Dennis J Stuehr

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.

 229
 15,717
 68
 118

 papers
 citations
 h-index
 g-index

 235
 16,698
 6
 6.4

 ext. papers
 ext. citations
 avg, IF
 L-index

#	Paper	IF	Citations
229	NO rapidly mobilizes cellular heme to trigger assembly of its own receptor <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119,	11.5	4
228	Indoleamine dioxygenase and tryptophan dioxygenase activities are regulated through GAPDH-and Hsp90-dependent control of their heme levels <i>Free Radical Biology and Medicine</i> , 2022 , 180, 179-19	9 7 .8	3
227	GAPDH is involved in the heme-maturation of myoglobin and hemoglobin FASEB Journal, 2022, 36, e22	2099	3
226	Conformational states and fluctuations in endothelial nitric oxide synthase under calmodulin regulation. <i>Biophysical Journal</i> , 2021 , 120, 5196-5206	2.9	O
225	Disease-specific platelet signaling defects in idiopathic pulmonary arterial hypertension. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2021 , 320, L739-L749	5.8	3
224	Inactivation of soluble guanylyl cyclase in living cells proceeds without loss of haem and involves heterodimer dissociation as a common step. <i>British Journal of Pharmacology</i> , 2021 ,	8.6	4
223	Calcium Calcium Signaling: NO Synthase 2021 , 602-608		
222	Maturation, inactivation, and recovery mechanisms of soluble guanylyl cyclase. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100336	5.4	13
221	An inherent dysfunction in soluble guanylyl cyclase is present in the airway of severe asthmatics and is associated with aberrant redox enzyme expression and compromised NO-cGMP signaling. <i>Redox Biology</i> , 2021 , 39, 101832	11.3	5
220	Nitric oxide and heme-NO stimulate superoxide production by NADPH oxidase 5. <i>Free Radical Biology and Medicine</i> , 2021 , 172, 252-263	7.8	1
219	GAPDH delivers heme to soluble guanylyl cyclase. <i>Journal of Biological Chemistry</i> , 2020 , 295, 8145-8154	5.4	20
218	Tyrosine nitration on calmodulin enhances calcium-dependent association and activation of nitric-oxide synthase. <i>Journal of Biological Chemistry</i> , 2020 , 295, 2203-2211	5.4	12
217	Specific O-GlcNAc modification at Ser-615 modulates eNOS function. <i>Redox Biology</i> , 2020 , 36, 101625	11.3	9
216	Dynamic regulation of NADPH oxidase 5 by intracellular heme levels and cellular chaperones. <i>Redox Biology</i> , 2020 , 36, 101656	11.3	6
215	Metal binding and conformational studies of the calcium binding domain of NADPH oxidase 5 reveal its similarity and difference to calmodulin. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020 , 38, 2352-2368	3.6	2
214	Soluble Guanylate Cyclase Agonists Induce Bronchodilation in Human Small Airways. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2020 , 62, 43-48	5.7	7
213	Unbiased proteomics identifies plasminogen activator inhibitor-1 as a negative regulator of endothelial nitric oxide synthase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 9497-9507	11.5	9

(2016-2019)

