

Pavel Martasek

List of Publications by Year in descending order

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247
papers

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citations

28190

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30010

103
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265
all docs

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docs citations

265
times ranked

10090
citing authors

#	ARTICLE	IF	CITATIONS
1	Superoxide generation by endothelial nitric oxide synthase: The influence of cofactors. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 9220-9225.	3.3	1,337
2	Dissecting the Interaction between Nitric Oxide Synthase (NOS) and Caveolin. Journal of Biological Chemistry, 1997, 272, 25437-25440.	1.6	731
3	Crystal Structure of Constitutive Endothelial Nitric Oxide Synthase. Cell, 1998, 95, 939-950.	13.5	636
4	Endothelial Nitric Oxide Synthase-Dependent Superoxide Generation from Adriamycin. Biochemistry, 1997, 36, 11293-11297.	1.2	331
5	Plant nitric oxide synthase: a never-ending story?. Trends in Plant Science, 2006, 11, 524-525.	4.3	297
6	Folic Acid Reverts Dysfunction of Endothelial Nitric Oxide Synthase. Circulation Research, 2000, 86, 1129-1134.	2.0	265
7	High-level expression of functional rat neuronal nitric oxide synthase in Escherichia coli.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 8428-8432.	3.3	259
8	The ratio between tetrahydrobiopterin and oxidized tetrahydrobiopterin analogues controls superoxide release from endothelial nitric oxide synthase: an EPR spin trapping study. Biochemical Journal, 2002, 362, 733-739.	1.7	249
9	An Autoinhibitory Control Element Defines Calcium-regulated Isoforms of Nitric Oxide Synthase. Journal of Biological Chemistry, 1997, 272, 29769-29777.	1.6	221
10	Neuronal nitric oxide synthase, a modular enzyme formed by convergent evolution: structure studies of a cysteine thiolate-coordinated heme protein that hydroxylates L-arginine to produce NO as a cellular signal. FASEB Journal, 1996, 10, 552-558.	0.2	203
11	The Role of Tetrahydrobiopterin in Superoxide Generation from eNOS: Enzymology and Physiological Implications. Free Radical Research, 2003, 37, 121-127.	1.5	190
12	The ratio between tetrahydrobiopterin and oxidized tetrahydrobiopterin analogues controls superoxide release from endothelial nitric oxide synthase: an EPR spin trapping study. Biochemical Journal, 2002, 362, 733.	1.7	186
13	Potent and Selective Inhibition of Neuronal Nitric Oxide Synthase by N ^G -Propyl-L-arginine. Journal of Medicinal Chemistry, 1997, 40, 3869-3870.	2.9	185
14	Intrinsic and Extrinsic Modulation of Nitric Oxide Synthase Activity. Chemical Reviews, 2002, 102, 1179-1190.	23.0	185
15	Superoxide anion formation from lucigenin: an electron spin resonance spin-trapping study. FEBS Letters, 1997, 403, 127-130.	1.3	176
16	Tetrahydrobiopterin-dependent Inhibition of Superoxide Generation from Neuronal Nitric Oxide Synthase. Journal of Biological Chemistry, 1999, 274, 26736-26742.	1.6	168
17	Characterization of Bovine Endothelial Nitric Oxide Synthase Expressed in E. coli. Biochemical and Biophysical Research Communications, 1996, 219, 359-365.	1.0	160
18	Endothelial nitric oxide synthase reduces nitrite anions to NO under anoxia. Biochemical and Biophysical Research Communications, 2006, 341, 816-821.	1.0	145

