

Thomas L Poulos

List of Publications by Year in descending order

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docs citations

267
times ranked

12032
citing authors

#	ARTICLE	IF	CITATIONS
1	Computational analysis of the tryptophan cation radical energetics in peroxidase Compound I. <i>Journal of Biological Inorganic Chemistry</i> , 2022, 27, 229-237.	1.1	0
2	Structural analysis of P450 AmphL from <i>Streptomyces nodosus</i> provides insights into substrate selectivity of polyene macrolide antibiotic biosynthetic P450s. <i>Journal of Biological Chemistry</i> , 2022, 298, 101746.	1.6	1
3	Updating the Paradigm: Redox Partner Binding and Conformational Dynamics in Cytochromes P450. <i>Accounts of Chemical Research</i> , 2022, 55, 373-380.	7.6	19
4	Structural Insights on the Conversion of Cytochrome P450 to P420. <i>ACS Omega</i> , 2022, 7, 18481-18485.	1.6	3
5	2-Aminopyridines with a shortened amino sidechain as potent, selective, and highly permeable human neuronal nitric oxide synthase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2022, 69, 116878.	1.4	6
6	Partial Opening of Cytochrome P450cam (CYP101A1) Is Driven by Allostery and Putidaredoxin Binding. <i>Biochemistry</i> , 2021, 60, 2932-2942.	1.2	6
7	Unexpected Differences between Two Closely Related Bacterial P450 Camphor Monooxygenases. <i>Biochemistry</i> , 2020, 59, 2743-2750.	1.2	6
8	Proton Relay Network in the Bacterial P450s: CYP101A1 and CYP101D1. <i>Biochemistry</i> , 2020, 59, 2896-2902.	1.2	8
9	First Contact: 7-Phenyl-2-Aminoquinolines, Potent and Selective Neuronal Nitric Oxide Synthase Inhibitors That Target an Isoform-Specific Aspartate. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 4528-4554.	2.9	14
10	Conformational Response of N-Terminally Truncated Cytochrome P450 3A4 to Ligand Binding in Solution. <i>Biochemistry</i> , 2019, 58, 3903-3910.	1.2	12
11	Ligand and Redox Partner Binding Generates a New Conformational State in Cytochrome P450cam (CYP101A1). <i>Journal of the American Chemical Society</i> , 2019, 141, 2678-2683.	6.6	23
12	On the occurrence of cytochrome P450 in viruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 12343-12352.	3.3	45
13	Optimization of Blood-Brain Barrier Permeability with Potent and Selective Human Neuronal Nitric Oxide Synthase Inhibitors Having a 2-Aminopyridine Scaffold. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 2690-2707.	2.9	29
14	Testing the N-Terminal Velcro Model of CoxA Carbon Monoxide Activation. <i>Biochemistry</i> , 2018, 57, 3059-3064.	1.2	6
15	Effect of redox partner binding on CYP101D1 conformational dynamics. <i>Journal of Inorganic Biochemistry</i> , 2018, 183, 179-183.	1.5	3
16	Substrate-Dependent Allosteric Regulation in Cytochrome P450cam (CYP101A1). <i>Journal of the American Chemical Society</i> , 2018, 140, 16222-16228.	6.6	32
17	Structural Basis for Isoform Selective Nitric Oxide Synthase Inhibition by Thiophene-2-carboximidamides. <i>Biochemistry</i> , 2018, 57, 6319-6325.	1.2	3
18	Inhibition Mechanisms of Human Indoleamine 2,3 Dioxygenase 1. <i>Journal of the American Chemical Society</i> , 2018, 140, 8518-8525.	6.6	35

