

Bernd Mayer

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.

327
papers

20,231
citations

77
h-index

129
g-index

334
ext. papers

21,041
ext. citations

4.9
avg, IF

6.37
L-index

#	Paper	IF	Citations
327	Characterization of the Inducible and Slow-Releasing Hydrogen Sulfide and Persulfide Donor P*: Insights into Hydrogen Sulfide Signaling. <i>Antioxidants</i> , 2021 , 10,	7.1	2
326	Acrolein exposure from electronic cigarettes. <i>European Heart Journal</i> , 2020 , 41, 1523	9.5	5
325	Identifying potential targets for prevention and treatment of amyotrophic lateral sclerosis based on a screen of medicare prescription drugs. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , 2020 , 21, 235-245	3.6	8
324	Effects of flavoring compounds used in electronic cigarette refill liquids on endothelial and vascular function. <i>PLoS ONE</i> , 2019 , 14, e0222152	3.7	9
323	Site and mechanism of uncoupling of nitric-oxide synthase: Uncoupling by monomerization and other misconceptions. <i>Nitric Oxide - Biology and Chemistry</i> , 2019 , 89, 14-21	5	22
322	Adenosine kinase attenuates cardiomyocyte microtubule stabilization and protects against pressure overload-induced hypertrophy and LV dysfunction. <i>Journal of Molecular and Cellular Cardiology</i> , 2019 , 130, 49-58	5.8	12
321	S-nitrosoglutathione inhibits adipogenesis in 3T3-L1 preadipocytes by S-nitrosation of CCAAT/enhancer-binding protein \square <i>Scientific Reports</i> , 2019 , 9, 15403	4.9	4
320	Irreversible Activation and Stabilization of Soluble Guanylate Cyclase by the Protoporphyrin IX Mimetic Cinaciguat. <i>Molecular Pharmacology</i> , 2018 , 93, 73-78	4.3	16
319	Sustained Formation of Nitroglycerin-Derived Nitric Oxide by Aldehyde Dehydrogenase-2 in Vascular Smooth Muscle without Added Reductants: Implications for the Development of Nitrate Tolerance. <i>Molecular Pharmacology</i> , 2018 , 93, 335-343	4.3	4
318	Modulation of nitric oxide-stimulated soluble guanylyl cyclase activity by cytoskeleton-associated proteins in vascular smooth muscle. <i>Biochemical Pharmacology</i> , 2018 , 156, 168-176	6	3
317	Human Second Window Pre-Conditioning and Post-Conditioning by Nitrite Is Influenced by a Common Polymorphism in Mitochondrial Aldehyde Dehydrogenase. <i>JACC Basic To Translational Science</i> , 2017 , 2, 13-21	8.7	7
316	Intact mitochondrial Ca uniport is essential for agonist-induced activation of endothelial nitric oxide synthase (eNOS). <i>Free Radical Biology and Medicine</i> , 2017 , 102, 248-259	7.8	19
315	Real-time visualization of distinct nitric oxide generation of nitric oxide synthase isoforms in single cells. <i>Nitric Oxide - Biology and Chemistry</i> , 2017 , 70, 59-67	5	17
314	Dipeptidyl peptidase-4 independent cardiac dysfunction links saxagliptin to heart failure. <i>Biochemical Pharmacology</i> , 2017 , 145, 64-80	6	25
313	Cardioprotective effects of 5-hydroxymethylfurfural mediated by inhibition of L-type Ca currents. <i>British Journal of Pharmacology</i> , 2017 , 174, 3640-3653	8.6	20
312	Nitric Oxide and Guanylyl Cyclases: Correlation with Neuropeptides 2017 , 641-652		
311	Scavenging of nitric oxide by hemoglobin in the tunica media of porcine coronary arteries. <i>Nitric Oxide - Biology and Chemistry</i> , 2016 , 54, 8-14	5	9