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19	Detection of superoxide anion using an isotopically labeled nitron spin trap: potential biological applications. <i>FEBS Letters</i> , 2000, 473, 58-62.	1.3	143
20	Porphyrin α -Cyclodextrin Conjugates as a Nanosystem for Versatile Drug Delivery and Multimodal Cancer Therapy. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 128-138.	2.9	117
21	EPR and ENDOR Characterization of Intermediates in the Cryoreduced Oxy-Nitric Oxide Synthase Heme Domain with Bound L-Arginine or NG-Hydroxyarginine. <i>Biochemistry</i> , 2002, 41, 10375-10381.	1.2	116
22	Long-term follow-up of Wilson Disease: natural history, treatment, mutations analysis and phenotypic correlation. <i>Liver International</i> , 2011, 31, 83-91.	1.9	114
23	Crystal Structure of the FAD/NADPH-binding Domain of Rat Neuronal Nitric-oxide Synthase. <i>Journal of Biological Chemistry</i> , 2001, 276, 37506-37513.	1.6	109
24	Reaction of tetrahydrobiopterin with superoxide: EPR-kinetic analysis and characterization of the pteridine radical. <i>Free Radical Biology and Medicine</i> , 2001, 31, 975-985.	1.3	107
25	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, 13486-13491.	3.3	107
26	Adipocyte Heme Oxygenase-1 Induction Attenuates Metabolic Syndrome in Both Male and Female Obese Mice. <i>Hypertension</i> , 2010, 56, 1124-1130.	1.3	102
27	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, 3900-3914.	6.6	101
28	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, 29225-29232.	1.6	99
29	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, 426-430.	1.0	97
30	Involvement of the Reductase Domain of Neuronal Nitric Oxide Synthase in Superoxide Anion Production. <i>Biochemistry</i> , 1997, 36, 15277-15284.	1.2	90
31	Discovery of Highly Potent and Selective Inhibitors of Neuronal Nitric Oxide Synthase by Fragment Hopping. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 779-797.	2.9	86
32	Crystal Structure of Nitric Oxide Synthase Bound to Nitro Indazole Reveals a Novel Inactivation Mechanism. <i>Biochemistry</i> , 2001, 40, 13448-13455.	1.2	78
33	Crystallographic Studies on Endothelial Nitric Oxide Synthase Complexed with Nitric Oxide and Mechanism-Based Inhibitors. <i>Biochemistry</i> , 2001, 40, 5399-5406.	1.2	78
34	Selective neuronal nitric oxide synthase inhibitors and the prevention of cerebral palsy. <i>Annals of Neurology</i> , 2009, 65, 209-217.	2.8	78
35	Homozygous hereditary coproporphria caused by an arginine to tryptophane substitution in coproporphyrinogen oxidase and common intragenic polymorphisms. <i>Human Molecular Genetics</i> , 1994, 3, 477-480.	1.4	76
36	N ^ω -Nitroarginine-Containing Dipeptide Amides. Potent and Highly Selective Inhibitors of Neuronal Nitric Oxide Synthase. <i>Journal of Medicinal Chemistry</i> , 1999, 42, 3147-3153.	2.9	74

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37	Mutations in ANTXR1 Cause GAPO Syndrome. American Journal of Human Genetics, 2013, 92, 792-799.	2.6	73
38	Rapid Kinetic Studies of Electron Transfer in the Three Isoforms of Nitric Oxide Synthase. Biochemical and Biophysical Research Communications, 1999, 265, 184-188.	1.0	72
39	Structural basis of hereditary coproporphyrin. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 14232-14237.	3.3	72
40	Mitochondrial Respiration in the Platelets of Patients with Alzheimer's Disease. Current Alzheimer Research, 2016, 13, 930-941.	0.7	71
41	Diagnostic exome sequencing in early-onset Parkinson's disease confirms <i>VPS13C</i> as a rare cause of autosomal-recessive Parkinson's disease. Clinical Genetics, 2018, 93, 603-612.	1.0	70
42	Hemin and L-arginine regulation of blood pressure in spontaneous hypertensive rats.. Journal of the American Society of Nephrology: JASN, 1991, 2, 1078-1084.	3.0	68
43	Virtual Histology Evaluation of Atherosclerosis Regression During Atorvastatin and Ezetimibe Administration - HEAVEN Study -. Circulation Journal, 2012, 76, 176-183.	0.7	67
44	Sensitivity of human tissue heme oxygenase to a new synthetic metalloporphyrin. Hepatology, 1989, 10, 365-369.	3.6	66
45	Reduced Amide Bond Peptidomimetics. (4S)-N-(4-Amino-5-[aminoalkyl]aminopentyl)-N-nitroguanidines, Potent and Highly Selective Inhibitors of Neuronal Nitric Oxide Synthase. Journal of Medicinal Chemistry, 2001, 44, 2667-2670.	2.9	66
46	Hereditary Coproporphyrin. Seminars in Liver Disease, 1998, 18, 25-32.	1.8	64
47	Cardiac involvement in Wilson disease. Journal of Inherited Metabolic Disease, 2002, 25, 269-277.	1.7	64
48	Glycol Porphyrin Derivatives as Potent Photodynamic Inducers of Apoptosis in Tumor Cells. Journal of Medicinal Chemistry, 2008, 51, 5964-5973.	2.9	64
49	Optical sensing of sulfate by polymethinium salt receptors: colorimetric sensor for heparin. Chemical Communications, 2008, , 1901.	2.2	61
50	Modular Structure of Neuronal Nitric Oxide Synthase: Localization of the Arginine Binding Site and Modulation by Pterin. Biochemical and Biophysical Research Communications, 1995, 210, 288-294.	1.0	59
51	A molecular defect in coproporphyrinogen oxidase gene causing harderoporphyria, a variant form of hereditary coproporphyrin. Human Molecular Genetics, 1995, 4, 275-278.	1.4	58
52	Substrate Binding-Induced Changes in the EPR Spectra of the Ferrous Nitric Oxide Complexes of Neuronal Nitric Oxide Synthase. Biochemistry, 1997, 36, 10987-10992.	1.2	58
53	The C331A Mutant of Neuronal Nitric-Oxide Synthase Is Defective in Arginine Binding. Journal of Biological Chemistry, 1998, 273, 34799-34805.	1.6	58
54	Iron Complexes of Flavonoids-Antioxidant Capacity and Beyond. International Journal of Molecular Sciences, 2021, 22, 646.	1.8	58