21	12	Myoglobin maturation is driven by the hsp90 chaperone machinery and by soluble guanylyl cyclase. <i>FASEB Journal</i> , 2019 , 33, 9885-9896	0.9	9	
21	[1	Mechanism and regulation of ferrous heme-nitric oxide (NO) oxidation in NO synthases. <i>Journal of Biological Chemistry</i> , 2019 , 294, 7904-7916	5.4	14	
21	10	Heat shock protein 90 regulates soluble guanylyl cyclase maturation by a dual mechanism. <i>Journal of Biological Chemistry</i> , 2019 , 294, 12880-12891	5.4	10	
20	09	Hsp90 and Its Role in Heme-Maturation of Client Proteins: Implications for Human Diseases. <i>Heat Shock Proteins</i> , 2019 , 251-268	0.2	1	
20	28	Nitric oxide synthase enzymology in the 20 years after the Nobel Prize. <i>British Journal of Pharmacology</i> , 2019 , 176, 177-188	8.6	64	
20	97	Hsp90 chaperones hemoglobin maturation in erythroid and nonerythroid cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E1117-E1126	11.5	27	
20	o6	A cross-domain charge interaction governs the activity of NO synthase. <i>Journal of Biological Chemistry</i> , 2018 , 293, 4545-4554	5.4	7	
20	05	Glyceraldehyde-3-phosphate dehydrogenase is a chaperone that allocates labile heme in cells. <i>Journal of Biological Chemistry</i> , 2018 , 293, 14557-14568	5.4	53	
20	94	Nitric oxide alters hyaluronan deposition by airway smooth muscle cells. <i>PLoS ONE</i> , 2018 , 13, e0200074	3.7		
20	03	Regulation of sGC via hsp90, Cellular Heme, sGC Agonists, and NO: New Pathways and Clinical Perspectives. <i>Antioxidants and Redox Signaling</i> , 2017 , 26, 182-190	8.4	17	
20	02	Restricting the conformational freedom of the neuronal nitric-oxide synthase flavoprotein domain reveals impact on electron transfer and catalysis. <i>Journal of Biological Chemistry</i> , 2017 , 292, 6753-6764	5.4	5	
20	01	Endothelial nitric oxide synthase oxygenase on lipid nanodiscs: A nano-assembly reflecting native-like function of eNOS. <i>Biochemical and Biophysical Research Communications</i> , 2017 , 493, 1438-14	4 3 2 ⁴	3	
20	00	Tetrahydrobiopterin redox cycling in nitric oxide synthase: evidence supports a through-heme electron delivery. <i>FEBS Journal</i> , 2016 , 283, 4491-4501	5.7	9	
19	99	Occurrence, structure, and evolution of nitric oxide synthase-like proteins in the plant kingdom. <i>Science Signaling</i> , 2016 , 9, re2	8.8	155	
19	98	Phosphorylation Controls Endothelial Nitric-oxide Synthase by Regulating Its Conformational Dynamics. <i>Journal of Biological Chemistry</i> , 2016 , 291, 23047-23057	5.4	12	
19	97	Mutants of Cytochrome P450 Reductase Lacking Either Gly-141 or Gly-143 Destabilize Its FMN Semiquinone. <i>Journal of Biological Chemistry</i> , 2016 , 291, 14639-61	5.4	13	
19	96	Phosphorylation inactivation of endothelial nitric oxide synthesis in pulmonary arterial hypertension. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016 , 310, L1199-	-205	29	
19	95	Ascorbate attenuates pulmonary emphysema by inhibiting tobacco smoke and Rtp801-triggered lung protein modification and proteolysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E4208-17	11.5	25	

194	Engineering nitric oxide synthase chimeras to function as NO dioxygenases. <i>Journal of Inorganic Biochemistry</i> , 2016 , 158, 122-130	4.2	6
193	Soluble guanylate cyclase as an alternative target for bronchodilator therapy in asthma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E2355-62	11.5	36
192	Heat Shock Protein 90 Associates with the Per-Arnt-Sim Domain of Heme-free Soluble Guanylate Cyclase: IMplications for Enzyme Maturation. <i>Journal of Biological Chemistry</i> , 2015 , 290, 21615-28	5.4	18
191	14-3-3 in Thoracic Aortic Aneurysms: Identification of a Novel Autoantigen in Large Vessel Vasculitis. <i>Arthritis and Rheumatology</i> , 2015 , 67, 1913-21	9.5	24
190	The exchanged EF-hands in calmodulin and troponin C chimeras impair the Call+-induced hydrophobicity and alter the interaction with Orai1: a spectroscopic, thermodynamic and kinetic study. <i>BMC Biochemistry</i> , 2015 , 16, 6	4.8	10
189	Dissecting structural and electronic effects in inducible nitric oxide synthase. <i>Biochemical Journal</i> , 2015 , 467, 153-65	3.8	4
188	Single-molecule spectroscopy reveals how calmodulin activates NO synthase by controlling its conformational fluctuation dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 11835-40	11.5	34
187	Novel insights in mammalian catalase heme maturation: effect of NO and thioredoxin-1. <i>Free Radical Biology and Medicine</i> , 2015 , 82, 105-13	7.8	19
186	A bipartite interaction between Hsp70 and CHIP regulates ubiquitination of chaperoned client proteins. <i>Structure</i> , 2015 , 23, 472-482	5.2	54
185	Distinct conformational behaviors of four mammalian dual-flavin reductases (cytochrome P450 reductase, methionine synthase reductase, neuronal nitric oxide synthase, endothelial nitric oxide synthase) determine their unique catalytic profiles. <i>FEBS Journal</i> , 2014 , 281, 5325-40	5.7	18
184	Hydrogen sulfide and nitric oxide metabolites in the blood of free-ranging brown bears and their potential roles in hibernation. <i>Free Radical Biology and Medicine</i> , 2014 , 73, 349-57	7.8	26
183	Cotransplantation with myeloid-derived suppressor cells protects cell transplants: a crucial role of inducible nitric oxide synthase. <i>Transplantation</i> , 2014 , 97, 740-7	1.8	31
182	Nitric oxide and heat shock protein 90 activate soluble guanylate cyclase by driving rapid change in its subunit interactions and heme content. <i>Journal of Biological Chemistry</i> , 2014 , 289, 15259-71	5.4	44
181	Tetrahydrobiopterin in nitric oxide synthase. <i>IUBMB Life</i> , 2013 , 65, 358-65	4.7	50
180	Charge-pairing interactions control the conformational setpoint and motions of the FMN domain in neuronal nitric oxide synthase. <i>Biochemical Journal</i> , 2013 , 450, 607-17	3.8	14
179	A pivotal role for tryptophan 447 in enzymatic coupling of human endothelial nitric oxide synthase (eNOS): effects on tetrahydrobiopterin-dependent catalysis and eNOS dimerization. <i>Journal of Biological Chemistry</i> , 2013 , 288, 29836-45	5.4	17
178	Ascorbate in aqueous humor augments nitric oxide production by macrophages. <i>Journal of Immunology</i> , 2013 , 190, 556-64	5.3	6
177	Thermodynamic characterization of five key kinetic parameters that define neuronal nitric oxide synthase catalysis. <i>FEBS Journal</i> , 2013 , 280, 4439-53	5.7	14