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19	Nitrile in the Hole: Discovery of a Small Auxiliary Pocket in Neuronal Nitric Oxide Synthase Leading to the Development of Potent and Selective 2-Aminoquinoline Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 3958-3978.	2.9	28
20	Dissecting binding of a β -barrel membrane protein by phage display. <i>Molecular BioSystems</i> , 2017, 13, 1438-1447.	2.9	2
21	Crystal structure and functional analysis of <i>Leishmania major</i> pseudoperoxidase. <i>Journal of Biological Inorganic Chemistry</i> , 2017, 22, 919-927.	1.1	2
22	Structural basis for regiospecific midazolam oxidation by human cytochrome P450 3A4. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 486-491.	3.3	90
23	Improvement of Cell Permeability of Human Neuronal Nitric Oxide Synthase Inhibitors Using Potent and Selective 2-Aminopyridine-Based Scaffolds with a Fluorobenzene Linker. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 9360-9375.	2.9	11
24	Ultrafast CO Kinetics in Heme Proteins: Adiabatic Ligand Binding and Heavy Atom Tunneling. <i>Journal of the American Chemical Society</i> , 2017, 139, 15738-15747.	6.6	6
25	Insights into the Dynamics and Dissociation Mechanism of a Protein Redox Complex Using Molecular Dynamics. <i>Journal of Chemical Information and Modeling</i> , 2017, 57, 2344-2350.	2.5	6
26	Effect of Redox Partner Binding on Cytochrome P450 Conformational Dynamics. <i>Journal of the American Chemical Society</i> , 2017, 139, 13193-13199.	6.6	43
27	Heme Binding Biguanides Target Cytochrome P450-Dependent Cancer Cell Mitochondria. <i>Cell Chemical Biology</i> , 2017, 24, 1259-1275.e6.	2.5	35
28	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
29	Structural insights into substrate and inhibitor binding sites in human indoleamine 2,3-dioxygenase 1. <i>Nature Communications</i> , 2017, 8, 1693.	5.8	129
30	Nitric oxide synthase and structure-based inhibitor design. <i>Nitric Oxide - Biology and Chemistry</i> , 2017, 63, 68-77.	1.2	38
31	Elucidating nitric oxide synthase domain interactions by molecular dynamics. <i>Protein Science</i> , 2016, 25, 374-382.	3.1	17
32	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
33	Targeting Bacterial Nitric Oxide Synthase with Aminoquinoline-Based Inhibitors. <i>Biochemistry</i> , 2016, 55, 5587-5594.	1.2	16
34	Conformational selectivity in cytochrome P450 redox partner interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 8723-8728.	3.3	45
35	A Comparative Analysis of the Effector Role of Redox Partner Binding in Bacterial P450s. <i>Biochemistry</i> , 2016, 55, 6517-6523.	1.2	11
36	Electrostatic Control of Isoform Selective Inhibitor Binding in Nitric Oxide Synthase. <i>Biochemistry</i> , 2016, 55, 3702-3707.	1.2	39

