiopterin in Nitric Oxide Synthesis: A Novel Biological Role for Pteridines. Current Drug Metabolism, 2002, 3, 133-157.	1.2	91
66	Nitric oxide synthase is found in some spinothalamic neurons and in neuronal processes that appose spinal neurons that express Fos induced by noxious stimulation. Brain Research, 1993, 608, 324-333.	2.2	90
67	Nitric oxide synthase in the brain of the turtle Pseudemys scripta elegans. Journal of Comparative Neurology, 1994, 348, 183-206.	1.6	90
68	Role of Bound Zinc in Dimer Stabilization but Not Enzyme Activity of Neuronal Nitric-oxide Synthase. Journal of Biological Chemistry, 2000, 275, 35786-35791.	3.4	90
69	Identification of the 4-amino analogue of tetrahydrobiopterin as a dihydropteridine reductase inhibitor and a potent pteridine antagonist of rat neuronal nitric oxide synthase. Biochemical Journal, 1996, 320, 193-196.	3.7	89
70	Structural analysis of porcine brain nitric oxide synthase reveals a role for tetrahydrobiopterin and L-arginine in the formation of an SDS-resistant dimer. EMBO Journal, 1995, 14, 3687-95.	7.8	89
71	Effect of calcium on endothelium-derived relaxing factor formation and cGMP levels in endothelial cells. European Journal of Pharmacology, 1989, 170, 157-166.	3.5	88
72	Patterns of Mobilization of Copper and Iron Following Myocardial Ischemia: Possible Predictive Criteria for Tissue Injury. Journal of Molecular and Cellular Cardiology, 1997, 29, 3025-3034.	1.9	88

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73	Na+/Ca2+ Exchange Facilitates Ca2+-dependent Activation of Endothelial Nitric-oxide Synthase. Journal of Biological Chemistry, 1999, 274, 29529-29535.	3.4	87
74	Contribution of aldehyde dehydrogenase to mitochondrial bioactivation of nitroglycerin: evidence for the activation of purified soluble guanylate cyclase through direct formation of nitric oxide. Biochemical Journal, 2005, 385, 769-777.	3.7	86
75	Histochemical and immunocytochemical localization of nitric oxide synthase in the central nervous system of the goldfish, Carassius auratus. Journal of Comparative Neurology, 1995, 358, 353-382.	1.6	85
76	Nitric Oxide Synthase(NOS-I) in Leydig Cells of the Human Testis.. Archives of Histology and Cytology, 1995, 58, 17-30.	0.2	84
77	Species-independent expression of nitric oxide synthase in the sarcolemma region of visceral and somatic striated muscle fibers. Cell and Tissue Research, 1995, 281, 493-499.	2.9	82
78	Species differences in choroidal vasodilative innervation: evidence for specific intrinsic nitrergic and VIP-positive neurons in the human eye. Investigative Ophthalmology and Visual Science, 1994, 35, 592-9.	3.3	81
79	Interference of Carboxy-PTIO with Nitric Oxide- and Peroxynitrite-Mediated Reactions. Free Radical Biology and Medicine, 1997, 22, 787-794.	2.9	80
80	Release of nitric oxide from donors with known half-life: a mathematical model for calculating nitric oxide concentrations in aerobic solutions. Naunyn-Schmiedeberg's Archives of Pharmacology, 1997, 355, 457-462.	3.0	79
81	Assessment of nitric oxide synthase activity in vitro and in vivo by gas chromatographyâ€“mass spectrometry. Biomedical Applications, 2000, 742, 143-153.	1.7	79
82	Enzymology of Nitric Oxide Synthases. , 1998, 100, 1-32.		78
83	Novel guanylyl cyclase inhibitor potently inhibits cyclic GMP accumulation in endothelial cells and relaxation of bovine pulmonary artery. Journal of Pharmacology and Experimental Therapeutics, 1996, 277, 48-53.	2.5	78
84	Reaction of peroxynitrite with oxyhaemoglobin: interference with photometrical determination of nitric oxide. Biochemical Journal, 1994, 301, 645-647.	3.7	74
85	Nitric oxide synthases: catalytic function and progress towards selective inhibition. Naunyn-Schmiedeberg's Archives of Pharmacology, 1998, 358, 127-133.	3.0	74
86	Colocalization of vasoactive intestinal peptide and nitric oxide synthase in neurons of the ferret trachea. Neuroscience, 1993, 54, 839-843.	2.3	73