(2010-2013)

176	Catalytic intermediates of inducible nitric-oxide synthase stabilized by the W188H mutation. Journal of Biological Chemistry, 2013 , 288, 6095-106	5.4	13
175	Mechanism of inducible nitric-oxide synthase dimerization inhibition by novel pyrimidine imidazoles. <i>Journal of Biological Chemistry</i> , 2013 , 288, 19685-97	5.4	21
174	Spectroscopic, catalytic and binding properties of Bacillus subtilis NO synthase-like protein: comparison with other bacterial and mammalian NO synthases. <i>Journal of Inorganic Biochemistry</i> , 2012 , 106, 164-71	4.2	7
173	Arg375 tunes tetrahydrobiopterin functions and modulates catalysis by inducible nitric oxide synthase. <i>Journal of Inorganic Biochemistry</i> , 2012 , 108, 203-15	4.2	9
172	Protection of extraribosomal RPL13a by GAPDH and dysregulation by S-nitrosylation. <i>Molecular Cell</i> , 2012 , 47, 656-63	17.6	58
171	Soluble guanylyl cyclase requires heat shock protein 90 for heme insertion during maturation of the NO-active enzyme. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 12998-3003	11.5	45
170	Characterization of the 1st and 2nd EF-hands of NADPH oxidase 5 by fluorescence, isothermal titration calorimetry, and circular dichroism. <i>Chemistry Central Journal</i> , 2012 , 6, 29		12
169	Heme binding properties of glyceraldehyde-3-phosphate dehydrogenase. <i>Biochemistry</i> , 2012 , 51, 8514-	29 .2	45
168	Thioredoxin-1 regulates cellular heme insertion by controlling S-nitrosation of glyceraldehyde-3-phosphate dehydrogenase. <i>Journal of Biological Chemistry</i> , 2012 , 287, 16179-86	5.4	21
167	Control of electron transfer and catalysis in neuronal nitric-oxide synthase (nNOS) by a hinge connecting its FMN and FAD-NADPH domains. <i>Journal of Biological Chemistry</i> , 2012 , 287, 30105-16	5.4	23
166	Mesohaem substitution reveals how haem electronic properties can influence the kinetic and catalytic parameters of neuronal NO synthase. <i>Biochemical Journal</i> , 2011 , 433, 163-74	3.8	9
165	A kinetic model linking protein conformational motions, interflavin electron transfer and electron flux through a dual-flavin enzyme-simulating the reductase activity of the endothelial and neuronal nitric oxide synthase flavoprotein domains. <i>FEBS Journal</i> , 2011 , 278, 4055-69	5.7	17
164	Influence of heme-thiolate in shaping the catalytic properties of a bacterial nitric-oxide synthase. Journal of Biological Chemistry, 2011 , 286, 39224-35	5.4	19
163	Hsp90 interacts with inducible NO synthase client protein in its heme-free state and then drives heme insertion by an ATP-dependent process. <i>FASEB Journal</i> , 2011 , 25, 2049-60	0.9	46
162	NO synthase isoforms specifically modify peroxynitrite reactivity. FEBS Journal, 2010, 277, 3963-73	5.7	10
161	Lys842 in neuronal nitric-oxide synthase enables the autoinhibitory insert to antagonize calmodulin binding, increase FMN shielding, and suppress interflavin electron transfer. <i>Journal of Biological Chemistry</i> , 2010 , 285, 3064-75	5.4	14
160	Surface charges and regulation of FMN to heme electron transfer in nitric-oxide synthase. <i>Journal of Biological Chemistry</i> , 2010 , 285, 27232-27240	5.4	37
159	A bridging interaction allows calmodulin to activate NO synthase through a bi-modal mechanism. Journal of Biological Chemistry, 2010 , 285, 25941-9	5.4	27