310	Hydrogen sulfide inhibits endothelial nitric oxide formation and receptor ligand-mediated Ca(2+) release in endothelial and smooth muscle cells. <i>Pharmacological Reports</i> , 2016 , 68, 37-43	3.9	14
309	Formation of Nitric Oxide by Aldehyde Dehydrogenase-2 Is Necessary and Sufficient for Vascular Bioactivation of Nitroglycerin. <i>Journal of Biological Chemistry</i> , 2016 , 291, 24076-24084	5.4	22
308	Selective Irreversible Inhibition of Neuronal and Inducible Nitric-oxide Synthase in the Combined Presence of Hydrogen Sulfide and Nitric Oxide. <i>Journal of Biological Chemistry</i> , 2015 , 290, 24932-44	5.4	12
307	Aldehyde dehydrogenase-independent bioactivation of nitroglycerin in porcine and bovine blood vessels. <i>Biochemical Pharmacology</i> , 2015 , 93, 440-8	6	10
306	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
305	Aerobic nitric oxide-induced thiol nitrosation in the presence and absence of magnesium cations. <i>Free Radical Biology and Medicine</i> , 2014 , 76, 286-98	7.8	15
304	Interaction between neuronal nitric-oxide synthase and tetrahydrobiopterin revisited: studies on the nature and mechanism of tight pterin binding. <i>Biochemistry</i> , 2014 , 53, 1284-95	3.2	8
303	Cell type-specific recycling of tetrahydrobiopterin by dihydrofolate reductase explains differential effects of 7,8-dihydrobiopterin on endothelial nitric oxide synthase uncoupling. <i>Biochemical Pharmacology</i> , 2014 , 90, 246-53	6	16
302	Endothelial dysfunction in adipose triglyceride lipase deficiency. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2014 , 1841, 906-17	5	17
301	Role of the ubiquitin-proteasome system in cardiac dysfunction of adipose triglyceride lipase-deficient mice. <i>Journal of Molecular and Cellular Cardiology</i> , 2014 , 77, 11-9	5.8	4
300	Cardiac oxidative stress in a mouse model of neutral lipid storage disease. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2013 , 1831, 1600-8	5	19
299	Potent inhibition of nitroglycerin bioactivation by diphenyleneiodonium (DIP). <i>BMC Pharmacology & Toxicology</i> , 2013 , 14,	2.6	78
298	Efficient nitrosation of glutathione by nitric oxide. <i>Free Radical Biology and Medicine</i> , 2013 , 63, 51-64	7.8	29
297	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
296	Tetrahydrobiopterin protects soluble guanylate cyclase against oxidative inactivation. <i>Pteridines</i> , 2013 , 24, 47-50	0.6	1
295	Tolerance to nitroglycerin through proteasomal down-regulation of aldehyde dehydrogenase-2 in a genetic mouse model of ascorbate deficiency. <i>British Journal of Pharmacology</i> , 2013 , 168, 1868-77	8.6	9
294	Potent inhibition of aldehyde dehydrogenase-2 by diphenyleneiodonium: focus on nitroglycerin bioactivation. <i>Molecular Pharmacology</i> , 2013 , 84, 407-14	4.3	6
293	Vascular bioactivation of nitroglycerin is catalyzed by cytosolic aldehyde dehydrogenase-2. <i>Circulation Research</i> , 2012 , 110, 385-93	15.7	35

