

Pavel Martasek

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241
papers

10,829
citations

52
h-index

97
g-index

265
ext. papers

11,459
ext. citations

5.7
avg, IF

5.57
L-index

#	Paper	IF	Citations
241	Superoxide generation by endothelial nitric oxide synthase: the influence of cofactors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 9220-5	11.5	1229
240	Dissecting the interaction between nitric oxide synthase (NOS) and caveolin. Functional significance of the nos caveolin binding domain in vivo. <i>Journal of Biological Chemistry</i> , 1997 , 272, 25437-40	5.4	639
239	Crystal structure of constitutive endothelial nitric oxide synthase: a paradigm for pterin function involving a novel metal center. <i>Cell</i> , 1998 , 95, 939-50	56.2	593
238	Endothelial nitric oxide synthase-dependent superoxide generation from adriamycin. <i>Biochemistry</i> , 1997 , 36, 11293-7	3.2	288
237	Plant nitric oxide synthase: a never-ending story?. <i>Trends in Plant Science</i> , 2006 , 11, 524-5; author reply 526-8	13.1	281
236	High-level expression of functional rat neuronal nitric oxide synthase in Escherichia coli. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995 , 92, 8428-32	11.5	252
235	Folic acid reverts dysfunction of endothelial nitric oxide synthase. <i>Circulation Research</i> , 2000 , 86, 1129-34	5.7	238
234	The ratio between tetrahydrobiopterin and oxidized tetrahydrobiopterin analogues controls superoxide release from endothelial nitric oxide synthase: an EPR spin trapping study. <i>Biochemical Journal</i> , 2002 , 362, 733-739	3.8	232
233	An autoinhibitory control element defines calcium-regulated isoforms of nitric oxide synthase. <i>Journal of Biological Chemistry</i> , 1997 , 272, 29769-77	5.4	200
232	Neuronal nitric oxide synthase, a modular enzyme formed by convergent evolution: structure studies of a cysteine thiolate-liganded heme protein that hydroxylates L-arginine to produce NO. as a cellular signal. <i>FASEB Journal</i> , 1996 , 10, 552-8	0.9	193
231	Potent and selective inhibition of neuronal nitric oxide synthase by N omega-propyl-L-arginine. <i>Journal of Medicinal Chemistry</i> , 1997 , 40, 3869-70	8.3	174
230	Intrinsic and extrinsic modulation of nitric oxide synthase activity. <i>Chemical Reviews</i> , 2002 , 102, 1179-90	68.1	174
229	The role of tetrahydrobiopterin in superoxide generation from eNOS: enzymology and physiological implications. <i>Free Radical Research</i> , 2003 , 37, 121-7	4	172
228	Superoxide anion formation from lucigenin: an electron spin resonance spin-trapping study. <i>FEBS Letters</i> , 1997 , 403, 127-30	3.8	155
227	Characterization of bovine endothelial nitric oxide synthase expressed in E. coli. <i>Biochemical and Biophysical Research Communications</i> , 1996 , 219, 359-65	3.4	152
226	Tetrahydrobiopterin-dependent inhibition of superoxide generation from neuronal nitric oxide synthase. <i>Journal of Biological Chemistry</i> , 1999 , 274, 26736-42	5.4	151
225	The ratio between tetrahydrobiopterin and oxidized tetrahydrobiopterin analogues controls superoxide release from endothelial nitric oxide synthase: an EPR spin trapping study. <i>Biochemical Journal</i> , 2002 , 362, 733-9	3.8	150