158	Role of arginine guanidinium moiety in nitric-oxide synthase mechanism of oxygen activation. Journal of Biological Chemistry, 2010 , 285, 7233-45	5.4	24
157	GAPDH regulates cellular heme insertion into inducible nitric oxide synthase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 18004-9	11.5	92
156	Nitric oxide blocks cellular heme insertion into a broad range of heme proteins. <i>Free Radical Biology and Medicine</i> , 2010 , 48, 1548-58	7.8	33
155	How does a valine residue that modulates heme-NO binding kinetics in inducible NO synthase regulate enzyme catalysis?. <i>Journal of Inorganic Biochemistry</i> , 2010 , 104, 349-56	4.2	19
154	Conformational States and kinetics of the calcium binding domain of NADPH oxidase 5. <i>The Open Biochemistry Journal</i> , 2010 , 4, 59-67	0.9	12
153	Neutralizing a surface charge on the FMN subdomain increases the activity of neuronal nitric-oxide synthase by enhancing the oxygen reactivity of the enzyme heme-nitric oxide complex. <i>Journal of Biological Chemistry</i> , 2009 , 284, 19237-47	5.4	23
152	Characterization of the proximal ligand in the P420 form of inducible nitric oxide synthase. <i>Journal of the American Chemical Society</i> , 2009 , 131, 12186-92	16.4	22
151	Glucose-mediated tyrosine nitration in adipocytes: targets and consequences. <i>Free Radical Biology and Medicine</i> , 2009 , 46, 884-92	7.8	17
150	Structural and mechanistic aspects of flavoproteins: electron transfer through the nitric oxide synthase flavoprotein domain. <i>FEBS Journal</i> , 2009 , 276, 3959-74	5.7	100
149	Fast ferrous heme-NO oxidation in nitric oxide synthases. FEBS Journal, 2009, 276, 4505-14	5.7	20
148	Function of mitochondrial Stat3 in cellular respiration. <i>Science</i> , 2009 , 323, 793-7	33.3	702
147	Regulation of FMN subdomain interactions and function in neuronal nitric oxide synthase. <i>Biochemistry</i> , 2009 , 48, 3864-76	3.2	48
146	Role of substrate functional groups in binding to nitric oxide synthase. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 382, 21-5	3.4	1
145	Glucose-modulated tyrosine nitration in beta cells: targets and consequences. <i>Archives of Biochemistry and Biophysics</i> , 2009 , 484, 221-31	4.1	30
144	Anchored plasticity opens doors for selective inhibitor design in nitric oxide synthase. <i>Nature Chemical Biology</i> , 2008 , 4, 700-7	11.7	156
143	Generation of nitroxyl by heme protein-mediated peroxidation of hydroxylamine but not N-hydroxy-L-arginine. <i>Free Radical Biology and Medicine</i> , 2008 , 45, 578-84	7.8	69
142	Metabolic activation of the antitumor drug 5-(Aziridin-1-yl)-2,4-dinitrobenzamide (CB1954) by NO synthases. <i>Chemical Research in Toxicology</i> , 2008 , 21, 836-43	4	22
141	Catalytic reduction of a tetrahydrobiopterin radical within nitric-oxide synthase. <i>Journal of Biological Chemistry</i> , 2008 , 283, 11734-42	5.4	59