292	Cardiac dysfunction in adipose triglyceride lipase deficiency: treatment with a PPAR α agonist. <i>British Journal of Pharmacology</i> , 2012 , 165, 380-9	8.6	32
291	Vascular bioactivation of nitroglycerin by aldehyde dehydrogenase-2: reaction intermediates revealed by crystallography and mass spectrometry. <i>Journal of Biological Chemistry</i> , 2012 , 287, 38124-34	5.4	24
290	Tetrahydrobiopterin protects soluble guanylate cyclase against oxidative inactivation. <i>Molecular Pharmacology</i> , 2012 , 82, 420-7	4.3	15
289	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
288	Neither nitrite nor nitric oxide mediate toxic effects of nitroglycerin on mitochondria. <i>Journal of Biochemical and Molecular Toxicology</i> , 2011 , 25, 297-302	3.4	7
287	Bioactivation of pentaerythrityl tetranitrate by mitochondrial aldehyde dehydrogenase. <i>Molecular Pharmacology</i> , 2011 , 79, 541-8	4.3	15
286	Site-directed mutagenesis of aldehyde dehydrogenase-2 suggests three distinct pathways of nitroglycerin biotransformation. <i>Molecular Pharmacology</i> , 2011 , 80, 258-66	4.3	22
285	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
284	The bell-shaped curve for peroxynitrite-mediated oxidation and nitration of NO/O $_2$ -* is alive and well. <i>Journal of Biological Chemistry</i> , 2010 , 285, 1e15	5.4	8
283	Activation of endothelial nitric oxide synthase by the pro-apoptotic drug embelin: Striking discrepancy between nitric oxide-mediated cyclic GMP accumulation and L-citrulline formation. <i>Nitric Oxide - Biology and Chemistry</i> , 2010 , 22, 281-9	5	3
282	Effects of statins on nitric oxide/cGMP signaling in human umbilical vein endothelial cells. <i>Pharmacological Reports</i> , 2010 , 62, 100-12	3.9	17
281	Evidence against tetrahydrobiopterin depletion of vascular tissue exposed to nitric oxide/superoxide or nitroglycerin. <i>Free Radical Biology and Medicine</i> , 2010 , 48, 145-52	7.8	12
280	Role of the general base Glu-268 in nitroglycerin bioactivation and superoxide formation by aldehyde dehydrogenase-2. <i>Journal of Biological Chemistry</i> , 2009 , 284, 19878-86	5.4	27
279	Inactivation of soluble guanylate cyclase by stoichiometric S-nitrosation. <i>Molecular Pharmacology</i> , 2009 , 75, 886-91	4.3	46
278	Mechanisms underlying activation of soluble guanylate cyclase by the nitroxyl donor AngeliQ salt. <i>Molecular Pharmacology</i> , 2009 , 76, 1115-22	4.3	56
277	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
276	Different effects of ascorbate deprivation and classical vascular nitrate tolerance on aldehyde dehydrogenase-catalysed bioactivation of nitroglycerin. <i>British Journal of Pharmacology</i> , 2009 , 156, 1248-55	8.6	15
275	Mitochondrial nitrite reduction coupled to soluble guanylate cyclase activation: lack of evidence for a role in the bioactivation of nitroglycerin. <i>Nitric Oxide - Biology and Chemistry</i> , 2009 , 20, 53-60	5	29

274	Selective activation of organic nitrates by, and inactivation of, ALDH isoforms. <i>FASEB Journal</i> , 2009 , 23, LB374	0.9	2
273	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
272	Bioactivation of nitroglycerin by purified mitochondrial and cytosolic aldehyde dehydrogenases. <i>Journal of Biological Chemistry</i> , 2008 , 283, 17873-80	5.4	61
271	Partially irreversible inactivation of mitochondrial aldehyde dehydrogenase by nitroglycerin. <i>Journal of Biological Chemistry</i> , 2008 , 283, 30735-44	5.4	35
270	Vascular tolerance to nitroglycerin in ascorbate deficiency. <i>Cardiovascular Research</i> , 2008 , 79, 304-12	9.9	23
269	Vascular tolerance to nitroglycerin in ascorbate deficiency: results are in favour of an important role of oxidative stress in nitrate tolerance: reply. <i>Cardiovascular Research</i> , 2008 , 79, 724-724	9.9	1
268	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
267	Thermodynamic analysis of L-arginine and N omega-hydroxy-L-arginine binding to nitric oxide synthase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2008 , 1784, 806-10	4	2
266	Reactive complexes in myoglobin and nitric oxide synthase. <i>Inorganica Chimica Acta</i> , 2008 , 361, 831-843	2.7	7
265	Bioactivation of nitroglycerin by ascorbate. <i>Molecular Pharmacology</i> , 2007 , 72, 191-6	4.3	15
264	Nitric-oxide synthase: a cytochrome P450 family foster child. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2007 , 1770, 432-45	4	94
263	Inefficient spin trapping of superoxide in the presence of nitric-oxide: implications for studies on nitric-oxide synthase uncoupling. <i>Free Radical Biology and Medicine</i> , 2006 , 41, 455-63	7.8	25
262	Translocation of endothelial nitric oxide synthase: another feat of amlodipine, a cardiovascular jack-of-all-trades. <i>Cardiovascular Research</i> , 2006 , 71, 411-3	9.9	6
261	High-pressure studies of the reaction mechanism of nitric-oxide synthase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006 , 1764, 578-85	4	6
260	Effects of nitroglycerin/L-cysteine on soluble guanylate cyclase: evidence for an activation/inactivation equilibrium controlled by nitric oxide binding and haem oxidation. <i>Biochemical Journal</i> , 2005 , 390, 625-31	3.8	17
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	Tetrahydrobiopterin as combined electron/proton donor in nitric oxide biosynthesis: cryogenic UV-Vis and EPR detection of reaction intermediates. <i>Methods in Enzymology</i> , 2005 , 396, 456-66	1.7	14
257	Evidence of two distinct oxygen complexes of reduced endothelial nitric oxide synthase. <i>Journal of Biological Chemistry</i> , 2004 , 279, 19824-31	5.4	28