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55	Coproporphyrinogene oxidase: gene organization and description of a mutation leading to exon 6 skipping. <i>Human Molecular Genetics</i> , 1994, 3, 1325-1330.	1.4	57
56	NOA1 is an essential GTPase required for mitochondrial protein synthesis. <i>Molecular Biology of the Cell</i> , 2011, 22, 1-11.	0.9	57
57	Regulation of heme oxygenase gene expression by cobalt in rat liver and kidney. <i>FEBS Journal</i> , 1990, 192, 577-582.	0.2	55
58	Potent, Highly Selective, and Orally Bioavailable <i>Gem</i> -Difluorinated Monocationic Inhibitors of Neuronal Nitric Oxide Synthase. <i>Journal of the American Chemical Society</i> , 2010, 132, 14229-14238.	6.6	55
59	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, 3704-3710.	1.2	52
60	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, 35975-35982.	1.6	50
61	Molecular characterization of homozygous variegate porphyria. <i>Human Molecular Genetics</i> , 1998, 7, 1921-1925.	1.4	49
62	Kinetics of NO Ligation with Nitric-oxide Synthase by Flash Photolysis and Stopped-flow Spectrophotometry. <i>Journal of Biological Chemistry</i> , 1999, 274, 13105-13110.	1.6	49
63	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, 3024-3028.	3.3	48
64	Anti-inflammatory effects of tetrahydrobiopterin on early rejection in renal allografts: modulation of inducible nitric oxide synthase. <i>FASEB Journal</i> , 2002, 16, 1135-1137.	0.2	48
65	Thermodynamics of Oxidation-Reduction Reactions in Mammalian Nitric-oxide Synthase Isoforms. <i>Journal of Biological Chemistry</i> , 2004, 279, 18759-18766.	1.6	45
66	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, 7804-7824.	2.9	45
67	Kinetics of CO Ligation with Nitric-oxide Synthase by Flash Photolysis and Stopped-flow Spectrophotometry. <i>Journal of Biological Chemistry</i> , 1997, 272, 12523-12528.	1.6	44
68	Selective Inhibition of Neuronal Nitric Oxide Synthase by N ^ω -Nitroarginine- and Phenylalanine-Containing Dipeptides and Dipeptide Esters. <i>Journal of Medicinal Chemistry</i> , 1997, 40, 2813-2817.	2.9	43
69	Mammalian mitochondrial nitric oxide synthase: Characterization of a novel candidate. <i>FEBS Letters</i> , 2006, 580, 455-462.	1.3	43
70	Isoform-specific differences in the nitrite reductase activity of nitric oxide synthases under hypoxia. <i>Biochemical Journal</i> , 2009, 418, 673-682.	1.7	43
71	[18] Electron spin resonance spin-trapping detection of superoxide generated by neuronal nitric oxide synthase. <i>Methods in Enzymology</i> , 1999, 301, 169-177.	0.4	42
72	Aromatic Reduced Amide Bond Peptidomimetics as Selective Inhibitors of Neuronal Nitric Oxide Synthase. <i>Journal of Medicinal Chemistry</i> , 2003, 46, 1661-1669.	2.9	41