224	Detection of superoxide anion using an isotopically labeled nitron spin trap: potential biological applications. <i>FEBS Letters</i> , 2000 , 473, 58-62	3.8	131
223	Endothelial nitric oxide synthase reduces nitrite anions to NO under anoxia. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 341, 816-21	3.4	128
222	EPR and ENDOR characterization of intermediates in the cryoreduced oxy-nitric oxide synthase heme domain with bound L-arginine or N(G)-hydroxyarginine. <i>Biochemistry</i> , 2002 , 41, 10375-81	3.2	112
221	Porphyrin-cyclodextrin conjugates as a nanosystem for versatile drug delivery and multimodal cancer therapy. <i>Journal of Medicinal Chemistry</i> , 2010 , 53, 128-38	8.3	106
220	Crystal structure of the FAD/NADPH-binding domain of rat neuronal nitric-oxide synthase. Comparisons with NADPH-cytochrome P450 oxidoreductase. <i>Journal of Biological Chemistry</i> , 2001 , 276, 37506-13	5.4	100
219	Adipocyte heme oxygenase-1 induction attenuates metabolic syndrome in both male and female obese mice. <i>Hypertension</i> , 2010 , 56, 1124-30	8.5	96
218	The C termini of constitutive nitric-oxide synthases control electron flow through the flavin and heme domains and affect modulation by calmodulin. <i>Journal of Biological Chemistry</i> , 2000 , 275, 29225-32	5.4	94
217	Reaction of tetrahydrobiopterin with superoxide: EPR-kinetic analysis and characterization of the pteridine radical. <i>Free Radical Biology and Medicine</i> , 2001 , 31, 975-85	7.8	93
216	Structural basis for human NADPH-cytochrome P450 oxidoreductase deficiency. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 13486-91	11.5	89
215	Minimal pharmacophoric elements and fragment hopping, an approach directed at molecular diversity and isozyme selectivity. Design of selective neuronal nitric oxide synthase inhibitors. <i>Journal of the American Chemical Society</i> , 2008 , 130, 3900-14	16.4	88
214	Involvement of the reductase domain of neuronal nitric oxide synthase in superoxide anion production. <i>Biochemistry</i> , 1997 , 36, 15277-84	3.2	86
213	Long-term follow-up of Wilson disease: natural history, treatment, mutations analysis and phenotypic correlation. <i>Liver International</i> , 2011 , 31, 83-91	7.9	84
212	Association of the Glu298Asp polymorphism in the endothelial nitric oxide synthase gene with essential hypertension resistant to conventional therapy. <i>Biochemical and Biophysical Research Communications</i> , 2001 , 284, 426-30	3.4	82
211	Discovery of highly potent and selective inhibitors of neuronal nitric oxide synthase by fragment hopping. <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 779-97	8.3	78
210	Crystal structure of nitric oxide synthase bound to nitro indazole reveals a novel inactivation mechanism. <i>Biochemistry</i> , 2001 , 40, 13448-55	3.2	74
209	Crystallographic studies on endothelial nitric oxide synthase complexed with nitric oxide and mechanism-based inhibitors. <i>Biochemistry</i> , 2001 , 40, 5399-406	3.2	74
208	N(omega)-Nitroarginine-containing dipeptide amides. Potent and highly selective inhibitors of neuronal nitric oxide synthase. <i>Journal of Medicinal Chemistry</i> , 1999 , 42, 3147-53	8.3	72
207	Selective neuronal nitric oxide synthase inhibitors and the prevention of cerebral palsy. <i>Annals of Neurology</i> , 2009 , 65, 209-17	9.4	71