(2006-2008)

140	Differences in a conformational equilibrium distinguish catalysis by the endothelial and neuronal nitric-oxide synthase flavoproteins. <i>Journal of Biological Chemistry</i> , 2008 , 283, 19603-15	5.4	45
139	BYK191023 (2-[2-(4-methoxy-pyridin-2-yl)-ethyl]-3h-imidazo[4,5-b]pyridine) is an NADPH- and time-dependent irreversible inhibitor of inducible nitric-oxide synthase. <i>Molecular Pharmacology</i> , 2008 , 73, 1244-53	4.3	9
138	Stabilization and characterization of a heme-oxy reaction intermediate in inducible nitric-oxide synthase. <i>Journal of Biological Chemistry</i> , 2008 , 283, 33498-507	5.4	40
137	Bacterial nitric-oxide synthases operate without a dedicated redox partner. <i>Journal of Biological Chemistry</i> , 2008 , 283, 13140-7	5.4	116
136	Inhibitory effects of a series of 7-substituted-indazoles toward nitric oxide synthases: particular potency of 1H-indazole-7-carbonitrile. <i>Bioorganic and Medicinal Chemistry</i> , 2008 , 16, 5962-73	3.4	16
135	A connecting hinge represses the activity of endothelial nitric oxide synthase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 9254-9	11.5	55
134	Versatile regulation of neuronal nitric oxide synthase by specific regions of its C-terminal tail. <i>Biochemistry</i> , 2007 , 46, 14418-28	3.2	30
133	Substrate- and isoform-specific dioxygen complexes of nitric oxide synthase. <i>Journal of the American Chemical Society</i> , 2007 , 129, 6943-51	16.4	46
132	Distal Val346Ile mutation in inducible NO synthase promotes substrate-dependent NO confinement. <i>Biochemistry</i> , 2007 , 46, 13533-40	3.2	14
131	Oxygenase domain of Drosophila melanogaster nitric oxide synthase: unique kinetic parameters enable a more efficient NO release. <i>Biochemistry</i> , 2007 , 46, 11857-64	3.2	6
130	Novel mechanism of activation of NADPH oxidase 5. calcium sensitization via phosphorylation. <i>Journal of Biological Chemistry</i> , 2007 , 282, 6494-507	5.4	160
129	Activation of peroxynitrite by inducible nitric-oxide synthase: a direct source of nitrative stress. <i>Journal of Biological Chemistry</i> , 2007 , 282, 14101-12	5.4	27
128	Bacterial flavodoxins support nitric oxide production by Bacillus subtilis nitric-oxide synthase. <i>Journal of Biological Chemistry</i> , 2007 , 282, 2196-202	5.4	68
127	Alterations of cellular bioenergetics in pulmonary artery endothelial cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 1342-7	11.5	284
126	Tyk2 tyrosine kinase expression is required for the maintenance of mitochondrial respiration in primary pro-B lymphocytes. <i>Molecular and Cellular Biology</i> , 2006 , 26, 8562-71	4.8	31
125	Surface charge interactions of the FMN module govern catalysis by nitric-oxide synthase. <i>Journal of Biological Chemistry</i> , 2006 , 281, 36819-27	5.4	51
124	Regulation of the monomer-dimer equilibrium in inducible nitric-oxide synthase by nitric oxide. Journal of Biological Chemistry, 2006 , 281, 8197-204	5.4	26
123	Differential effects of alkyl- and arylguanidines on the stability and reactivity of inducible NOS heme-dioxygen complexes. <i>Biochemistry</i> , 2006 , 45, 3988-99	3.2	11