256	Interference of the polyphenol epicatechin with the biological chemistry of nitric oxide- and peroxynitrite-mediated reactions. <i>Biochemical Pharmacology</i> , 2004 , 67, 1285-95	6	26
255	CO exchange of the oxyferrous complexes of endothelial nitric-oxide synthase oxygenase domain in the presence of 4-amino-tetrahydrobiopterin. <i>Journal of Inorganic Biochemistry</i> , 2004 , 98, 1217-22	4.2	9
254	Tetrahydrobiopterin binding to aromatic amino acid hydroxylases. Ligand recognition and specificity. <i>Journal of Medicinal Chemistry</i> , 2004 , 47, 5962-71	8.3	18
253	Consumption of nitric oxide by endothelial cells: evidence for the involvement of a NAD(P)H-, flavin- and heme-dependent dioxygenase reaction. <i>FEBS Letters</i> , 2004 , 577, 199-204	3.8	16
252	Pharmacological interference with dimerization of human neuronal nitric-oxide synthase expressed in adenovirus-infected DLD-1 cells. <i>Molecular Pharmacology</i> , 2003 , 63, 682-9	4.3	16
251	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
250	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
249	Tetrahydrobiopterin and nitric oxide: mechanistic and pharmacological aspects. <i>Experimental Biology and Medicine</i> , 2003 , 228, 1291-302	3.7	112
248	S-nitrosation of glutathione by nitric oxide, peroxynitrite, and (*)NO/O(2)(*-). <i>Free Radical Biology and Medicine</i> , 2003 , 34, 1078-88	7.8	107
247	Bioaktivierung von Nitroglycerin – ein neues Stück im Puzzle. <i>Angewandte Chemie</i> , 2003 , 115, 402-405	3.6	1
246	Bioactivation of nitroglycerin--a new piece in the puzzle. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 388-91	16.4	13
245	Gibbs energies of reactive species involved in peroxynitrite chemistry calculated by density functional theory. <i>Computational and Theoretical Chemistry</i> , 2003 , 623, 95-103		7
244	Two modes of binding of N-hydroxyguanidines to NO synthases: first evidence for the formation of iron-N-hydroxyguanidine complexes and key role of tetrahydrobiopterin in determining the binding mode. <i>Biochemistry</i> , 2003 , 42, 3858-67	3.2	15
243	Formation of transient oxygen complexes of cytochrome p450 BM3 and nitric oxide synthase under high pressure. <i>Biophysical Journal</i> , 2003 , 85, 3303-9	2.9	13
242	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
241	Lack of involvement of extracellular signal-regulated kinase (ERK) in the agonist-induced endothelial nitric oxide synthesis. <i>Biochemical Pharmacology</i> , 2002 , 63, 1137-42	6	12
240	Antioxidative and myocardial protective effects of L-arginine in oxygen radical-induced injury of isolated perfused rat hearts. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2002 , 365, 269-76	3.4	13
239	Functional and analytical evidence for scavenging of oxygen radicals by L-arginine. <i>Molecular Pharmacology</i> , 2002 , 61, 1081-8	4.3	113

