

Bernd Mayer

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327
papers

20,231
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77
h-index

129
g-index

334
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ext. citations

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L-index

#	Paper	IF	Citations
327	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	4.3	816
326	Ca ²⁺ /calmodulin-dependent formation of hydrogen peroxide by brain nitric oxide synthase. <i>Biochemical Journal</i> , 1992 , 281 (Pt 3), 627-30	3.8	513
325	Biosynthesis and action of nitric oxide in mammalian cells. <i>Trends in Biochemical Sciences</i> , 1997 , 22, 477-81	10.3	499
324	Enzymatic function of nitric oxide synthases. <i>Cardiovascular Research</i> , 1999 , 43, 521-31	9.9	486
323	ATGL-mediated fat catabolism regulates cardiac mitochondrial function via PPAR- α and PGC-1. <i>Nature Medicine</i> , 2011 , 17, 1076-85	50.5	481
322	Inhibition of nitric oxide synthesis by methylene blue. <i>Biochemical Pharmacology</i> , 1993 , 45, 367-74	6	423
321	Purification of a Ca ²⁺ /calmodulin-dependent nitric oxide synthase from porcine cerebellum. Cofactor-role of tetrahydrobiopterin. <i>FEBS Letters</i> , 1990 , 277, 215-9	3.8	363
320	Brain nitric oxide synthase is a biopterin- and flavin-containing multi-functional oxido-reductase. <i>FEBS Letters</i> , 1991 , 288, 187-91	3.8	337
319	L-ascorbic acid potentiates endothelial nitric oxide synthesis via a chemical stabilization of tetrahydrobiopterin. <i>Journal of Biological Chemistry</i> , 2001 , 276, 40-7	5.4	322
318	Tetrahydrobiopterin improves endothelium-dependent vasodilation in chronic smokers : evidence for a dysfunctional nitric oxide synthase. <i>Circulation Research</i> , 2000 , 86, E36-41	15.7	304
317	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	4.3	273
316	Metabolic fate of peroxyxynitrite in aqueous solution. Reaction with nitric oxide and pH-dependent decomposition to nitrite and oxygen in a 2:1 stoichiometry. <i>Journal of Biological Chemistry</i> , 1997 , 272, 3465-70	5.4	262
315	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, 678-85	3.4	242
314	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	13	235
313	Nitric Oxide: Chemical Puzzles Posed by a Biological Messenger. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 1714-1731	16.4	224
312	Expression of nitric oxide synthase in kidney macula densa cells. <i>Kidney International</i> , 1992 , 42, 1017-9	9.9	222
311	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	5.4	209