122	Role of Asp1393 in catalysis, flavin reduction, NADP(H) binding, FAD thermodynamics, and regulation of the nNOS flavoprotein. <i>Biochemistry</i> , 2006 , 45, 12596-609	3.2	20
121	Resonance Raman study of Bacillus subtilis NO synthase-like protein: similarities and differences with mammalian NO synthases. <i>Biochemistry</i> , 2006 , 45, 1480-9	3.2	33
120	Reactivity of the heme-dioxygen complex of the inducible nitric oxide synthase in the presence of alternative substrates. <i>FEBS Journal</i> , 2006 , 273, 180-91	5.7	10
119	Exploring the redox reactions between heme and tetrahydrobiopterin in the nitric oxide synthases. <i>Dalton Transactions</i> , 2005 , 3427-35	4.3	34
118	A tryptophan that modulates tetrahydrobiopterin-dependent electron transfer in nitric oxide synthase regulates enzyme catalysis by additional mechanisms. <i>Biochemistry</i> , 2005 , 44, 4676-90	3.2	21
117	Luminescent ruthenium(II)- and rhenium(I)-diimine wires bind nitric oxide synthase. <i>Journal of the American Chemical Society</i> , 2005 , 127, 5169-73	16.4	65
116	Picosecond photoreduction of inducible nitric oxide synthase by rhenium(I)-diimine wires. <i>Journal of the American Chemical Society</i> , 2005 , 127, 15907-15	16.4	52
115	Immunohistochemical detection and Western blot analysis of nitrated protein in stored human corneal epithelium. <i>Experimental Eye Research</i> , 2005 , 80, 509-14	3.7	4
114	Abnormalities in nitric oxide and its derivatives in lung cancer. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2005 , 172, 597-605	10.2	94
113	Relationship between the structure of guanidines and N-hydroxyguanidines, their binding to inducible nitric oxide synthase (iNOS) and their iNOS-catalysed oxidation to NO. <i>FEBS Journal</i> , 2005 , 272, 3172-83	5.7	15
112	C-terminal tail residue Arg1400 enables NADPH to regulate electron transfer in neuronal nitric-oxide synthase. <i>Journal of Biological Chemistry</i> , 2005 , 280, 39208-19	5.4	35
111	The three nitric-oxide synthases differ in their kinetics of tetrahydrobiopterin radical formation, heme-dioxy reduction, and arginine hydroxylation. <i>Journal of Biological Chemistry</i> , 2005 , 280, 8929-35	5.4	40
110	Visualizing inducible nitric-oxide synthase in living cells with a heme-binding fluorescent inhibitor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 10117-22	11.5	21
109	Update on mechanism and catalytic regulation in the NO synthases. <i>Journal of Biological Chemistry</i> , 2004 , 279, 36167-70	5.4	383
108	A conserved Val to Ile switch near the heme pocket of animal and bacterial nitric-oxide synthases helps determine their distinct catalytic profiles. <i>Journal of Biological Chemistry</i> , 2004 , 279, 19018-25	5.4	49
107	Heme distortion modulated by ligand-protein interactions in inducible nitric-oxide synthase. Journal of Biological Chemistry, 2004 , 279, 26489-99	5.4	60
106	Tyrosine nitration impairs mammalian aldolase A activity. <i>Molecular and Cellular Proteomics</i> , 2004 , 3, 548-57	7.6	46
105	Dynamic regulation of the inducible nitric-oxide synthase by NO: comparison with the endothelial isoform. <i>Journal of Biological Chemistry</i> , 2004 , 279, 4358-65	5.4	19

(2002-2004)

