

Bernd Mayer

List of Publications by Year in descending order

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#	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. <i>Molecular Pharmacology</i> , 1995, 48, 184-8.	1.0	881
2	ATGL-mediated fat catabolism regulates cardiac mitochondrial function via PPAR- α and PGC-1. <i>Nature Medicine</i> , 2011, 17, 1076-1085.	15.2	612
3	Enzymatic function of nitric oxide synthases. <i>Cardiovascular Research</i> , 1999, 43, 521-531.	1.8	585
4	Biosynthesis and action of nitric oxide in mammalian cells. <i>Trends in Biochemical Sciences</i> , 1997, 22, 477-481.	3.7	553
5	Ca ²⁺ /calmodulin-dependent formation of hydrogen peroxide by brain nitric oxide synthase. <i>Biochemical Journal</i> , 1992, 281, 627-630.	1.7	545
6	Inhibition of nitric oxide synthesis by methylene blue. <i>Biochemical Pharmacology</i> , 1993, 45, 367-374.	2.0	461
7	Purification of a Ca ²⁺ /calmodulin-dependent nitric oxide synthase from porcine cerebellum. <i>FEBS Letters</i> , 1990, 277, 215-219.	1.3	420
8	Brain nitric oxide synthase is a biopterin- and flavin-containing multi-functional oxido-reductase. <i>FEBS Letters</i> , 1991, 288, 187-191.	1.3	386
9	Tetrahydrobiopterin Improves Endothelium-Dependent Vasodilation in Chronic Smokers. <i>Circulation Research</i> , 2000, 86, E36-41.	2.0	374
10	l-Ascorbic Acid Potentiates Endothelial Nitric Oxide Synthesis via a Chemical Stabilization of Tetrahydrobiopterin. <i>Journal of Biological Chemistry</i> , 2001, 276, 40-47.	1.6	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. <i>Molecular Pharmacology</i> , 1996, 50, 1-5.	1.0	317
12	Metabolic Fate of Peroxynitrite in Aqueous Solution. <i>Journal of Biological Chemistry</i> , 1997, 272, 3465-3470.	1.6	288
13	Expression of nitric oxide synthase in kidney macula densa cells. <i>Kidney International</i> , 1992, 42, 1017-1019.	2.6	269
14	Biosynthesis of endothelium-derived relaxing factor: A cytosolic enzyme in porcine aortic endothelial cells Ca ²⁺ -dependently converts L-arginine into an activator of soluble guanylyl cyclase. <i>Biochemical and Biophysical Research Communications</i> , 1989, 164, 678-685.	1.0	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.. <i>EMBO Journal</i> , 1995, 14, 3687-3695.	3.5	262
16	Nitric Oxide: Chemical Puzzles Posed by a Biological Messenger. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 1714-1731.	7.2	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. <i>Journal of Biological Chemistry</i> , 1993, 268, 14781-14787.	1.6	236
18	How much nicotine kills a human? Tracing back the generally accepted lethal dose to dubious self-experiments in the nineteenth century. <i>Archives of Toxicology</i> , 2014, 88, 5-7.	1.9	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.	1.6	202
20	Inhibition of nitric oxide synthesis by N ^G -nitro-L-arginine methyl ester (L-NAME): requirement for bioactivation to the free acid, N ^G -nitro-L-arginine. British Journal of Pharmacology, 1996, 118, 1433-1440.	2.7	199
21	Ca ²⁺ /calmodulin-dependent cytochrome c reductase activity of brain nitric oxide synthase.. Journal of Biological Chemistry, 1992, 267, 11374-11378.	1.6	198
22	Nitric oxide synthase-containing neural processes on large cerebral arteries and cerebral microvessels. Brain Research, 1993, 606, 148-155.	1.1	196
23	Nitric oxide synthase in cardiac nerve fibers and neurons of rat and guinea pig heart.. Circulation Research, 1992, 71, 1533-1537.	2.0	190