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37	Association Mechanism of Leishmania major Peroxidase and cytochrome c revealed through Brownian and Molecular Dynamics. Biophysical Journal, 2016, 110, 42a.	0.2	0
38	Crystal structure of the pristine peroxidase ferryl center and its relevance to proton-coupled electron transfer. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1226-1231.	3.3	65
39	Structure-Based Inhibitor Design for Evaluation of a CYP3A4 Pharmacophore Model. Journal of Medicinal Chemistry, 2016, 59, 4210-4220.	2.9	88
40	Enzymatic Mechanism of <i>Leishmania major</i> Peroxidase and the Critical Role of Specific Ionic Interactions. Biochemistry, 2015, 54, 3328-3336.	1.2	9
41	Bind and Crawl—Association Mechanism of <i>Leishmania major</i> Peroxidase and Cytochrome <i>c</i> Revealed by Brownian and Molecular Dynamics Simulations. Biochemistry, 2015, 54, 7272-7282.	1.2	12
42	Novel 2,4-Disubstituted Pyrimidines as Potent, Selective, and Cell-Permeable Inhibitors of Neuronal Nitric Oxide Synthase. Journal of Medicinal Chemistry, 2015, 58, 1067-1088.	2.9	27
43	Structure-Based Design of Bacterial Nitric Oxide Synthase Inhibitors. Journal of Medicinal Chemistry, 2015, 58, 994-1004.	2.9	15
44	Probing the Hydrogen Bonding of the Ferrous-NO Heme Center of nNOS by Pulsed Electron Paramagnetic Resonance. Journal of Physical Chemistry A, 2015, 119, 6641-6649.	1.1	6
45	2-Aminopyridines with a Truncated Side Chain To Improve Human Neuronal Nitric Oxide Synthase Inhibitory Potency and Selectivity. Journal of Medicinal Chemistry, 2015, 58, 5548-5560.	2.9	23
46	Inhibitor Bound Crystal Structures of Bacterial Nitric Oxide Synthase. Biochemistry, 2015, 54, 4075-4082.	1.2	9
47	Nitric Oxide Synthase as a Target for Methicillin-Resistant Staphylococcus aureus. Chemistry and Biology, 2015, 22, 785-792.	6.2	15
48	Anion-Dependent Stimulation of CYP3A4 Monooxygenase. Biochemistry, 2015, 54, 4083-4096.	1.2	45
49	Mechanistic Studies of Inactivation of Inducible Nitric Oxide Synthase by Amidines. Biochemistry, 2015, 54, 2530-2538.	1.2	9
50	Structures of Cytochrome P450 Enzymes. , 2015, , 3-32.		26
51	Mechanism of Inactivation of Neuronal Nitric Oxide Synthase by (S)-2-Amino-5-(2-(methylthio)acetimidamido)pentanoic Acid. Journal of the American Chemical Society, 2015, 137, 5980-5989.	6.6	6
52	Phenyl Ether- and Aniline-Containing 2-Aminoquinolines as Potent and Selective Inhibitors of Neuronal Nitric Oxide Synthase. Journal of Medicinal Chemistry, 2015, 58, 8694-8712.	2.9	23
53	Molecular dynamics of the P ₄₅₀ cam ⁴ -P _{dx} complex reveals complex stability and novel interface contacts. Protein Science, 2015, 24, 49-57.	3.1	19
54	Identification of Redox Partners and Development of a Novel Chimeric Bacterial Nitric Oxide Synthase for Structure Activity Analyses. Journal of Biological Chemistry, 2014, 289, 29437-29445.	1.6	11