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73	Simplified 2-Aminoquinoline-Based Scaffold for Potent and Selective Neuronal Nitric Oxide Synthase Inhibition. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 1513-1530.	2.9	40
74	Aluminium(III) sensing by pyridoxal hydrazone utilising the chelation enhanced fluorescence effect. <i>Journal of Luminescence</i> , 2016, 180, 269-277.	1.5	39
75	Strategy for improved therapeutic efficiency of curcumin in the treatment of gastric cancer. <i>Biomedicine and Pharmacotherapy</i> , 2019, 118, 109278.	2.5	39
76	Oxygen Metabolism by Endothelial Nitric-oxide Synthase. <i>Journal of Biological Chemistry</i> , 2007, 282, 28557-28565.	1.6	38
77	Analogues of 2-aminopyridine-based selective inhibitors of neuronal nitric oxide synthase with increased bioavailability. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 2371-2380.	1.4	38
78	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, 2039-2048.	2.9	38
79	Molecular Characterization of Homozygous Variegate Porphyria. <i>Human Molecular Genetics</i> , 1998, 7, 1921-1925.	1.4	37
80	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.	2.9	37
81	Synthesis and Evaluation of Peptidomimetics as Selective Inhibitors and Active Site Probes of Nitric Oxide Synthases. <i>Journal of Medicinal Chemistry</i> , 2000, 43, 2938-2945.	2.9	36
82	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, 15833-15838.	3.3	35
83	Intramolecular hydrogen bonding: A potential strategy for more bioavailable inhibitors of neuronal nitric oxide synthase. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 2435-2443.	1.4	35
84	Electron Paramagnetic Resonance Spectroscopy of the Heme Domain of Inducible Nitric Oxide Synthase: serine 1179 phosphorylation and endothelial nitric oxide synthase dimer/monomer distribution. <i>Biochemistry</i> , 1996, 35, 7626-7630.	1.2	34
85	Zinc Content of Escherichia coli-expressed Constitutive Isoforms of Nitric-oxide Synthase. <i>Journal of Biological Chemistry</i> , 1999, 274, 14537-14540.	1.6	34
86	Systematic analysis of coproporphyrinogen oxidase gene defects in hereditary coproporphyrin and mutation update. <i>Journal of Inherited Metabolic Disorders</i> , 1999, 13, 44-53.		34
87	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, 2056-2068.	1.3	33
88	Location of Guanidino Nitrogen of 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.	6.6	32
89	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.	1.3	32
90	Imidazole-containing amino acids as selective inhibitors of nitric oxide synthases. <i>Bioorganic and Medicinal Chemistry</i> , 1999, 7, 1941-1951.	1.4	29

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91	Potent and Selective Conformationally Restricted Neuronal Nitric Oxide Synthase Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2004, 47, 703-710.	2.9	29
92	Structure-Based Design and Synthesis of Ni ^{II} -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, 2089-2099.	2.9	29
93	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, 5514-5520.	1.0	29
94	HOMOZYGOUS VARIEGATE PORPHYRIA. <i>Lancet, The</i> , 1984, 323, 851.	6.3	28
95	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, 133-139.	1.5	28
96	Oxygen Metabolism by Neuronal Nitric-oxide Synthase. <i>Journal of Biological Chemistry</i> , 2007, 282, 7921-7929.	1.6	28
97	Decreased serum antioxidant capacity in patients with Wilson disease is associated with neurological symptoms. <i>Journal of Inherited Metabolic Disease</i> , 2012, 35, 541-548.	1.7	28
98	Properties of human kidney heme oxygenase: Inhibition by synthetic heme analogues and metalloporphyrins. <i>Biochemical and Biophysical Research Communications</i> , 1988, 157, 480-487.	1.0	27
99	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, 922-928.	1.5	27
100	Potent and selective neuronal nitric oxide synthase inhibitors with improved cellular permeability. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 554-557.	1.0	27
101	Rational Design of Chemical Ligands for Selective Mitochondrial Targeting. <i>Bioconjugate Chemistry</i> , 2013, 24, 1445-1454.	1.8	27
102	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, 1067-1088.	2.9	27
103	Water soluble chromone Schiff base derivatives as fluorescence receptor for aluminium(III). <i>Supramolecular Chemistry</i> , 2017, 29, 1-7.	1.5	27
104	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, 20487-20502.	1.6	26
105	Localization of the human coproporphyrinogen oxidase gene to chromosome band 3q12. <i>Human Genetics</i> , 1994, 94, 557-9.	1.8	25
106	Effect of redox-active drugs on superoxide generation from nitric oxide synthases: Biological and toxicological implications. <i>Free Radical Research</i> , 1999, 31, 607-617.	1.5	25
107	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, 26486-26491.	1.6	25
108	Structural Basis for Pterin Antagonism in Nitric-oxide Synthase. <i>Journal of Biological Chemistry</i> , 2001, 276, 49133-49141.	1.6	25