24	A New Pathway of Nitric Oxide/Cyclic GMP Signaling Involving S-Nitrosoglutathione. Journal of Biological Chemistry, 1998, 273, 3264-3270.	1.6	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.	1.6	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.	1.0	176
27	Decomposition of S-Nitrosoglutathione in the Presence of Copper Ions and Glutathione. Archives of Biochemistry and Biophysics, 1996, 330, 219-228.	1.4	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.	1.7	171
29	Ca ²⁺ /calmodulin-dependent cytochrome c reductase activity of brain nitric oxide synthase. Journal of Biological Chemistry, 1992, 267, 11374-8.	1.6	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.	1.6	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.	1.6	169
32	Nitric oxide synthase in guinea pig lower airway innervation. Neuroscience Letters, 1993, 149, 157-160.	1.0	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.	1.6	168
34	Characterization of the Inducible Nitric Oxide Synthase Oxygenase Domain Identifies a 49 Amino Acid Segment Required for Subunit Dimerization and Tetrahydrobiopterin Interaction. Biochemistry, 1997, 36, 10609-10619.	1.2	161
35	Tetrahydrobiopterin-dependent formation of endothelium-derived relaxing factor (nitric oxide) in aortic endothelial cells. Biochemical Journal, 1992, 281, 297-300.	1.7	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. <i>Journal of Biological Chemistry</i> , 1998, 273, 27280-27285.	1.6	158
38	Reaction of Neuronal Nitric-oxide Synthase with Oxygen at Low Temperature. <i>Journal of Biological Chemistry</i> , 1998, 273, 13502-13508.	1.6	158
39	Tetrahydrobiopterin-Free Neuronal Nitric Oxide Synthase: Evidence for Two Identical Highly Anticooperative Pteridine Binding Sites. <i>Biochemistry</i> , 1996, 35, 16735-16745.	1.2	152
40	Protein tyrosine nitration in mouse peritoneal macrophages activated in vitro and in vivo: evidence against an essential role of peroxynitrite. <i>FASEB Journal</i> , 2001, 15, 2355-2364.	0.2	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. <i>Biochemical Journal</i> , 1997, 323, 159-165.	1.7	151
42	Brain nitric oxide synthase is a haemoprotein. <i>Biochemical Journal</i> , 1992, 288, 15-17.	1.7	146
43	Nitric oxide synthase in VIP-containing vasodilator nerve fibres in the Guinea pig. <i>NeuroReport</i> , 1992, 3, 653.	0.6	145
44	Dityrosine Formation Outcompetes Tyrosine Nitration at Low Steady-state Concentrations of Peroxynitrite. <i>Journal of Biological Chemistry</i> , 2000, 275, 6346-6352.	1.6	143
45	Molecular mechanisms of inhibition of porcine brain nitric oxide synthase by the antinociceptive drug 7-nitro-indazole. <i>Neuropharmacology</i> , 1994, 33, 1253-1259.	2.0	141
46	Protein Tyrosine Nitration in Cytokine-activated Murine Macrophages. <i>Journal of Biological Chemistry</i> , 2001, 276, 34051-34058.	1.6	141
47	Regulation of Neuronal Nitric Oxide and Cyclic GMP Formation by Ca^{2+} . <i>Journal of Neurochemistry</i> , 1992, 59, 2024-2029.	2.1	141
48	Kinetics and Mechanism of Tetrahydrobiopterin-induced Oxidation of Nitric Oxide. <i>Journal of Biological Chemistry</i> , 1995, 270, 655-659.	1.6	138
49	Inhibitors of brain nitric oxide synthase. Binding kinetics, metabolism, and enzyme inactivation. <i>Journal of Biological Chemistry</i> , 1994, 269, 1674-1680.	1.6	138
50	Tetrahydrobiopterin and Nitric Oxide: Mechanistic and Pharmacological Aspects. <i>Experimental Biology and Medicine</i> , 2003, 228, 1291-1302.	1.1	130
51	Functional and Analytical Evidence for Scavenging of Oxygen Radicals by L-Arginine. <i>Molecular Pharmacology</i> , 2002, 61, 1081-1088.	1.0	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. <i>Brain Research</i> , 1993, 610, 317-324.	1.1	123