206	Rapid kinetic studies of electron transfer in the three isoforms of nitric oxide synthase. <i>Biochemical and Biophysical Research Communications</i> , 1999 , 265, 184-8	3.4	68
205	Homozygous hereditary coproporphria caused by an arginine to tryptophane substitution in coproporphyrinogen oxidase and common intragenic polymorphisms. <i>Human Molecular Genetics</i> , 1994 , 3, 477-80	5.6	68
204	Reduced amide bond peptidomimetics. (4S)-N-(4-amino-5-[aminoalkyl]aminopentyl)-N'-nitroguanidines, potent and highly selective inhibitors of neuronal nitric oxide synthase. <i>Journal of Medicinal Chemistry</i> , 2001 , 44, 2667-70	8.3	65
203	Structural basis of hereditary coproporphria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 14232-7	11.5	64
202	Sensitivity of human tissue heme oxygenase to a new synthetic metalloporphyrin. <i>Hepatology</i> , 1989 , 10, 365-9	11.2	63
201	Hemin and L-arginine regulation of blood pressure in spontaneous hypertensive rats. <i>Journal of the American Society of Nephrology: JASN</i> , 1991 , 2, 1078-84	12.7	61
200	Mutations in ANTXR1 cause GAPO syndrome. <i>American Journal of Human Genetics</i> , 2013 , 92, 792-9	11	60
199	Glycol porphyrin derivatives as potent photodynamic inducers of apoptosis in tumor cells. <i>Journal of Medicinal Chemistry</i> , 2008 , 51, 5964-73	8.3	58
198	Hereditary coproporphria. <i>Seminars in Liver Disease</i> , 1998 , 18, 25-32	7.3	58
197	Optical sensing of sulfate by polymethinium salt receptors: colorimetric sensor for heparin. <i>Chemical Communications</i> , 2008 , 1901-3	5.8	57
196	Substrate binding-induced changes in the EPR spectra of the ferrous nitric oxide complexes of neuronal nitric oxide synthase. <i>Biochemistry</i> , 1997 , 36, 10987-92	3.2	56
195	Modular structure of neuronal nitric oxide synthase: localization of the arginine binding site and modulation by pterin. <i>Biochemical and Biophysical Research Communications</i> , 1995 , 210, 288-94	3.4	55
194	The C331A mutant of neuronal nitric-oxide synthase is defective in arginine binding. <i>Journal of Biological Chemistry</i> , 1998 , 273, 34799-805	5.4	54
193	A molecular defect in coproporphyrinogen oxidase gene causing harderoporphyria, a variant form of hereditary coproporphria. <i>Human Molecular Genetics</i> , 1995 , 4, 275-8	5.6	54
192	Coproporphyrinogen oxidase: gene organization and description of a mutation leading to exon 6 skipping. <i>Human Molecular Genetics</i> , 1994 , 3, 1325-30	5.6	53
191	Virtual histology evaluation of atherosclerosis regression during atorvastatin and ezetimibe administration: HEAVEN study. <i>Circulation Journal</i> , 2012 , 76, 176-83	2.9	52
190	Mitochondrial Respiration in the Platelets of Patients with Alzheimer's Disease. <i>Current Alzheimer Research</i> , 2016 , 13, 930-41	3	52
189	Cardiac involvement in Wilson disease. <i>Journal of Inherited Metabolic Disease</i> , 2002 , 25, 269-77	5.4	51

188	Regulation of heme oxygenase gene expression by cobalt in rat liver and kidney. <i>FEBS Journal</i> , 1990 , 192, 577-82		50
187	ENDOR spectroscopic evidence for the position and structure of NG-hydroxy-L-arginine bound to holo-neuronal nitric oxide synthase. <i>Biochemistry</i> , 1999 , 38, 3704-10	3.2	49
186	Kinetics of NO ligation with nitric-oxide synthase by flash photolysis and stopped-flow spectrophotometry. <i>Journal of Biological Chemistry</i> , 1999 , 274, 13105-10	5.4	48
185	Potent, highly selective, and orally bioavailable gem-difluorinated monocationic inhibitors of neuronal nitric oxide synthase. <i>Journal of the American Chemical Society</i> , 2010 , 132, 14229-38	16.4	47
184	Molecular characterization of homozygous variegate porphyria. <i>Human Molecular Genetics</i> , 1998 , 7, 1921-5	5.5	45
183	NOA1 is an essential GTPase required for mitochondrial protein synthesis. <i>Molecular Biology of the Cell</i> , 2011 , 22, 1-11	3.5	44
182	Molecular cloning, sequencing, and functional expression of a cDNA encoding human coproporphyrinogen oxidase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994 , 91, 3024-8	11.5	44
181	Diminished FAD binding in the Y459H and V492E Antley-Bixler syndrome mutants of human cytochrome P450 reductase. <i>Journal of Biological Chemistry</i> , 2006 , 281, 35975-82	5.4	43
180	Selective inhibition of neuronal nitric oxide synthase by N omega-nitroarginine-and phenylalanine-containing dipeptides and dipeptide esters. <i>Journal of Medicinal Chemistry</i> , 1997 , 40, 2813-7	8.2	41
179	Thermodynamics of oxidation-reduction reactions in mammalian nitric-oxide synthase isoforms. <i>Journal of Biological Chemistry</i> , 2004 , 279, 18759-66	5.4	41
178	Diagnostic exome sequencing in early-onset Parkinson's disease confirms VPS13C as a rare cause of autosomal-recessive Parkinson's disease. <i>Clinical Genetics</i> , 2018 , 93, 603-612	4	41
177	Exploration of the active site of neuronal nitric oxide synthase by the design and synthesis of pyrrolidinomethyl 2-aminopyridine derivatives. <i>Journal of Medicinal Chemistry</i> , 2010 , 53, 7804-24	8.3	40
176	Aromatic reduced amide bond peptidomimetics as selective inhibitors of neuronal nitric oxide synthase. <i>Journal of Medicinal Chemistry</i> , 2003 , 46, 1661-9	8.3	40
175	Anti-inflammatory effects of tetrahydrobiopterin on early rejection in renal allografts: modulation of inducible nitric oxide synthase. <i>FASEB Journal</i> , 2002 , 16, 1135-7	0.9	40
174	Mammalian mitochondrial nitric oxide synthase: characterization of a novel candidate. <i>FEBS Letters</i> , 2006 , 580, 455-62	3.8	37
173	Analogues of 2-aminopyridine-based selective inhibitors of neuronal nitric oxide synthase with increased bioavailability. <i>Bioorganic and Medicinal Chemistry</i> , 2009 , 17, 2371-80	3.4	36
172	Isoform-specific differences in the nitrite reductase activity of nitric oxide synthases under hypoxia. <i>Biochemical Journal</i> , 2009 , 418, 673-82	3.8	36
171	Molecular Characterization of Homozygous Variegate Porphyria. <i>Human Molecular Genetics</i> , 1998 , 7, 1921-1925	5.6	36