238	Protein tyrosine nitration and peroxynitrite: reply. <i>FASEB Journal</i> , 2002 , 16, 1854	0.9	2
237	Effect of hypercholesterolemia on expression and function of vascular soluble guanylyl cyclase. <i>Circulation</i> , 2002 , 105, 855-60	16.7	29
236	Enzymology of Nitric Oxide Biosynthesis 2002 , 57-76		
235	Desensitization of endothelial nitric oxide synthase by receptor agonists. <i>Biochemical Journal</i> , 2002 , 364, 863-8	3.8	7
234	Redox role for tetrahydrobiopterin in nitric oxide synthase catalysis: low-temperature optical absorption spectral detection. <i>Methods in Enzymology</i> , 2002 , 353, 114-21	1.7	8
233	Binding of L-arginine and imidazole suggests heterogeneity of rat brain neuronal nitric oxide synthase. <i>Biochemistry</i> , 2002 , 41, 7819-29	3.2	18
232	Tetrahydrobiopterin in nitric oxide synthesis: a novel biological role for pteridines. <i>Current Drug Metabolism</i> , 2002 , 3, 133-57	3.5	84
231	L-Ascorbic Acid Increases Intracellular Tetrahydrobiopterin Via A Chemical Stabilization and Potentiates Nitric Oxide Synthesis in Endothelial Cells 2002 , 265-270		
230	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
229	Nitric oxide synthase in the spinal cord of the frog, <i>Xenopus laevis</i> . <i>Cell and Tissue Research</i> , 2001 , 305, 457-62	4.2	15
228	Use of high pressure to study elementary steps in P450 and nitric oxide synthase. <i>Journal of Inorganic Biochemistry</i> , 2001 , 87, 191-5	4.2	12
227	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
226	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
225	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
224	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
223	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
222	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
221	Electrochemistry of pterin cofactors and inhibitors of nitric oxide synthase. <i>Nitric Oxide - Biology and Chemistry</i> , 2001 , 5, 176-86	5	56

220	Nitric oxide synthase-I containing cortical interneurons co-express antioxidative enzymes and anti-apoptotic Bcl-2 following focal ischemia: evidence for direct and indirect mechanisms towards their resistance to neuropathology. <i>Journal of Chemical Neuroanatomy</i> , 2001 , 22, 167-84	3.2	23
219	Comparison of neuronal and endothelial isoforms of nitric oxide synthase in stably transfected HEK 293 cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001 , 281, H2053-61	5.2	15
218	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
217	Suramin and the suramin analogue NF307 discriminate among calmodulin-binding sites. <i>Biochemical Journal</i> , 2001 , 355, 827-33	3.8	23
216	Assay of tissue activity of nitric oxide synthase. <i>Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al]</i> , 2001 , Chapter 10, Unit 10.2	1	3
215	Nitric oxide-induced autoinhibition of neuronal nitric oxide synthase in the presence of the autoxidation-resistant pteridine 5-methyltetrahydrobiopterin. <i>Biochemical Journal</i> , 2000 , 347, 475-84	3.8	10
214	Nitric oxide-induced autoinhibition of neuronal nitric oxide synthase in the presence of the autoxidation-resistant pteridine 5-methyltetrahydrobiopterin. <i>Biochemical Journal</i> , 2000 , 347, 475-484	3.8	19
213	Contrasting effects of N5-substituted tetrahydrobiopterin derivatives on phenylalanine hydroxylase, dihydropteridine reductase and nitric oxide synthase. <i>Biochemical Journal</i> , 2000 , 348, 579-583	3.8	11
212	Novel mode of nitric oxide neurotransmission mediated via S-nitroso-cysteinyl-glycine. <i>European Journal of Neuroscience</i> , 2000 , 12, 3919-25	3.5	11
211	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
210	Inhibition of endotoxin-induced vascular hyporeactivity by 4-amino-tetrahydrobiopterin. <i>British Journal of Pharmacology</i> , 2000 , 131, 1757-65	8.6	8
209	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
208	Inhibitory effects of aclarubicin on nitric oxide production in aortic smooth muscle cells and macrophages. <i>Biochemical Pharmacology</i> , 2000 , 59, 719-26	6	5
207	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
206	Inhibition of purified soluble guanylyl cyclase by L-ascorbic acid. <i>Cardiovascular Research</i> , 2000 , 47, 602-89.9		14
205	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
204	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
203	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