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55	Cytochrome P450 Dynamics. , 2014, , 75-94.		3
56	Accessible Chiral Linker to Enhance Potency and Selectivity of Neuronal Nitric Oxide Synthase Inhibitors. ACS Medicinal Chemistry Letters, 2014, 5, 56-60.	1.3	13
57	Potent and Selective Double-Headed Thiophene-2-carboximidamide Inhibitors of Neuronal Nitric Oxide Synthase for the Treatment of Melanoma. Journal of Medicinal Chemistry, 2014, 57, 686-700.	2.9	37
58	Heme Enzyme Structure and Function. Chemical Reviews, 2014, 114, 3919-3962.	23.0	1,049
59	Structures of human constitutive nitric oxide synthases. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 2667-2674.	2.5	33
60	Combination of chiral linkers with thiophenecarboximidamide heads to improve the selectivity of inhibitors of neuronal nitric oxide synthase. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 4504-4510.	1.0	7
61	Pulsed Electron Paramagnetic Resonance Study of Domain Docking in Neuronal Nitric Oxide Synthase: The Calmodulin and Output State Perspective. Journal of Physical Chemistry A, 2014, 118, 6864-6872.	1.1	24
62	Simplified 2-Aminoquinoline-Based Scaffold for Potent and Selective Neuronal Nitric Oxide Synthase Inhibition. Journal of Medicinal Chemistry, 2014, 57, 1513-1530.	2.9	40
63	Nitric Oxide Synthase Inhibitors That Interact with Both Heme Propionate and Tetrahydrobiopterin Show High Isoform Selectivity. Journal of Medicinal Chemistry, 2014, 57, 4382-4396.	2.9	21
64	Crystal Structure of Cindoxin, the P450cin Redox Partner. Biochemistry, 2014, 53, 1435-1446.	1.2	19
65	The Mobility of a Conserved Tyrosine Residue Controls Isoform-Dependent Enzyme-Inhibitor Interactions in Nitric Oxide Synthases. Biochemistry, 2014, 53, 5272-5279.	1.2	19
66	Communication between the Zinc and Tetrahydrobiopterin Binding Sites in Nitric Oxide Synthase. Biochemistry, 2014, 53, 4216-4223.	1.2	19
67	Ritonavir Analogues as a Probe for Deciphering the Cytochrome P450 3A4 Inhibitory Mechanism. Current Topics in Medicinal Chemistry, 2014, 14, 1348-1355.	1.0	28
68	Synergistic Effects of Mutations in Cytochrome P450cam Designed To Mimic CYP101D1. Biochemistry, 2013, 52, 5396-5402.	1.2	17
69	Cyclopropyl- and methyl-containing inhibitors of neuronal nitric oxide synthase. Bioorganic and Medicinal Chemistry, 2013, 21, 1333-1343.	1.4	14
70	Structural and biological studies on bacterial nitric oxide synthase inhibitors. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 18127-18131.	3.3	43
71	Structure-Guided Design of Selective Inhibitors of Neuronal Nitric Oxide Synthase. Journal of Medicinal Chemistry, 2013, 56, 3024-3032.	2.9	25
72	Calmodulin activates neuronal nitric oxide synthase by enabling transitions between conformational states. FEBS Letters, 2013, 587, 44-47.	1.3	32

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73	Crystal structure of the <i>Pseudomonas aeruginosa</i> cytoplasmic heme binding protein, Apo-PhuS. <i>Journal of Inorganic Biochemistry</i> , 2013, 128, 131-136.	1.5	14
74	Dissecting the kinetics of the NADP ⁺ →FADH ₂ charge transfer complex and flavin semiquinones in neuronal nitric oxide synthase. <i>Journal of Inorganic Biochemistry</i> , 2013, 124, 1-10.	1.5	1
75	Structural Basis for Effector Control and Redox Partner Recognition in Cytochrome P450. <i>Science</i> , 2013, 340, 1227-1230.	6.0	160
76	Chiral linkers to improve selectivity of double-headed neuronal nitric oxide synthase inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 5674-5679.	1.0	10
77	In search of potent and selective inhibitors of neuronal nitric oxide synthase with more simple structures. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 5323-5331.	1.4	7
78	Methylated N ^ω -Hydroxy-L-arginine Analogues as Mechanistic Probes for the Second Step of the Nitric Oxide Synthase-Catalyzed Reaction. <i>Biochemistry</i> , 2013, 52, 3062-3073.	1.2	12
79	Pyridine-Substituted Desoxyritonavir Is a More Potent Inhibitor of Cytochrome P450 3A4 than Ritonavir. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 3733-3741.	2.9	68
80	Oxygen activation and redox partner binding in cytochromes P450. <i>Biotechnology and Applied Biochemistry</i> , 2013, 60, 128-133.	1.4	6
81	Targeting Nitric Oxide Signaling with nNOS Inhibitors As a Novel Strategy for the Therapy and Prevention of Human Melanoma. <i>Antioxidants and Redox Signaling</i> , 2013, 19, 433-447.	2.5	51
82	Crystal Structures and Functional Characterization of Wild-Type CYP101D1 and Its Active Site Mutants. <i>Biochemistry</i> , 2013, 52, 8898-8906.	1.2	22
83	P450 _{cin} Active Site Water: Implications for Substrate Binding and Solvent Accessibility. <i>Biochemistry</i> , 2013, 52, 5039-5050.	1.2	14
84	Structural Basis for Isoform-Selective Inhibition in Nitric Oxide Synthase. <i>Accounts of Chemical Research</i> , 2013, 46, 390-398.	7.6	39
85	Domain-level rocking motion within a polymerase that translocates on single-stranded nucleic acid. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013, 69, 617-624.	2.5	1
86	Effect of DNA Binding on Geminate CO Recombination Kinetics in CO-sensing Transcription Factor CooA. <i>Journal of Biological Chemistry</i> , 2012, 287, 21729-21740.	1.6	18
87	Crystal structure of the <i>Leishmania major</i> peroxidase→cytochrome c complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 18390-18394.	3.3	21
88	<i>Leishmania major</i> Peroxidase Is a Cytochrome c Peroxidase. <i>Biochemistry</i> , 2012, 51, 2453-2460.	1.2	24
89	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
90	Crystal Structures of Substrate-Free and Nitrosyl Cytochrome P450 _{cin} : Implications for O ₂ Activation. <i>Biochemistry</i> , 2012, 51, 6623-6631.	1.2	15