310	Nitric oxide synthase in cardiac nerve fibers and neurons of rat and guinea pig heart. <i>Circulation Research</i> , 1992 , 71, 1533-7	15.7	178
309	Nitric oxide synthase-containing neural processes on large cerebral arteries and cerebral microvessels. <i>Brain Research</i> , 1993 , 606, 148-55	3.7	174
308	Ca ²⁺ /calmodulin-dependent cytochrome c reductase activity of brain nitric oxide synthase.. <i>Journal of Biological Chemistry</i> , 1992 , 267, 11374-11378	5.4	173
307	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. <i>Neuroscience Letters</i> , 1993 , 150, 169-73	3.3	165
306	Ca ²⁺ /calmodulin-dependent cytochrome c reductase activity of brain nitric oxide synthase. <i>Journal of Biological Chemistry</i> , 1992 , 267, 11374-8	5.4	164
305	The pteridine binding site of brain nitric oxide synthase. Tetrahydrobiopterin binding kinetics, specificity, and allosteric interaction with the substrate domain.. <i>Journal of Biological Chemistry</i> , 1994 , 269, 13861-13866	5.4	163
304	The pteridine binding site of brain nitric oxide synthase. Tetrahydrobiopterin binding kinetics, specificity, and allosteric interaction with the substrate domain. <i>Journal of Biological Chemistry</i> , 1994 , 269, 13861-6	5.4	162
303	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, 14781-7	5.4	162
302	Decomposition of S-nitrosoglutathione in the presence of copper ions and glutathione. <i>Archives of Biochemistry and Biophysics</i> , 1996 , 330, 219-28	4.1	161
301	A new pathway of nitric oxide/cyclic GMP signaling involving S-nitrosoglutathione. <i>Journal of Biological Chemistry</i> , 1998 , 273, 3264-70	5.4	159
300	Long-lasting expression of JUN and KROX transcription factors and nitric oxide synthase in intrinsic neurons of the rat brain following axotomy. <i>Journal of Neuroscience</i> , 1993 , 13, 4130-45	6.6	158
299	Inhibition of nitric oxide synthesis by NG-nitro-L-arginine methyl ester (L-NAME): requirement for bioactivation to the free acid, NG-nitro-L-arginine. <i>British Journal of Pharmacology</i> , 1996 , 118, 1433-40	8.6	157
298	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. <i>Journal of Biological Chemistry</i> , 1996 , 271, 7336-42	5.4	157
297	Peroxynitrite-induced accumulation of cyclic GMP in endothelial cells and stimulation of purified soluble guanylyl cyclase. Dependence on glutathione and possible role of S-nitrosation. <i>Journal of Biological Chemistry</i> , 1995 , 270, 17355-60	5.4	152
296	Characterization of the inducible nitric oxide synthase oxygenase domain identifies a 49 amino acid segment required for subunit dimerization and tetrahydrobiopterin interaction. <i>Biochemistry</i> , 1997 , 36, 10609-19	3.2	147
295	Purification of soluble guanylyl cyclase from bovine lung by a new immunoaffinity chromatographic method. <i>FEBS Journal</i> , 1990 , 190, 273-8		147
294	Nitric oxide synthase in guinea pig lower airway innervation. <i>Neuroscience Letters</i> , 1993 , 149, 157-60	3.3	146
293	Tetrahydrobiopterin-dependent formation of endothelium-derived relaxing factor (nitric oxide) in aortic endothelial cells. <i>Biochemical Journal</i> , 1992 , 281 (Pt 2), 297-300	3.8	146

292	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, 2355-64	0.9	143
291	Lack of tyrosine nitration by peroxynitrite generated at physiological pH. <i>Journal of Biological Chemistry</i> , 1998 , 273, 27280-5	5.4	141
290	Tetrahydrobiopterin-free neuronal nitric oxide synthase: evidence for two identical highly anticooperative pteridine binding sites. <i>Biochemistry</i> , 1996 , 35, 16735-45	3.2	141
289	Molecular mechanisms of inhibition of porcine brain nitric oxide synthase by the antinociceptive drug 7-nitro-indazole. <i>Neuropharmacology</i> , 1994 , 33, 1253-9	5.5	140
288	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 (Pt 1), 159-65	3.8	139
287	Brain nitric oxide synthase is a haemoprotein. <i>Biochemical Journal</i> , 1992 , 288 (Pt 1), 15-7	3.8	137
286	Reaction of neuronal nitric-oxide synthase with oxygen at low temperature. Evidence for reductive activation of the oxy-ferrous complex by tetrahydrobiopterin. <i>Journal of Biological Chemistry</i> , 1998 , 273, 13502-8	5.4	136
285	Nitric oxide synthase in VIP-containing vasodilator nerve fibres in the guinea-pig. <i>NeuroReport</i> , 1992 , 3, 653-5	1.7	132
284	Regulation of neuronal nitric oxide and cyclic GMP formation by Ca ²⁺ . <i>Journal of Neurochemistry</i> , 1992 , 59, 2024-9	6	130
283	Dityrosine formation outcompetes tyrosine nitration at low steady-state concentrations of peroxynitrite. Implications for tyrosine modification by nitric oxide/superoxide in vivo. <i>Journal of Biological Chemistry</i> , 2000 , 275, 6346-52	5.4	126
282	Protein tyrosine nitration in cytokine-activated murine macrophages. Involvement of a peroxidase/nitrite pathway rather than peroxynitrite. <i>Journal of Biological Chemistry</i> , 2001 , 276, 34051-8	5.4	125
281	Kinetics and mechanism of tetrahydrobiopterin-induced oxidation of nitric oxide. <i>Journal of Biological Chemistry</i> , 1995 , 270, 655-9	5.4	121
280	Inhibitors of brain nitric oxide synthase. Binding kinetics, metabolism, and enzyme inactivation.. <i>Journal of Biological Chemistry</i> , 1994 , 269, 1674-1680	5.4	116
279	Functional and analytical evidence for scavenging of oxygen radicals by L-arginine. <i>Molecular Pharmacology</i> , 2002 , 61, 1081-8	4.3	113
278	Tetrahydrobiopterin and nitric oxide: mechanistic and pharmacological aspects. <i>Experimental Biology and Medicine</i> , 2003 , 228, 1291-302	3.7	112
277	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, 317-24	3.7	112
276	Inhibitors of brain nitric oxide synthase. Binding kinetics, metabolism, and enzyme inactivation. <i>Journal of Biological Chemistry</i> , 1994 , 269, 1674-80	5.4	110
275	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	9.9	107