170	Kinetics of CO ligation with nitric-oxide synthase by flash photolysis and stopped-flow spectrophotometry. <i>Journal of Biological Chemistry</i> , 1997 , 272, 12523-8	5.4	35
169	Simplified 2-aminoquinoline-based scaffold for potent and selective neuronal nitric oxide synthase inhibition. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 1513-30	8.3	34
168	Potent and selective double-headed thiophene-2-carboximidamide inhibitors of neuronal nitric oxide synthase for the treatment of melanoma. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 686-700	8.3	33
167	Symmetric double-headed aminopyridines, a novel strategy for potent and membrane-permeable inhibitors of neuronal nitric oxide synthase. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 2039-48	8.3	33
166	Endothelial cell superoxide anion radical generation is not dependent on endothelial nitric oxide synthase-serine 1179 phosphorylation and endothelial nitric oxide synthase dimer/monomer distribution. <i>Free Radical Biology and Medicine</i> , 2006 , 40, 2056-68	7.8	33
165	Oxygen metabolism by endothelial nitric-oxide synthase. <i>Journal of Biological Chemistry</i> , 2007 , 282, 28557-28565	7.4	33
164	Recruitment of governing elements for electron transfer in the nitric oxide synthase family. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 15833-8	11.5	33
163	Electron spin resonance spin-trapping detection of superoxide generated by neuronal nitric oxide synthase. <i>Methods in Enzymology</i> , 1999 , 301, 169-77	1.7	33
162	Synthesis and evaluation of peptidomimetics as selective inhibitors and active site probes of nitric oxide synthases. <i>Journal of Medicinal Chemistry</i> , 2000 , 43, 2938-45	8.3	32
161	Aluminium(III) sensing by pyridoxal hydrazone utilising the chelation enhanced fluorescence effect. <i>Journal of Luminescence</i> , 2016 , 180, 269-277	3.8	30
160	Location of Guanidino Nitrogen of L-Arginine Substrate Bound to Neuronal Nitric Oxide Synthase (nNOS): Determination by Q-band Pulsed ENDOR Spectroscopy. <i>Journal of the American Chemical Society</i> , 1998 , 120, 2983-2984	16.4	30
159	Systematic analysis of coproporphyrinogen oxidase gene defects in hereditary coproporphyrria and mutation update. <i>Human Mutation</i> , 1999 , 13, 44-53	4.7	30
158	Potent and selective conformationally restricted neuronal nitric oxide synthase inhibitors. <i>Journal of Medicinal Chemistry</i> , 2004 , 47, 703-10	8.3	29
157	Holoenzyme structures of endothelial nitric oxide synthase - an allosteric role for calmodulin in pivoting the FMN domain for electron transfer. <i>Journal of Structural Biology</i> , 2014 , 188, 46-54	3.4	28
156	Intramolecular hydrogen bonding: a potential strategy for more bioavailable inhibitors of neuronal nitric oxide synthase. <i>Bioorganic and Medicinal Chemistry</i> , 2012 , 20, 2435-43	3.4	28
155	Structure-based design and synthesis of N(omega)-nitro-L-arginine-containing peptidomimetics as selective inhibitors of neuronal nitric oxide synthase. Displacement of the heme structural water. <i>Journal of Medicinal Chemistry</i> , 2007 , 50, 2089-99	8.3	28
154	Mapping the active site polarity in structures of endothelial nitric oxide synthase heme domain complexed with isothioureas. <i>Journal of Inorganic Biochemistry</i> , 2000 , 81, 133-9	4.2	28
153	Electron paramagnetic resonance spectroscopy of the heme domain of inducible nitric oxide synthase: binding of ligands at the arginine site induces changes in the heme ligation geometry. <i>Biochemistry</i> , 1996 , 35, 7626-30	3.2	28