1	104	Rapid and selective oxygen-regulated protein tyrosine denitration and nitration in mitochondria. Journal of Biological Chemistry, 2004 , 279, 27257-62	5.4	142
1	103	A conserved aspartate (Asp-1393) regulates NADPH reduction of neuronal nitric-oxide synthase: implications for catalysis. <i>Journal of Biological Chemistry</i> , 2004 , 279, 18323-33	5.4	17
1	102	The FAD-shielding residue Phe1395 regulates neuronal nitric-oxide synthase catalysis by controlling NADP+ affinity and a conformational equilibrium within the flavoprotein domain. <i>Journal of Biological Chemistry</i> , 2004 , 279, 35412-25	5.4	44
1	101	Structural basis for isozyme-specific regulation of electron transfer in nitric-oxide synthase. <i>Journal of Biological Chemistry</i> , 2004 , 279, 37918-27	5.4	226
1	100	Inhibition of nitric oxide synthesis in corneas in storage media. Experimental Eye Research, 2004, 78, 891	-4 .7	10
ç	99	Enzymes of the L-arginine to nitric oxide pathway. <i>Journal of Nutrition</i> , 2004 , 134, 2748S-2751S; discussion 2765S-2767S	4.1	115
9	98	Dynamics of protein nitration in cells and mitochondria. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004 , 286, H30-8	5.2	134
Ş	97	Radical reactions of nitric oxide synthases. <i>Biochemical Society Symposia</i> , 2004 , 39-49		16
ç	96	Tetrahydrobiopterin radical enzymology. <i>Chemical Reviews</i> , 2003 , 103, 2365-83	68.1	162
Ş	95	Spectroscopic characterization of five- and six-coordinate ferrous-NO heme complexes. Evidence for heme Fe-proximal cysteinate bond cleavage in the ferrous-NO adducts of the Trp-409Tyr/Phe proximal environment mutants of neuronal nitric oxide synthase. <i>Biochemistry</i> , 2003 , 42, 2475-84	3.2	30
Ş	94	Structure of tetrahydrobiopterin tunes its electron transfer to the heme-dioxy intermediate in nitric oxide synthase. <i>Biochemistry</i> , 2003 , 42, 1969-77	3.2	50
Ş	93	Superoxide generation mediated by 8-nitroguanosine, a highly redox-active nucleic acid derivative. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 311, 300-6	3.4	50
Ş	92	Characterization of Drosophila nitric oxide synthase: a biochemical study. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 306, 590-7	3.4	8
Š	91	A tetrahydrobiopterin radical forms and then becomes reduced during Nomega-hydroxyarginine oxidation by nitric-oxide synthase. <i>Journal of Biological Chemistry</i> , 2003 , 278, 46668-73	5.4	78
9	90	Protein tyrosine nitration in the mitochondria from diabetic mouse heart. Implications to dysfunctional mitochondria in diabetes. <i>Journal of Biological Chemistry</i> , 2003 , 278, 33972-7	5.4	186
	89	Distinct influence of N-terminal elements on neuronal nitric-oxide synthase structure and catalysis. <i>Journal of Biological Chemistry</i> , 2003 , 278, 37122-31	5.4	20
8	88	Why do nitric oxide synthases use tetrahydrobiopterin?. Journal of Inorganic Biochemistry, 2002, 91, 618	-2.4	30
{	87	Mechanistic studies with potent and selective inducible nitric-oxide synthase dimerization inhibitors. <i>Journal of Biological Chemistry</i> , 2002 , 277, 295-302	5.4	81

86	Distinct dimer interaction and regulation in nitric-oxide synthase types I, II, and III. <i>Journal of Biological Chemistry</i> , 2002 , 277, 31020-30	5.4	101
85	Direct evidence for nitric oxide production by a nitric-oxide synthase-like protein from Bacillus subtilis. <i>Journal of Biological Chemistry</i> , 2002 , 277, 16167-71	5.4	144
84	A conserved tryptophan 457 modulates the kinetics and extent of N-hydroxy-L-arginine oxidation by inducible nitric-oxide synthase. <i>Journal of Biological Chemistry</i> , 2002 , 277, 12830-7	5.4	29
83	A conserved flavin-shielding residue regulates NO synthase electron transfer and nicotinamide coenzyme specificity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 13516-21	11.5	47
82	Evidence that light modulates protein nitration in rat retina. <i>Molecular and Cellular Proteomics</i> , 2002 , 1, 293-303	7.6	87
81	Cloning, expression, and characterization of a nitric oxide synthase protein from Deinococcus radiodurans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 107-12	11.5	118
8o	Nitric oxide synthase: use of stopped-flow spectroscopy and rapid-quench methods in single-turnover conditions to examine formation and reactions of heme-O2 intermediate in early catalysis. <i>Methods in Enzymology</i> , 2002 , 354, 320-38	1.7	8
79	Nitric oxide generated by corneas in corneal storage media. <i>Cornea</i> , 2002 , 21, 410-4	3.1	12
78	Control of nitric oxide synthase dimer assembly by a heme-NO-dependent mechanism. <i>Biochemistry</i> , 2002 , 41, 4618-25	3.2	31
77	Structure of a nitric oxide synthase heme protein from Bacillus subtilis. <i>Biochemistry</i> , 2002 , 41, 11071-9	3.2	114
76	A DNA microarray study of nitric oxide-induced genes in mouse hepatocytes: implications for hepatic heme oxygenase-1 expression in ischemia/reperfusion. <i>Nitric Oxide - Biology and Chemistry</i> , 2002 , 7, 165-86	5	55
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