274	S-nitrosation of glutathione by nitric oxide, peroxyxynitrite, and (*)NO/O(2)(*-. <i>Free Radical Biology and Medicine</i> , 2003 , 34, 1078-88	7.8	107
273	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, 245-58		107
272	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, 8422-7	3.2	105
271	Nitric oxide synthase immunoreactivity in the enteric nervous system of the developing human digestive tract. <i>Cell and Tissue Research</i> , 1994 , 275, 235-45	4.2	104
270	Myocardial contractile function and heart rate in mice with myocyte-specific overexpression of endothelial nitric oxide synthase. <i>Circulation</i> , 2001 , 104, 3097-102	16.7	102
269	Multiple populations of neuropeptide-containing intrinsic neurons in the guinea-pig heart. <i>Neuroscience</i> , 1994 , 62, 241-50	3.9	101
268	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	3.4	100
267	Nitric-oxide synthase: a cytochrome P450 family foster child. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2007 , 1770, 432-45	4	94
266	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 (Pt 1), 193-6	3.8	88
265	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, 151-8	3.7	85
264	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	13	85
263	Tetrahydrobiopterin in nitric oxide synthesis: a novel biological role for pteridines. <i>Current Drug Metabolism</i> , 2002 , 3, 133-57	3.5	84
262	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, 3025-34	5.8	82
261	Role of bound zinc in dimer stabilization but not enzyme activity of neuronal nitric-oxide synthase. <i>Journal of Biological Chemistry</i> , 2000 , 275, 35786-91	5.4	82
260	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, 324-337	3.7	82
259	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, 769-77	3.8	81
258	Nitric oxide synthase in the brain of the turtle <i>Pseudemys scripta elegans</i> . <i>Journal of Comparative Neurology</i> , 1994 , 348, 183-206	3.4	81
257	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, 493-9	4.2	80