152	Coordination conjugates of therapeutic proteins with drug carriers: a new approach for versatile advanced drug delivery. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011 , 21, 5514-20	2.9	27
151	Imidazole-containing amino acids as selective inhibitors of nitric oxide synthases. <i>Bioorganic and Medicinal Chemistry</i> , 1999 , 7, 1941-51	3.4	27
150	Zinc content of Escherichia coli-expressed constitutive isoforms of nitric-oxide synthase. Enzymatic activity and effect of pterin. <i>Journal of Biological Chemistry</i> , 1999 , 274, 14537-40	5.4	26
149	Structure-guided design of selective inhibitors of neuronal nitric oxide synthase. <i>Journal of Medicinal Chemistry</i> , 2013 , 56, 3024-32	8.3	25
148	Potent and selective neuronal nitric oxide synthase inhibitors with improved cellular permeability. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010 , 20, 554-7	2.9	25
147	Oxygen metabolism by neuronal nitric-oxide synthase. <i>Journal of Biological Chemistry</i> , 2007 , 282, 7921-9	5.4	25
146	Properties of human kidney heme oxygenase: inhibition by synthetic heme analogues and metalloporphyrins. <i>Biochemical and Biophysical Research Communications</i> , 1988 , 157, 480-7	3.4	25
145	Homozygous variegate porphyria. <i>Lancet, The</i> , 1984 , 1, 851	4.0	25
144	Rational design of chemical ligands for selective mitochondrial targeting. <i>Bioconjugate Chemistry</i> , 2013 , 24, 1445-54	6.3	24
143	Novel 2,4-disubstituted pyrimidines as potent, selective, and cell-permeable inhibitors of neuronal nitric oxide synthase. <i>Journal of Medicinal Chemistry</i> , 2015 , 58, 1067-88	8.3	24
142	Decreased serum antioxidant capacity in patients with Wilson disease is associated with neurological symptoms. <i>Journal of Inherited Metabolic Disease</i> , 2012 , 35, 541-8	5.4	24
141	Structural basis for pterin antagonism in nitric-oxide synthase. Development of novel 4-oxo-pteridine antagonists of (6R)-5,6,7,8-tetrahydrobiopterin. <i>Journal of Biological Chemistry</i> , 2001 , 276, 49133-41	5.4	24
140	Implications for isoform-selective inhibitor design derived from the binding mode of bulky isothioureas to the heme domain of endothelial nitric-oxide synthase. <i>Journal of Biological Chemistry</i> , 2001 , 276, 26486-91	5.4	23
139	Assay of isoforms of Escherichia coli-expressed nitric oxide synthase. <i>Methods in Enzymology</i> , 1999 , 301, 70-8	1.7	23
138	Strategy for improved therapeutic efficiency of curcumin in the treatment of gastric cancer. <i>Biomedicine and Pharmacotherapy</i> , 2019 , 118, 109278	7.5	22
137	Mutation analysis of the MECP2 gene in patients of Slavic origin with Rett syndrome: novel mutations and polymorphisms. <i>Journal of Human Genetics</i> , 2007 , 52, 342-348	4.3	22
136	Conformationally restricted dipeptide amides as potent and selective neuronal nitric oxide synthase inhibitors. <i>Journal of Medicinal Chemistry</i> , 2006 , 49, 6254-63	8.3	22
135	ENDOR Studies of l-Arginine and NG-Hydroxy-l-Arginine Bound to All Three Holo-Nitric Oxide Synthase Isozymes. <i>Journal of the American Chemical Society</i> , 2000 , 122, 5405-5406	16.4	22