87	The distribution and co-localization of immunoreactivity to nitric oxide synthase, vasoactive intestinal polypeptide and substance P within nerve fibres supplying bovine and porcine female genital organs. Cell and Tissue Research, 1995, 281, 445-464.	2.9	73
88	Cardiomyocyte Overexpression of Neuronal Nitric Oxide Synthase Delays Transition Toward Heart Failure in Response to Pressure Overload by Preserving Calcium Cycling. Circulation, 2008, 117, 3187-3198.	1.6	73
89	Neurochemical characterization of intrinsic neurons in ferret tracheal plexus.. American Journal of Respiratory Cell and Molecular Biology, 1996, 14, 207-216.	2.9	72
90	Low-Temperature Optical Absorption Spectra Suggest a Redox Role for Tetrahydrobiopterin in Both Steps of Nitric Oxide Synthase Catalysisâ€. Biochemistry, 2000, 39, 11763-11770.	2.5	71

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91	Nitric oxide synthase and NADP-linked glucose-6-phosphate dehydrogenase are co-localized in brush cells of rat stomach and pancreas.. Journal of Histochemistry and Cytochemistry, 1994, 42, 1317-1321.	2.5	70
92	Neuronal and endothelial nitric oxide synthase immunoreactivity and NADPH-diaphorase staining in rat and human pancreas: influence of fixation. Histochemistry, 1994, 102, 353-364.	1.9	70
93	Analysis of Neuronal NO Synthase under Single-Turnover Conditions:Â Conversion ofNÏ‰-Hydroxyarginine to Nitric Oxide and Citrullineâ€. Biochemistry, 1997, 36, 10811-10816.	2.5	70
94	Distribution pattern, neurochemical features and projections of nitrergic neurons in the pig small intestine. Annals of Anatomy, 1994, 176, 515-525.	1.9	69
95	TRPC3 contributes to regulation of cardiac contractility and arrhythmogenesis by dynamic interaction with NCX1. Cardiovascular Research, 2015, 106, 163-173.	3.8	69
96	Neurochemical differentiation of rat enteric neurons during pre- and postnatal life. Cell and Tissue Research, 1997, 288, 11-23.	2.9	68
97	Effects of pH on the structure and function of neuronal nitric oxide synthase. Biochemical Journal, 1998, 331, 801-807.	3.7	68
98	Bioactivation of Nitroglycerin by Purified Mitochondrial and Cytosolic Aldehyde Dehydrogenases. Journal of Biological Chemistry, 2008, 283, 17873-17880.	3.4	68
99	Localization of nitric oxide synthase in the brain of the frog,Xenopus laevis. Brain Research, 1996, 741, 331-343.	2.2	67
100	Immunocytochemical and histochemical localization of nitric oxide synthase in the turtle retina. Visual Neuroscience, 1997, 14, 717-729.	1.0	67
101	Expression of rat brain nitric oxide synthase in baculovirus-infected insect cells and characterization of the purified enzyme. Biochemical Journal, 1994, 304, 683-686.	3.7	66
102	Characterization of endothelial cell amino acid transport systems involved in the actions of nitric oxide synthase inhibitors. Molecular Pharmacology, 1993, 44, 615-21.	2.3	64
103	Nitrergic innervation of the rat esophagus: Focus on motor endplates. Journal of the Autonomic Nervous System, 1994, 49, 227-233.	1.9	63
104	Electrochemistry of Pterin Cofactors and Inhibitors of Nitric Oxide Synthase. Nitric Oxide - Biology and Chemistry, 2001, 5, 176-186.	2.7	63
105	Distribution and morphological features of nitrergic neurons in the porcine large intestine. Histochemistry, 1993, 100, 27-34.	1.9	62
106	Neuronal Nitric-oxide Synthase Interaction with Calmodulin-Troponin C Chimeras. Journal of Biological Chemistry, 1998, 273, 5451-5454.	3.4	62
107	Nitric oxide synthase neurons in rat brain express more NMDA receptor mRNA than non-NOS neurons. NeuroReport, 1993, 4, 807-810.	1.2	61
108	The role of tetrahydrobiopterin in the activation of oxygen by nitric-oxide synthase. Journal of Inorganic Biochemistry, 2000, 81, 207-211.	3.5	61

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109	Distribution of Nitric Oxide Synthase in the Human Cerebral Blood Vessels and Brain Tissues. Journal of Cerebral Blood Flow and Metabolism, 1994, 14, 930-938.	4.3	60
110	Functional Cardiac Lipolysis in Mice Critically Depends on Comparative Gene Identification-58. Journal of Biological Chemistry, 2013, 288, 9892-9904.	3.4	60