256	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		79
255	Potent inhibition of nitroglycerin bioactivation by diphenylethylidone (DIP). <i>BMC Pharmacology & Toxicology</i> , 2013 , 14,	2.6	78
254	Role of the general base Glu268 in nitroglycerin bioactivation and mechanism-based superoxide formation by aldehyde dehydrogenase-2. <i>BMC Pharmacology</i> , 2009 , 9,		78
253	The enigma of nitroglycerin bioactivation and nitrate tolerance: news, views and troubles. <i>British Journal of Pharmacology</i> , 2008 , 155, 170-84	8.6	78
252	Na(+)/Ca(2+) exchange facilitates Ca(2+)-dependent activation of endothelial nitric-oxide synthase. <i>Journal of Biological Chemistry</i> , 1999 , 274, 29529-35	5.4	77
251	Effect of calcium on endothelium-derived relaxing factor formation and cGMP levels in endothelial cells. <i>European Journal of Pharmacology</i> , 1989 , 170, 157-66	5.3	77
250	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	4.7	75
249	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, 457-62	3.4	73
248	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, 353-82	3.4	73
247	Interference of carboxy-PTIO with nitric oxide- and peroxynitrite-mediated reactions. <i>Free Radical Biology and Medicine</i> , 1997 , 22, 787-94	7.8	72
246	Nitric oxide synthase (NOS-I) in Leydig cells of the human testis. <i>Archives of Histology and Cytology</i> , 1995 , 58, 17-30		71
245	Low-temperature optical absorption spectra suggest a redox role for tetrahydrobiopterin in both steps of nitric oxide synthase catalysis. <i>Biochemistry</i> , 2000 , 39, 11763-70	3.2	70
244	Reaction of peroxynitrite with oxyhaemoglobin: interference with photometrical determination of nitric oxide. <i>Biochemical Journal</i> , 1994 , 301 (Pt 3), 645-7	3.8	70
243	Neurochemical characterization of intrinsic neurons in ferret tracheal plexus. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 1996 , 14, 207-16	5.7	69
242	Assessment of nitric oxide synthase activity in vitro and in vivo by gas chromatography-mass spectrometry. <i>Biomedical Applications</i> , 2000 , 742, 143-53		68
241	Analysis of neuronal NO synthase under single-turnover conditions: conversion of Nomega-hydroxyarginine to nitric oxide and citrulline. <i>Biochemistry</i> , 1997 , 36, 10811-6	3.2	67
240	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, 445-64	4.2	67
239	Immunocytochemical and histochemical localization of nitric oxide synthase in the turtle retina. <i>Visual Neuroscience</i> , 1997 , 14, 717-29	1.7	66

238	Nitric oxide synthase and NADP-linked glucose-6-phosphate dehydrogenase are co-localized in brush cells of rat stomach and pancreas. <i>Journal of Histochemistry and Cytochemistry</i> , 1994 , 42, 1317-21	3.4	66
237	Localization of nitric oxide synthase in the brain of the frog, <i>Xenopus laevis</i> . <i>Brain Research</i> , 1996 , 741, 331-43	3.7	65
236	Colocalization of vasoactive intestinal peptide and nitric oxide synthase in neurons of the ferret trachea. <i>Neuroscience</i> , 1993 , 54, 839-43	3.9	65
235	Enzymology of nitric oxide synthases. <i>Methods in Molecular Biology</i> , 1998 , 100, 1-32	1.4	64
234	Nitric oxide synthases: catalytic function and progress towards selective inhibition. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 1998 , 358, 127-33	3.4	64
233	Effects of pH on the structure and function of neuronal nitric oxide synthase. <i>Biochemical Journal</i> , 1998 , 331 (Pt 3), 801-7	3.8	64
232	Expression of rat brain nitric oxide synthase in baculovirus-infected insect cells and characterization of the purified enzyme. <i>Biochemical Journal</i> , 1994 , 304 (Pt 3), 683-6	3.8	64
231	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, 3187-98	16.7	62
230	Neurochemical differentiation of rat enteric neurons during pre- and postnatal life. <i>Cell and Tissue Research</i> , 1997 , 288, 11-23	4.2	61
229	Bioactivation of nitroglycerin by purified mitochondrial and cytosolic aldehyde dehydrogenases. <i>Journal of Biological Chemistry</i> , 2008 , 283, 17873-80	5.4	61
228	The role of tetrahydrobiopterin in the activation of oxygen by nitric-oxide synthase. <i>Journal of Inorganic Biochemistry</i> , 2000 , 81, 207-11	4.2	61
227	Neuronal and endothelial nitric oxide synthase immunoreactivity and NADPH-diaphorase staining in rat and human pancreas: influence of fixation. <i>Histochemistry</i> , 1994 , 102, 353-64		61
226	Characterization of endothelial cell amino acid transport systems involved in the actions of nitric oxide synthase inhibitors. <i>Molecular Pharmacology</i> , 1993 , 44, 615-21	4.3	61
225	Distribution and morphological features of nitrergic neurons in the porcine large intestine. <i>Histochemistry</i> , 1993 , 100, 27-34		58
224	Mechanisms underlying activation of soluble guanylate cyclase by the nitroxyl donor AngeliQ salt. <i>Molecular Pharmacology</i> , 2009 , 76, 1115-22	4.3	56
223	Electrochemistry of pterin cofactors and inhibitors of nitric oxide synthase. <i>Nitric Oxide - Biology and Chemistry</i> , 2001 , 5, 176-86	5	56
222	Nitric oxide synthase neurons in rat brain express more NMDA receptor mRNA than non-NOS neurons. <i>NeuroReport</i> , 1993 , 4, 807-10	1.7	56
221	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, 930-8	7.3	56