53	S-nitrosation of glutathione by nitric oxide, peroxynitrite, and NO_2^+ . <i>Free Radical Biology and Medicine</i> , 2003, 34, 1078-1088.	1.3	121
54	In search of a function for tetrahydrobiopterin in the biosynthesis of nitric oxide. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 1995, 351, 453-63.	1.4	119

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55	Attenuation of myocardial ischemia/reperfusion injury in mice with myocyte-specific overexpression of endothelial nitric oxide synthase. <i>Cardiovascular Research</i> , 2003, 57, 55-62.	1.8	119
56	Inhibitors of brain nitric oxide synthase. Binding kinetics, metabolism, and enzyme inactivation. <i>Journal of Biological Chemistry</i> , 1994, 269, 1674-80.	1.6	118
57	Nitric oxide synthase immunoreactivity in the enteric nervous system of the developing human digestive tract. <i>Cell and Tissue Research</i> , 1994, 275, 235-245.	1.5	114
58	Multiple populations of neuropeptide-containing intrinsic neurons in the guinea-pig heart. <i>Neuroscience</i> , 1994, 62, 241-250.	1.1	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. <i>Molecular Brain Research</i> , 1994, 22, 245-258.	2.5	113
60	Myocardial Contractile Function and Heart Rate in Mice With Myocyte-Specific Overexpression of Endothelial Nitric Oxide Synthase. <i>Circulation</i> , 2001, 104, 3097-3102.	1.6	112
61	Tetrahydrobiopterin Binding to Macrophage Inducible Nitric Oxide Synthase: Heme Spin Shift and Dimer Stabilization by the Potent Pterin Antagonist 4-Amino-Tetrahydrobiopterin. <i>Biochemistry</i> , 1997, 36, 8422-8427.	1.2	111
62	Nitric-oxide synthase: A cytochrome P450 family foster child. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2007, 1770, 432-445.	1.1	110
63	The enigma of nitroglycerin bioactivation and nitrate tolerance: news, views and troubles. <i>British Journal of Pharmacology</i> , 2008, 155, 170-184.	2.7	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. <i>Journal of Biological Inorganic Chemistry</i> , 2001, 6, 151-158.	1.1	98
65	Tetrahydrobiopterin in Nitric Oxide Synthesis: A Novel Biological Role for Pteridines. <i>Current Drug Metabolism</i> , 2002, 3, 133-157.	0.7	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. <i>Brain Research</i> , 1993, 608, 324-333.	1.1	90
67	Nitric oxide synthase in the brain of the turtle <i>Pseudemys scripta elegans</i> . <i>Journal of Comparative Neurology</i> , 1994, 348, 183-206.	0.9	90
68	Role of Bound Zinc in Dimer Stabilization but Not Enzyme Activity of Neuronal Nitric-oxide Synthase. <i>Journal of Biological Chemistry</i> , 2000, 275, 35786-35791.	1.6	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. <i>Biochemical Journal</i> , 1996, 320, 193-196.	1.7	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. <i>EMBO Journal</i> , 1995, 14, 3687-95.	3.5	89
71	Effect of calcium on endothelium-derived relaxing factor formation and cGMP levels in endothelial cells. <i>European Journal of Pharmacology</i> , 1989, 170, 157-166.	1.7	88
72	Patterns of Mobilization of Copper and Iron Following Myocardial Ischemia: Possible Predictive Criteria for Tissue Injury. <i>Journal of Molecular and Cellular Cardiology</i> , 1997, 29, 3025-3034.	0.9	88

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73	Na ⁺ /Ca ²⁺ Exchange Facilitates Ca ²⁺ -dependent Activation of Endothelial Nitric-oxide Synthase. <i>Journal of Biological Chemistry</i> , 1999, 274, 29529-29535.	1.6	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. <i>Biochemical Journal</i> , 2005, 385, 769-777.	1.7	86