111	Nitric oxide synthase in the rat carotid body and carotid sinus. Cell and Tissue Research, 1994, 276, 559-564.	2.9	59
112	Characterization of Recombinant Human Endothelial Nitric-oxide Synthase Purified from the Yeast Pichia pastoris. Journal of Biological Chemistry, 1999, 274, 37658-37664.	3.4	59
113	Allosteric modulation of rat brain nitric oxide synthase by the pterin-site enzyme inhibitor 4-aminotetrahydrobiopterin. Biochemical Journal, 1997, 328, 349-352.	3.7	58
114	Single-turnover of Nitric-oxide Synthase in the Presence of 4-Amino-tetrahydrobiopterin. Journal of Biological Chemistry, 2003, 278, 48602-48610.	3.4	58
115	Mechanisms Underlying Activation of Soluble Guanylate Cyclase by the Nitroxyl Donor Angeli's Salt. Molecular Pharmacology, 2009, 76, 1115-1122.	2.3	58
116	Morphological analyses of NADPH-diaphorase/nitric oxide synthase positive structures in human visual cortex. Journal of Neurocytology, 1994, 23, 770-782.	1.5	57
117	Molecular Mechanisms Involved in the Synergistic Activation of Soluble Guanylyl Cyclase by YC-1 and Nitric Oxide in Endothelial Cells. Molecular Pharmacology, 2001, 59, 220-224.	2.3	57
118	S-Nitrosation Controls Gating and Conductance of the Î±1 Subunit of Class C L-type Ca2+ Channels. Journal of Biological Chemistry, 2001, 276, 14797-14803.	3.4	57
119	Thiols and Neuronal Nitric Oxide Synthase:â€‰ Complex Formation, Competitive Inhibition, and Enzyme Stabilization. Biochemistry, 1997, 36, 4360-4366.	2.5	56
120	Tetrahydrobiopterin, Cytokines, and Nitric Oxide Synthesis. Experimental Biology and Medicine, 1998, 219, 171-182.	2.4	55
121	Interaction of Endothelial and Neuronal Nitric-oxide Synthases with the Bradykinin B2 Receptor. Journal of Biological Chemistry, 2000, 275, 5291-5296.	3.4	55
122	Nitric oxide/cGMP pathway components in the Leydig cells of the human testis. Cell and Tissue Research, 1996, 287, 161-170.	2.9	54
123	Molecular Actions of a Mn(III)Porphyrin Superoxide Dismutase Mimetic and Peroxynitrite Scavenger: Reaction with Nitric Oxide and Direct Inhibition of NO Synthase and Soluble Guanylyl Cyclase. Molecular Pharmacology, 1998, 53, 795-800.	2.3	54
124	Nitric Oxide Synthase-Catalyzed Activation of Oxygen and Reduction of Cytochromes: Reaction Mechanisms and Possible Physiological Implications. Journal of Cardiovascular Pharmacology, 1992, 20, S54-S56.	1.9	53
125	Inactivation of Soluble Guanylate Cyclase by Stoichiometric S-Nitrosation. Molecular Pharmacology, 2009, 75, 886-891.	2.3	53
126	Possible inhibitory function of endogenous 15-hydroperoxyeicosatetraenoic acid on prostacyclin formation in bovine aortic endothelial cells. Lipids and Lipid Metabolism, 1986, 875, 641-653.	2.6	52

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127	Nitric oxide synthase-containing nerve fibers and neurons in the genital tract of the female mouse. Cell and Tissue Research, 1994, 275, 355-360.	2.9	52
128	Immunocytochemical localization of nitric oxide synthase in the brain of the chicken. NeuroReport, 1994, 5, 2425-2428.	1.2	52
129	Activation of Soluble Guanylyl Cyclase by the Nitrovasodilator 3-Morpholinosydnonimine Involves Formation ofS-Nitrosoglutathione. Molecular Pharmacology, 1998, 54, 207-212.	2.3	52
130	Characterization of lipoxygenase metabolites of arachidonic acid in cultured human skin fibroblasts. Lipids and Lipid Metabolism, 1984, 795, 151-161.	2.6	51
131	Uptake of nitric oxide synthase inhibitors by macrophage RAW 264.7 cells. Biochemical Journal, 1994, 301, 313-316.	3.7	48
132	Transient changes in the presence of nitric oxide synthases and nitrotyrosine immunoreactivity after focal cortical lesions. Neuroscience, 1997, 82, 377-395.	2.3	48
133	Ca2+/calmodulin-dependent nitric oxide synthase activity in the human cervix carcinoma cell line ME-180. Biochemical Journal, 1993, 289, 357-361.	3.7	46
134	Functional characterization of Glu298Asp mutant human endothelial nitric oxide synthase purified from a yeast expression system. Nitric Oxide - Biology and Chemistry, 2003, 8, 7-14.	2.7	46
135	Electrochemical Determination ofS-Nitrosothiols with a Clark-Type Nitric Oxide Electrode. Analytical Biochemistry, 1998, 258, 68-73.	2.4	45