202	Nitric oxide synthases catalyze superoxide formation. <i>FEBS Letters</i> , 2000 , 481, 304	3.8	5
201	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
200	Nitric oxide-containing neurons in the bovine gut, with special reference to their relationship with VIP and galanin. <i>Archives of Histology and Cytology</i> , 2000 , 63, 357-68		23
199	Contrasting effects of N5-substituted tetrahydrobiopterin derivatives on phenylalanine hydroxylase, dihydropteridine reductase and nitric oxide synthase. <i>Biochemical Journal</i> , 2000 , 348 Pt 3, 579-83	3.8	2
198	Contrasting effects of N5-substituted tetrahydrobiopterin derivatives on phenylalanine hydroxylase, dihydropteridine reductase and nitric oxide synthase. <i>Biochemical Journal</i> , 2000 , 348, 579	3.8	2
197	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
196	Histochemical and immunocytochemical study of nitrenergic innervation in human nasal mucosa. <i>Annals of Otology, Rhinology and Laryngology</i> , 1999 , 108, 869-75	2.1	14
195	Enzymatic function of nitric oxide synthases. <i>Cardiovascular Research</i> , 1999 , 43, 521-31	9.9	486
194	Nitric oxide synthase expression in the opossum superior colliculus: a histochemical, immunohistochemical and biochemical study. <i>Brain, Behavior and Evolution</i> , 1999 , 54, 303-13	1.5	11
193	Activation of neuronal nitric-oxide synthase by the 5-methyl analog of tetrahydrobiopterin. Functional evidence against reductive oxygen activation by the pterin cofactor. <i>Journal of Biological Chemistry</i> , 1999 , 274, 16047-51	5.4	34
192	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
191	NADPH-diaphorase and NOS enzymatic activities in some neurons of reptilian gut and their relationships with two neuropeptides. <i>Anatomy and Embryology</i> , 1999 , 199, 397-405		21
190	Differential maturational patterns of nitric oxide synthase-I and NADPH diaphorase in functionally distinct cortical areas of the mouse cerebral cortex. <i>Anatomy and Embryology</i> , 1999 , 200, 27-41		29
189	Different nitric oxide synthase inhibitors cause rapid and differential alterations in the ligand-binding capacity of transmitter receptors in the rat cerebral cortex. <i>Annals of Anatomy</i> , 1999 , 181, 345-51	2.9	13
188	Preferential inhibition of inducible nitric oxide synthase in intact cells by the 4-amino analogue of tetrahydrobiopterin. <i>FEBS Journal</i> , 1999 , 259, 25-31		34
187	Stickstoffmonoxid: die räselhafte Chemie eines biologischen Botenstoffes. <i>Angewandte Chemie</i> , 1999 , 111, 1824-1844	3.6	13
186	Nitric Oxide: Chemical Puzzles Posed by a Biological Messenger. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 1714-1731	16.4	224
185	Innervation of the fibro-elastic type of the penis: an immunohistochemical study in the male pig. <i>Acta Histochemica</i> , 1999 , 101, 71-101	2	14