134	Conformationally-restricted arginine analogues as alternative substrates and inhibitors of nitric oxide synthases. <i>Bioorganic and Medicinal Chemistry</i> , 1999 , 7, 1097-104	3.4	22
133	Water soluble chromone Schiff base derivatives as fluorescence receptor for aluminium(III). <i>Supramolecular Chemistry</i> , 2017 , 29, 1-7	1.8	21
132	Effect of redox-active drugs on superoxide generation from nitric oxide synthases: biological and toxicological implications. <i>Free Radical Research</i> , 1999 , 31, 607-17	4	21
131	Localization of the human coproporphyrinogen oxidase gene to chromosome band 3q12. <i>Human Genetics</i> , 1994 , 94, 557-9	6.3	21
130	Selective monocationic inhibitors of neuronal nitric oxide synthase. Binding mode insights from molecular dynamics simulations. <i>Journal of the American Chemical Society</i> , 2012 , 134, 11559-72	16.4	20
129	Selective L-nitroargininylaminopyrrolidine and L-nitroargininylaminopiperidine neuronal nitric oxide synthase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2007 , 15, 1928-38	3.4	20
128	Calcium/calmodulin-dependent nitric oxide synthase activity in the CNS of <i>Aplysia californica</i> : biochemical characterization and link to cGMP pathways. <i>Journal of Inorganic Biochemistry</i> , 2005 , 99, 922-8	4.2	20
127	Analogies and surprising differences between recombinant nitric oxide synthase-like proteins from <i>Staphylococcus aureus</i> and <i>Bacillus anthracis</i> in their interactions with L-arginine analogs and iron ligands. <i>Journal of Inorganic Biochemistry</i> , 2006 , 100, 2024-33	4.2	19
126	RGS2 expression predicts amyloid- β sensitivity, MCI and Alzheimer's disease: genome-wide transcriptomic profiling and bioinformatics data mining. <i>Translational Psychiatry</i> , 2016 , 6, e909	8.6	19
125	Nitric oxide synthases activation and inhibition by metallacarborane-cluster-based isoform-specific effectors. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 9541-8	8.3	18
124	Heme-coordinating inhibitors of neuronal nitric oxide synthase. Iron-thioether coordination is stabilized by hydrophobic contacts without increased inhibitor potency. <i>Journal of the American Chemical Society</i> , 2010 , 132, 798-806	16.4	18
123	1H-pyrazole-1-carboxamides: new inhibitors of nitric oxide synthase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2000 , 10, 2771-4	2.9	18
122	2-Aminopyridines with a Truncated Side Chain To Improve Human Neuronal Nitric Oxide Synthase Inhibitory Potency and Selectivity. <i>Journal of Medicinal Chemistry</i> , 2015 , 58, 5548-60	8.3	17
121	Phenyl Ether- and Aniline-Containing 2-Aminoquinolines as Potent and Selective Inhibitors of Neuronal Nitric Oxide Synthase. <i>Journal of Medicinal Chemistry</i> , 2015 , 58, 8694-712	8.3	17
120	Mutations of human cytochrome P450 reductase differentially modulate heme oxygenase-1 activity and oligomerization. <i>Archives of Biochemistry and Biophysics</i> , 2011 , 513, 42-50	4.1	17
119	Selective recognition of a saccharide-type tumor marker with natural and synthetic ligands: a new trend in cancer diagnosis. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 398, 1865-70	4.4	17
118	Peripheral but crucial: a hydrophobic pocket (Tyr(706), Leu(337), and Met(336)) for potent and selective inhibition of neuronal nitric oxide synthase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010 , 20, 6258-61	2.9	17
117	Polyhydroxylated sapphyrins: multisite non-metallic catalysts for activated phosphodiester hydrolysis. <i>Journal of the American Chemical Society</i> , 2006 , 128, 432-7	16.4	17