75	Histochemical and immunocytochemical localization of nitric oxide synthase in the central nervous system of the goldfish, <i>Carassius auratus</i> . <i>Journal of Comparative Neurology</i> , 1995, 358, 353-382.	0.9	85
76	Nitric Oxide Synthase(NOS-I) in Leydig Cells of the Human Testis.. <i>Archives of Histology and Cytology</i> , 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. <i>Cell and Tissue Research</i> , 1995, 281, 493-499.	1.5	82
78	Species differences in choroidal vasodilative innervation: evidence for specific intrinsic nitrergic and VIP-positive neurons in the human eye. <i>Investigative Ophthalmology and Visual Science</i> , 1994, 35, 592-9.	3.3	81
79	Interference of Carboxy-PTIO with Nitric Oxide- and Peroxynitrite-Mediated Reactions. <i>Free Radical Biology and Medicine</i> , 1997, 22, 787-794.	1.3	80
80	Release of nitric oxide from donors with known half-life: a mathematical model for calculating nitric oxide concentrations in aerobic solutions. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 1997, 355, 457-462.	1.4	79
81	Assessment of nitric oxide synthase activity in vitro and in vivo by gas chromatography-mass spectrometry. <i>Biomedical Applications</i> , 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. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 1996, 277, 48-53.	1.3	78
84	Reaction of peroxynitrite with oxyhaemoglobin: interference with photometrical determination of nitric oxide. <i>Biochemical Journal</i> , 1994, 301, 645-647.	1.7	74
85	Nitric oxide synthases: catalytic function and progress towards selective inhibition. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 1998, 358, 127-133.	1.4	74
86	Colocalization of vasoactive intestinal peptide and nitric oxide synthase in neurons of the ferret trachea. <i>Neuroscience</i> , 1993, 54, 839-843.	1.1	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. <i>Cell and Tissue Research</i> , 1995, 281, 445-464.	1.5	73
88	Cardiomyocyte Overexpression of Neuronal Nitric Oxide Synthase Delays Transition Toward Heart Failure in Response to Pressure Overload by Preserving Calcium Cycling. <i>Circulation</i> , 2008, 117, 3187-3198.	1.6	73
89	Neurochemical characterization of intrinsic neurons in ferret tracheal plexus.. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 1996, 14, 207-216.	1.4	72
90	Low-Temperature Optical Absorption Spectra Suggest a Redox Role for Tetrahydrobiopterin in Both Steps of Nitric Oxide Synthase Catalysis. <i>Biochemistry</i> , 2000, 39, 11763-11770.	1.2	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.	1.3	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 ofNÎ‰-Hydroxyarginine to Nitric Oxide and Citrullineâ€. Biochemistry, 1997, 36, 10811-10816.	1.2	70
94	Distribution pattern, neurochemical features and projections of nitrergic neurons in the pig small intestine. Annals of Anatomy, 1994, 176, 515-525.	1.0	69
95	TRPC3 contributes to regulation of cardiac contractility and arrhythmogenesis by dynamic interaction with NCX1. Cardiovascular Research, 2015, 106, 163-173.	1.8	69
96	Neurochemical differentiation of rat enteric neurons during pre- and postnatal life. Cell and Tissue Research, 1997, 288, 11-23.	1.5	68
97	Effects of pH on the structure and function of neuronal nitric oxide synthase. Biochemical Journal, 1998, 331, 801-807.	1.7	68
98	Bioactivation of Nitroglycerin by Purified Mitochondrial and Cytosolic Aldehyde Dehydrogenases. Journal of Biological Chemistry, 2008, 283, 17873-17880.	1.6	68