184	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
183	Dynamics of carbon monoxide binding with neuronal nitric oxide synthase. <i>Biochemistry</i> , 1999 , 38, 7210-8	3.2	21
182	Inhibition of Nitric Oxide Synthases by the 4-Amino Analogue of Tetrahydrobiopterin 1999 , 261-271		
181	Determination of NO with a Clark-type electrode. <i>Methods in Molecular Biology</i> , 1998 , 100, 101-9	1.4	10
180	Enzymology of nitric oxide synthases. <i>Methods in Molecular Biology</i> , 1998 , 100, 1-32	1.4	64
179	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
178	Isoform-specific effects of salts on nitric oxide synthase activity. <i>BBA - Proteins and Proteomics</i> , 1998 , 1387, 257-63		16
177	Reaction of peroxynitrite with HEPES or MOPS results in the formation of nitric oxide donors. <i>Free Radical Biology and Medicine</i> , 1998 , 24, 859-62	7.8	24
176	Electrochemical determination of S-nitrosothiols with a Clark-type nitric oxide electrode. <i>Analytical Biochemistry</i> , 1998 , 258, 68-73	3.1	43
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23	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

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21	Partial Purification and Characterization of a Ca ²⁺ /Calmodulin-Dependent Endothelium-Derived Relaxing Factor-Forming Enzyme from Porcine Cerebellum. <i>Journal of Cardiovascular Pharmacology</i> , 1991 , 17, S46-S51	3.1	16
20	Current Knowledge on Pteridine Dependence of Nitric Oxide Synthase. <i>Pteridines</i> , 1991 , 3, 49-50	0.6	1
19	Oxidized low-density lipoprotein antagonizes the activation of purified soluble guanylate cyclase by endothelium-derived relaxing factor but does not interfere with its biosynthesis. <i>Cellular Signalling</i> , 1991 , 3, 361-7	4.9	11
18	Stimulation of Soluble Guanylate Cyclase by Endothelium-Derived Relaxing Factor Is Antagonized by Oxidized Low-Density Lipoprotein. <i>Journal of Cardiovascular Pharmacology</i> , 1991 , 17, S83-S88	3.1	12
17	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
16	Purification of soluble guanylyl cyclase from bovine lung by a new immunoaffinity chromatographic method. <i>FEBS Journal</i> , 1990 , 190, 273-8		147
15	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
14	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
13	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
12	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
11	Ca ²⁺ -dependent formation of an L-arginine-derived activator of soluble guanylyl cyclase in bovine lung. <i>FEBS Letters</i> , 1989 , 256, 211-4	3.8	34
10	Formation of 6,15-diketoprostaglandin F1 alpha from prostaglandin G2 by bovine aortic endothelial cells. <i>Lipids and Lipid Metabolism</i> , 1987 , 918, 209-16		2
9	Quantitative measurement of 5-, 12-, and 15-hydroxyeicosatetraenoic acid together with 12-hydroxyheptadecatrienoic acid by stable isotope dilution gas chromatography-negative ion chemical ionization-mass spectrometry. <i>Analytical Biochemistry</i> , 1987 , 162, 337-44	3.1	26
8	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
7	Rapid separation of arachidonic acid metabolites by silicic acid chromatography for subsequent quantitative analysis by gas chromatography-mass spectrometry. <i>Biomedical Applications</i> , 1986 , 378, 430-6		21
6	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
5	Qualitative and quantitative measurement of hydroxy fatty acids, thromboxanes and prostaglandins using stable isotope dilutions and detection by gas chromatography-mass spectrometry. <i>Biomedical Applications</i> , 1985 , 344, 11-21		30

4	Arachidonic acid metabolism in human skin fibroblast cultures. <i>Fresenius Zeitschrift für Analytische Chemie</i> , 1984 , 317, 740-741	1
3	Characterization of lipoxygenase metabolites of arachidonic acid in cultured human skin fibroblasts. <i>Lipids and Lipid Metabolism</i> , 1984 , 795, 151-61	46
2	Determination of prostaglandin F2 alpha and 6-oxo-prostaglandin F1 alpha in urine by gas chromatography--positive chemical ionisation-mass spectrometry using stable isotope dilutions with selected ion monitoring. <i>Biomedical Applications</i> , 1983 , 273, 161-5	8
1	Direct coupling of fused silica columns to the ion source of a mass spectrometer applied to studies of arachidonic acid metabolism in human fibroblasts. <i>Biomedical Applications</i> , 1983 , 273, 166-71	3