220	Distribution pattern, neurochemical features and projections of nitrenergic neurons in the pig small intestine. <i>Annals of Anatomy</i> , 1994 , 176, 515-25	2.9	56
219	Neuronal nitric-oxide synthase interaction with calmodulin-troponin C chimeras. <i>Journal of Biological Chemistry</i> , 1998 , 273, 5451-4	5.4	55
218	TRPC3 contributes to regulation of cardiac contractility and arrhythmogenesis by dynamic interaction with NCX1. <i>Cardiovascular Research</i> , 2015 , 106, 163-73	9.9	54
217	Allosteric modulation of rat brain nitric oxide synthase by the pterin-site enzyme inhibitor 4-aminotetrahydrobiopterin. <i>Biochemical Journal</i> , 1997 , 328 (Pt 2), 349-52	3.8	54
216	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, 220-4	4.3	54
215	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	4.3	54
214	Nitric oxide synthase in the rat carotid body and carotid sinus. <i>Cell and Tissue Research</i> , 1994 , 276, 559-64.	4.2	54
213	Functional cardiac lipolysis in mice critically depends on comparative gene identification-58. <i>Journal of Biological Chemistry</i> , 2013 , 288, 9892-9904	5.4	52
212	Interaction of endothelial and neuronal nitric-oxide synthases with the bradykinin B2 receptor. Binding of an inhibitory peptide to the oxygenase domain blocks uncoupled NADPH oxidation. <i>Journal of Biological Chemistry</i> , 2000 , 275, 5291-6	5.4	52
211	Activation of soluble guanylyl cyclase by the nitrovasodilator 3-morpholinopyridone involves formation of S-nitrosoglutathione. <i>Molecular Pharmacology</i> , 1998 , 54, 207-12	4.3	52
210	Morphological analyses of NADPH-diaphorase/nitric oxide synthase positive structures in human visual cortex. <i>Journal of Neurocytology</i> , 1994 , 23, 770-82		52
209	Nitroergic innervation of the rat esophagus: focus on motor endplates. <i>Journal of the Autonomic Nervous System</i> , 1994 , 49, 227-33		52
208	Thiols and neuronal nitric oxide synthase: complex formation, competitive inhibition, and enzyme stabilization. <i>Biochemistry</i> , 1997 , 36, 4360-6	3.2	51
207	Single-turnover of nitric-oxide synthase in the presence of 4-amino-tetrahydrobiopterin: proposed role for tetrahydrobiopterin as a proton donor. <i>Journal of Biological Chemistry</i> , 2003 , 278, 48602-10	5.4	51
206	S-nitrosation controls gating and conductance of the alpha 1 subunit of class C L-type Ca(2+) channels. <i>Journal of Biological Chemistry</i> , 2001 , 276, 14797-803	5.4	50
205	Immunocytochemical localization of nitric oxide synthase in the brain of the chicken. <i>NeuroReport</i> , 1994 , 5, 2425-8	1.7	50
204	Tetrahydrobiopterin, cytokines, and nitric oxide synthesis. <i>Experimental Biology and Medicine</i> , 1998 , 219, 171-82	3.7	49
203	Characterization of recombinant human endothelial nitric-oxide synthase purified from the yeast <i>Pichia pastoris</i> . <i>Journal of Biological Chemistry</i> , 1999 , 274, 37658-64	5.4	49