136	The alpha-amino group of l -arginine mediates its antioxidant effect. European Journal of Clinical Investigation, 2001, 31, 98-102.	3.4	45
137	Characterization of the East Asian Variant of Aldehyde Dehydrogenase-2. Journal of Biological Chemistry, 2010, 285, 943-952.	3.4	45
138	Nitric oxide synthase-expressing neurons are area-specifically distributed within the cerebral cortex of the rat. Neuroscience, 1997, 81, 321-330.	2.3	44
139	Neuronal nitric oxide synthase (nNOS) expression in the epithelial neuroendocrine cell system and nerve fibers in the gill of the catfish, Heteropneustes fossilis. Acta Histochemica, 1999, 101, 437-448.	1.8	44
140	Biosynthesis of nitric oxide: Dependence on pteridine metabolism. Reviews of Physiology, Biochemistry and Pharmacology, 1995, 127, 97-135.	1.6	43
141	Nitric oxide synthase in the peripheral nervous system of the goldfish, Carassius auratus. Cell and Tissue Research, 1996, 284, 87-98.	2.9	43
142	The protein inhibitor of neuronal nitric oxide synthase (PIN): characterization of its action on pure nitric oxide synthases. FEBS Letters, 1998, 430, 397-400.	2.8	43
143	Vascular Bioactivation of Nitroglycerin Is Catalyzed by Cytosolic Aldehyde Dehydrogenase-2. Circulation Research, 2012, 110, 385-393.	4.5	43
144	Activation of Neuronal Nitric-oxide Synthase by the 5-Methyl Analog of Tetrahydrobiopterin. Journal of Biological Chemistry, 1999, 274, 16047-16051.	3.4	42

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145	Parasympathetic preganglionic neurons in the spinal cord involved in uterine innervation are cholinergic and nitric oxide-containing. The Anatomical Record, 1995, 241, 554-562.	1.8	41
146	Regulation of nitric oxide synthase and soluble guanylyl cyclase. Cell Biochemistry and Function, 1994, 12, 167-177.	2.9	40
147	Overexpression of neuronal nitric oxide synthase in insect cells reveals requirement of haem for tetrahydrobiopterin binding. Biochemical Journal, 1996, 315, 57-63.	3.7	40
148	Nitrergic and VIPergic neurons in the choroid and ciliary ganglion of the duck Anis carina. Anatomy and Embryology, 1996, 193, 239-48.	1.5	40
149	Measurement of prostaglandins, thromboxanes and hydroxy fatty acids by stable isotope dilution gas chromatography/mass spectrometry. Biomedical & Environmental Mass Spectrometry, 1987, 14, 617-621.	1.6	39
150	Stimulation of human nitric oxide synthase by tetrahydrobiopterin and selective binding of the cofactor. FEBS Letters, 1992, 305, 160-162.	2.8	39
151	Nitric oxide synthase in vagal sensory and sympathetic neurons innervating the guinea-pig trachea. Journal of the Autonomic Nervous System, 1996, 56, 157-160.	1.9	39
152	Role of endothelin, nitric oxide and L-arginine release in ischaemia/reperfusion injury of rat heart. Cardiovascular Research, 1997, 36, 60-66.	3.8	39
153	Site and mechanism of uncoupling of nitric-oxide synthase: Uncoupling by monomerization and other misconceptions. Nitric Oxide - Biology and Chemistry, 2019, 89, 14-21.	2.7	39
154	Ca2+ -dependent formation of an L-arginine-derived activator of soluble guanylyl cyclase in bovine lung. FEBS Letters, 1989, 256, 211-214.	2.8	38
155	Activation of soluble guanylate cyclase by nitrovasodilators is inhibited by oxidized low-density lipoprotein. Biochemical and Biophysical Research Communications, 1990, 172, 614-619.	2.1	38
156	Immunohistochemical demonstration of the synthesis enzyme for nitric oxide and of comediators in neurons and chromaffin cells of the human adrenal medulla. Annals of Anatomy, 1994, 176, 11-16.	1.9	38
157	Spatial relationships of enteric nerve fibers to vagal motor terminals and the sarcolemma in motor endplates of the rat esophagus: a confocal laser scanning and electron-microscopic study. Cell and Tissue Research, 1996, 287, 113-118.	2.9	38
158	Preferential inhibition of inducible nitric oxide synthase in intact cells by the 4-amino analogue of tetrahydrobiopterin. FEBS Journal, 1999, 259, 25-31.	0.2	38
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