99	Localization of nitric oxide synthase in the brain of the frog,Xenopus laevis. Brain Research, 1996, 741, 331-343.	1.1	67
100	Immunocytochemical and histochemical localization of nitric oxide synthase in the turtle retina. Visual Neuroscience, 1997, 14, 717-729.	0.5	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.	1.7	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.	1.0	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.	1.2	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.	1.6	62
107	Nitric oxide synthase neurons in rat brain express more NMDA receptor mRNA than non-NOS neurons. NeuroReport, 1993, 4, 807-810.	0.6	61
108	The role of tetrahydrobiopterin in the activation of oxygen by nitric-oxide synthase. Journal of Inorganic Biochemistry, 2000, 81, 207-211.	1.5	61

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109	Distribution of Nitric Oxide Synthase in the Human Cerebral Blood Vessels and Brain Tissues. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1994, 14, 930-938.	2.4	60
110	Functional Cardiac Lipolysis in Mice Critically Depends on Comparative Gene Identification-58. <i>Journal of Biological Chemistry</i> , 2013, 288, 9892-9904.	1.6	60
111	Nitric oxide synthase in the rat carotid body and carotid sinus. <i>Cell and Tissue Research</i> , 1994, 276, 559-564.	1.5	59
112	Characterization of Recombinant Human Endothelial Nitric-oxide Synthase Purified from the Yeast <i>Pichia pastoris</i> . <i>Journal of Biological Chemistry</i> , 1999, 274, 37658-37664.	1.6	59
113	Allosteric modulation of rat brain nitric oxide synthase by the pterin-site enzyme inhibitor 4-aminotetrahydrobiopterin. <i>Biochemical Journal</i> , 1997, 328, 349-352.	1.7	58
114	Single-turnover of Nitric-oxide Synthase in the Presence of 4-Amino-tetrahydrobiopterin. <i>Journal of Biological Chemistry</i> , 2003, 278, 48602-48610.	1.6	58
115	Mechanisms Underlying Activation of Soluble Guanylate Cyclase by the Nitroxyl Donor Angeli's Salt. <i>Molecular Pharmacology</i> , 2009, 76, 1115-1122.	1.0	58
116	Morphological analyses of NADPH-diaphorase/nitric oxide synthase positive structures in human visual cortex. <i>Journal of Neurocytology</i> , 1994, 23, 770-782.	1.6	57
117	Molecular Mechanisms Involved in the Synergistic Activation of Soluble Guanylyl Cyclase by YC-1 and Nitric Oxide in Endothelial Cells. <i>Molecular Pharmacology</i> , 2001, 59, 220-224.	1.0	57
118	S-Nitrosation Controls Gating and Conductance of the $\hat{I}\pm 1$ Subunit of Class C L-type Ca^{2+} Channels. <i>Journal of Biological Chemistry</i> , 2001, 276, 14797-14803.	1.6	57
119	Thiols and Neuronal Nitric Oxide Synthase:â€‰% Complex Formation, Competitive Inhibition, and Enzyme Stabilization. <i>Biochemistry</i> , 1997, 36, 4360-4366.	1.2	56
120	Tetrahydrobiopterin, Cytokines, and Nitric Oxide Synthesis. <i>Experimental Biology and Medicine</i> , 1998, 219, 171-182.	1.1	55
121	Interaction of Endothelial and Neuronal Nitric-oxide Synthases with the Bradykinin B2 Receptor. <i>Journal of Biological Chemistry</i> , 2000, 275, 5291-5296.	1.6	55
122	Nitric oxide/cGMP pathway components in the Leydig cells of the human testis. <i>Cell and Tissue Research</i> , 1996, 287, 161-170.	1.5	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. <i>Molecular Pharmacology</i> , 1998, 53, 795-800.	1.0	54
124	Nitric Oxide Synthase-Catalyzed Activation of Oxygen and Reduction of Cytochromes: Reaction Mechanisms and Possible Physiological Implications. <i>Journal of Cardiovascular Pharmacology</i> , 1992, 20, S54-S56.	0.8	53