116	Design, synthesis, and biological testing of potential heme-coordinating nitric oxide synthase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2006 , 14, 3185-98	3.4	17
115	Reductive activation of Cr(VI) by nitric oxide synthase. <i>Chemical Research in Toxicology</i> , 2005 , 18, 834-43	4	16
114	Role of the interdomain linker probed by kinetics of CO ligation to an endothelial nitric oxide synthase mutant lacking the calmodulin binding peptide (residues 503-517 in bovine). <i>Biochemistry</i> , 2003 , 42, 6500-6	3.2	16
113	Instability of the Human Cytochrome P450 Reductase A287P Variant Is the Major Contributor to Its Antley-Bixler Syndrome-like Phenotype. <i>Journal of Biological Chemistry</i> , 2016 , 291, 20487-502	5.4	16
112	Nitric oxide synthase inhibitors that interact with both heme propionate and tetrahydrobiopterin show high isoform selectivity. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 4382-96	8.3	15
111	Combination of two chromophores: synthesis and PDT application of porphyrin-pentamethinium conjugate. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012 , 22, 82-4	2.9	15
110	Structure-based design, synthesis, and biological evaluation of lipophilic-tailed monocationic inhibitors of neuronal nitric oxide synthase. <i>Bioorganic and Medicinal Chemistry</i> , 2010 , 18, 6526-37	3.4	15
109	Molecular analysis of porphobilinogen (PBG) deaminase gene mutations in acute intermittent porphyria: first study in patients of Slavic origin. <i>Scandinavian Journal of Clinical and Laboratory Investigation</i> , 1997 , 57, 217-24	2	15
108	Synthesis of Highly Functionalized Fluorinated Porphyrins. <i>Supramolecular Chemistry</i> , 2008 , 20, 237-242	1.8	15
107	Three-fold polyfluoroalkylated amines and isocyanates based on tris(hydroxymethyl)aminomethane (TRIS). <i>Journal of Fluorine Chemistry</i> , 2007 , 128, 179-183	2.1	15
106	Cyclopropyl- and methyl-containing inhibitors of neuronal nitric oxide synthase. <i>Bioorganic and Medicinal Chemistry</i> , 2013 , 21, 1333-43	3.4	14
105	Substrate and substrate analog binding to endothelial nitric oxide synthase: electron paramagnetic resonance as an isoform-specific probe of the binding mode of substrate analogs. <i>Biochemistry</i> , 1997 , 36, 11821-7	3.2	14
104	Epigenetic agents in combined anticancer therapy. <i>Future Medicinal Chemistry</i> , 2018 , 10, 1113-1130	4.1	13
103	Two photon-induced electron injection from a nanotrigger in native endothelial NO-synthase. <i>ChemPhysChem</i> , 2008 , 9, 2325-31	3.2	13
102	Dynamics of NO rebinding to the heme domain of NO synthase-like proteins from bacterial pathogens. <i>Nitric Oxide - Biology and Chemistry</i> , 2006 , 15, 312-27	5	13
101	ENDOR Spectroscopic Evidence for the Geometry of Binding of retro-inverso-N ^ε -Nitroarginine-Containing Dipeptide Amides to Neuronal Nitric Oxide Synthase. <i>Journal of the American Chemical Society</i> , 2000 , 122, 7869-7875	16.4	13
100	Potent and Selective Human Neuronal Nitric Oxide Synthase Inhibition by Optimization of the 2-Aminopyridine-Based Scaffold with a Pyridine Linker. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 4913-25	8.3	13
99	Interactions Among Polymorphisms of Susceptibility Loci for Alzheimer's Disease or Depressive Disorder. <i>Medical Science Monitor</i> , 2018 , 24, 2599-2619	3.2	13

98	An Accessible Chiral Linker to Enhance Potency and Selectivity of Neuronal Nitric Oxide Synthase Inhibitors. <i>ACS Medicinal Chemistry Letters</i> , 2014 , 5, 56-60	4.3	12
97	NO formation by neuronal NO-synthase can be controlled by ultrafast electron injection from a nanotrigger. <i>ChemBioChem</i> , 2009 , 10, 690-701	3.8	12
96	Identification of six novel P450 oxidoreductase missense variants in Ashkenazi and Moroccan Jewish populations. <i>Pharmacogenomics</i> , 2012 , 13, 543-54	2.6	12
95	Electrophilic polyfluoroalkylating agents based on sulfonate esters. <i>Journal of Fluorine Chemistry</i> , 2008 , 129, 235-247	2.1	12
94	The role of a conserved serine residue within hydrogen bonding distance of FAD in redox properties and the modulation of catalysis by Ca ²⁺ /calmodulin of constitutive nitric-oxide synthases. <i>Journal of Biological Chemistry</i> , 2006 , 281, 34246-57	5.4	12
93	Changes of myocardial functions in acute hepatic porphyrias. Role of heme arginate administration. <i>Annals of Medicine</i> , 1989 , 21, 273-6	1.5	12
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