202	Inactivation of soluble guanylate cyclase by stoichiometric S-nitrosation. <i>Molecular Pharmacology</i> , 2009 , 75, 886-91	4.3	46
201	Characterization of lipoxygenase metabolites of arachidonic acid in cultured human skin fibroblasts. <i>Lipids and Lipid Metabolism</i> , 1984 , 795, 151-61		46
200	Ca ²⁺ /calmodulin-dependent nitric oxide synthase activity in the human cervix carcinoma cell line ME-180. <i>Biochemical Journal</i> , 1993 , 289 (Pt 2), 357-61	3.8	45
199	Nitric oxide synthase-containing nerve fibers and neurons in the genital tract of the female mouse. <i>Cell and Tissue Research</i> , 1994 , 275, 355-60	4.2	45
198	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 Suppl 12, S54-6	3.1	45
197	Possible inhibitory function of endogenous 15-hydroperoxyeicosatetraenoic acid on prostacyclin formation in bovine aortic endothelial cells. <i>Lipids and Lipid Metabolism</i> , 1986 , 875, 641-53		44
196	Electrochemical determination of S-nitrosothiols with a Clark-type nitric oxide electrode. <i>Analytical Biochemistry</i> , 1998 , 258, 68-73	3.1	43
195	Uptake of nitric oxide synthase inhibitors by macrophage RAW 264.7 cells. <i>Biochemical Journal</i> , 1994 , 301 (Pt 2), 313-6	3.8	43
194	Transient changes in the presence of nitric oxide synthases and nitrotyrosine immunoreactivity after focal cortical lesions. <i>Neuroscience</i> , 1998 , 82, 377-95	3.9	42
193	The alpha-amino group of L-arginine mediates its antioxidant effect. <i>European Journal of Clinical Investigation</i> , 2001 , 31, 98-102	4.6	42
192	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, 437-48	2	42
191	Nitric oxide/cGMP pathway components in the Leydig cells of the human testis. <i>Cell and Tissue Research</i> , 1997 , 287, 161-70	4.2	42
190	Characterization of the East Asian variant of aldehyde dehydrogenase-2: bioactivation of nitroglycerin and effects of Alda-1. <i>Journal of Biological Chemistry</i> , 2010 , 285, 943-52	5.4	41
189	Nitric oxide synthase-expressing neurons are area-specifically distributed within the cerebral cortex of the rat. <i>Neuroscience</i> , 1997 , 81, 321-30	3.9	40
188	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	5	40
187	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	4.2	40
186	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	3.8	38
185	Characterization of neuronal amino acid transporters: uptake of nitric oxide synthase inhibitors and implication for their biological effects. <i>Journal of Neurochemistry</i> , 1995 , 64, 1469-75	6	37

184	Overexpression of neuronal nitric oxide synthase in insect cells reveals requirement of haem for tetrahydrobiopterin binding. <i>Biochemical Journal</i> , 1996 , 315 (Pt 1), 57-63	3.8	37
183	Measurement of prostaglandins, thromboxanes and hydroxy fatty acids by stable isotope dilution gas chromatography/mass spectrometry. <i>Biomedical & Environmental Mass Spectrometry</i> , 1987 , 14, 617-21		37
182	Parasympathetic preganglionic neurons in the spinal cord involved in uterine innervation are cholinergic and nitric oxide-containing. <i>The Anatomical Record</i> , 1995 , 241, 554-62		36
181	Activation of soluble guanylate cyclase by nitrovasodilators is inhibited by oxidized low-density lipoprotein. <i>Biochemical and Biophysical Research Communications</i> , 1990 , 172, 614-9	3.4	36
180	Vascular bioactivation of nitroglycerin is catalyzed by cytosolic aldehyde dehydrogenase-2. <i>Circulation Research</i> , 2012 , 110, 385-93	15.7	35
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