125	Inactivation of Soluble Guanylate Cyclase by Stoichiometric S-Nitrosation. <i>Molecular Pharmacology</i> , 2009, 75, 886-891.	1.0	53
126	Possible inhibitory function of endogenous 15-hydroperoxyeicosatetraenoic acid on prostacyclin formation in bovine aortic endothelial cells. <i>Lipids and Lipid Metabolism</i> , 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. <i>Cell and Tissue Research</i> , 1994, 275, 355-360.	1.5	52
128	Immunocytochemical localization of nitric oxide synthase in the brain of the chicken. <i>NeuroReport</i> , 1994, 5, 2425-2428.	0.6	52
129	Activation of Soluble Guanylyl Cyclase by the Nitrovasodilator 3-Morpholinosydnonimine Involves Formation of S-Nitrosoglutathione. <i>Molecular Pharmacology</i> , 1998, 54, 207-212.	1.0	52
130	Characterization of lipoxygenase metabolites of arachidonic acid in cultured human skin fibroblasts. <i>Lipids and Lipid Metabolism</i> , 1984, 795, 151-161.	2.6	51
131	Uptake of nitric oxide synthase inhibitors by macrophage RAW 264.7 cells. <i>Biochemical Journal</i> , 1994, 301, 313-316.	1.7	48
132	Transient changes in the presence of nitric oxide synthases and nitrotyrosine immunoreactivity after focal cortical lesions. <i>Neuroscience</i> , 1997, 82, 377-395.	1.1	48
133	Ca ²⁺ /calmodulin-dependent nitric oxide synthase activity in the human cervix carcinoma cell line ME-180. <i>Biochemical Journal</i> , 1993, 289, 357-361.	1.7	46
134	Functional characterization of Glu298Asp mutant human endothelial nitric oxide synthase purified from a yeast expression system. <i>Nitric Oxide - Biology and Chemistry</i> , 2003, 8, 7-14.	1.2	46
135	Electrochemical Determination of S-Nitrosothiols with a Clark-Type Nitric Oxide Electrode. <i>Analytical Biochemistry</i> , 1998, 258, 68-73.	1.1	45
136	The alpha-amino group of L-arginine mediates its antioxidant effect. <i>European Journal of Clinical Investigation</i> , 2001, 31, 98-102.	1.7	45
137	Characterization of the East Asian Variant of Aldehyde Dehydrogenase-2. <i>Journal of Biological Chemistry</i> , 2010, 285, 943-952.	1.6	45
138	Nitric oxide synthase-expressing neurons are area-specifically distributed within the cerebral cortex of the rat. <i>Neuroscience</i> , 1997, 81, 321-330.	1.1	44
139	Neuronal nitric oxide synthase (nNOS) expression in the epithelial neuroendocrine cell system and nerve fibers in the gill of the catfish, <i>Heteropneustes fossilis</i> . <i>Acta Histochemica</i> , 1999, 101, 437-448.	0.9	44
140	Biosynthesis of nitric oxide: Dependence on pteridine metabolism. <i>Reviews of Physiology, Biochemistry and Pharmacology</i> , 1995, 127, 97-135.	0.9	43
141	Nitric oxide synthase in the peripheral nervous system of the goldfish, <i>Carassius auratus</i> . <i>Cell and Tissue Research</i> , 1996, 284, 87-98.	1.5	43
142	The protein inhibitor of neuronal nitric oxide synthase (PIN): characterization of its action on pure nitric oxide synthases. <i>FEBS Letters</i> , 1998, 430, 397-400.	1.3	43
143	Vascular Bioactivation of Nitroglycerin Is Catalyzed by Cytosolic Aldehyde Dehydrogenase-2. <i>Circulation Research</i> , 2012, 110, 385-393.	2.0	43
144	Activation of Neuronal Nitric-oxide Synthase by the 5-Methyl Analog of Tetrahydrobiopterin. <i>Journal of Biological Chemistry</i> , 1999, 274, 16047-16051.	1.6	42

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146	Regulation of nitric oxide synthase and soluble guanylyl cyclase. <i>Cell Biochemistry and Function</i> , 1994, 12, 167-177.	1.4	40
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