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109	Structure-Guided Design of Selective Inhibitors of Neuronal Nitric Oxide Synthase. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 3024-3032.	2.9	25
110	Role of mtDNA disturbances in the pathogenesis of Alzheimer's and Parkinson's disease. <i>DNA Repair</i> , 2020, 91-92, 102871.	1.3	25
111	Selective l-nitroargininylaminopyrrolidine and l-nitroargininylaminopiperidine neuronal nitric oxide synthase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2007, 15, 1928-1938.	1.4	24
112	[8] Assay of isoforms of Escherichia coli-expressed nitric oxide synthase. <i>Methods in Enzymology</i> , 1999, 301, 70-78.	0.4	23
113	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, 5548-5560.	2.9	23
114	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, 8694-8712.	2.9	23
115	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, 4913-4925.	2.9	23
116	RGS2 expression predicts amyloid- β^2 sensitivity, MCI and Alzheimer's disease: genome-wide transcriptomic profiling and bioinformatics data mining. <i>Translational Psychiatry</i> , 2016, 6, e909-e909.	2.4	23
117	Conformationally-restricted arginine analogues as alternative substrates and inhibitors of nitric oxide synthases. <i>Bioorganic and Medicinal Chemistry</i> , 1999, 7, 1097-1104.	1.4	22
118	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.	6.6	22
119	Conformationally Restricted Dipeptide Amides as Potent and Selective Neuronal Nitric Oxide Synthase Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 6254-6263.	2.9	22
120	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.	1.1	22
121	Pentamethinium fluorescent probes: The impact of molecular structure on photophysical properties and subcellular localization. <i>Dyes and Pigments</i> , 2014, 107, 51-59.	2.0	22
122	1H-Pyrazole-1-carboxamides: new inhibitors of nitric oxide synthase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2000, 10, 2771-2774.	1.0	21
123	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, 11559-11572.	6.6	21
124	Nitric Oxide Synthase Inhibitors That Interact with Both Heme Propionate and Tetrahydrobiopterin Show High Isoform Selectivity. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 4382-4396.	2.9	21
125	Design, synthesis, and biological testing of potential heme-coordinating nitric oxide synthase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 3185-3198.	1.4	20
126	Analogies and surprising differences between recombinant nitric oxide synthase-like proteins from Staphylococcus aureus and Bacillus anthracis in their interactions with l-arginine analogs and iron ligands. <i>Journal of Inorganic Biochemistry</i> , 2006, 100, 2024-2033.	1.5	20

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127	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, 1865-1870.	1.9	20
128	Heme-Coordinating Inhibitors of Neuronal Nitric Oxide Synthase. Iron ^{II} -Thioether Coordination Is Stabilized by Hydrophobic Contacts without Increased Inhibitor Potency. <i>Journal of the American Chemical Society</i> , 2010, 132, 798-806.	6.6	20
129	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.	1.4	20
130	Reductive Activation Of Cr(VI) By Nitric Oxide Synthase. <i>Chemical Research in Toxicology</i> , 2005, 18, 834-843.	1.7	19
131	Polyhydroxylated Sapphyrins: A Multisite Non-metallic Catalysts for Activated Phosphodiester Hydrolysis. <i>Journal of the American Chemical Society</i> , 2006, 128, 432-437.	6.6	19
132	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, 6526-6537.	1.4	19
133	Nitric Oxide Synthases Activation and Inhibition by Metallocarborane-Cluster-Based Isoform-Specific Affectors. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 9541-9548.	2.9	19
134	Peripheral but crucial: A hydrophobic pocket (Tyr706, Leu337, and Met336) for potent and selective inhibition of neuronal nitric oxide synthase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 6258-6261.	1.0	18
135	Hydrophilic, Potent, and Selective 7-Substituted 2-Aminoquinolines as Improved Human Neuronal Nitric Oxide Synthase Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 7146-7165.	2.9	18
136	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, 217-224.	0.6	17
137	Substrate and Substrate Analog Binding to Endothelial Nitric Oxide Synthase: A Electron Paramagnetic Resonance as an Isoform-Specific Probe of the Binding Mode of Substrate Analogs. <i>Biochemistry</i> , 1997, 36, 11821-11827.	1.2	17
138	Three-fold polyfluoroalkylated amines and isocyanates based on tris(hydroxymethyl)aminomethane (TRIS). <i>Journal of Fluorine Chemistry</i> , 2007, 128, 179-183.	0.9	17
139	Synthesis of Highly Functionalized Fluorinated Porphyrins. <i>Supramolecular Chemistry</i> , 2008, 20, 237-242.	1.5	17
140	Interactions Among Polymorphisms of Susceptibility Loci for Alzheimer's Disease or Depressive Disorder. <i>Medical Science Monitor</i> , 2018, 24, 2599-2619.	0.5	17
141	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, 6500-6506.	1.2	16
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