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91	Interaction of human cytochrome P4503A4 with ritonavir analogs. Archives of Biochemistry and Biophysics, 2012, 520, 108-116.	1.4	54
92	Engineered ascorbate peroxidase as a genetically encoded reporter for electron microscopy. Nature Biotechnology, 2012, 30, 1143-1148.	9.4	584
93	Geometric and electronic structures of the His ϵ -Fe(IV)=O and His ϵ -Fe(IV) π -Tyr hemes of MauG. Journal of Biological Inorganic Chemistry, 2012, 17, 1241-1255.	1.1	20
94	Structural and Mechanistic Insights into the Interaction of Cytochrome P4503A4 with Bromoergocryptine, a Type I Ligand. Journal of Biological Chemistry, 2012, 287, 3510-3517.	1.6	106
95	Intramolecular hydrogen bonding: A potential strategy for more bioavailable inhibitors of neuronal nitric oxide synthase. Bioorganic and Medicinal Chemistry, 2012, 20, 2435-2443.	1.4	35
96	Temperature-Dependent Spin Crossover in Neuronal Nitric Oxide Synthase Bound with the Heme-Coordinating Thioether Inhibitors. Journal of the American Chemical Society, 2011, 133, 8326-8334.	6.6	16
97	Symmetric Double-Headed Aminopyridines, a Novel Strategy for Potent and Membrane-Permeable Inhibitors of Neuronal Nitric Oxide Synthase. Journal of Medicinal Chemistry, 2011, 54, 2039-2048.	2.9	38
98	Structural biology of redox partner interactions in P450cam monooxygenase: A fresh look at an old system. Archives of Biochemistry and Biophysics, 2011, 507, 66-74.	1.4	52
99	Neuronal Nitric Oxide Synthase (nNOS)/NO, An Accelerator of Melanoma Progression, is a Potential Target for Chemoprevention. Free Radical Biology and Medicine, 2011, 51, S91-S92.	1.3	0
100	Improved Synthesis of Chiral Pyrrolidine Inhibitors and Their Binding Properties to Neuronal Nitric Oxide Synthase. Journal of Medicinal Chemistry, 2011, 54, 6399-6403.	2.9	8
101	Crystal Structure of Leishmania major Peroxidase and Characterization of the Compound I Tryptophan Radical. Journal of Biological Chemistry, 2011, 286, 24608-24615.	1.6	32
102	Ultrahigh (0.93Å...) resolution structure of manganese peroxidase from Phanerochaete chrysosporium: Implications for the catalytic mechanism. Journal of Inorganic Biochemistry, 2010, 104, 683-690.	1.5	78
103	Structure-based design, synthesis, and biological evaluation of lipophilic-tailed monocationic inhibitors of neuronal nitric oxide synthase. Bioorganic and Medicinal Chemistry, 2010, 18, 6526-6537.	1.4	19
104	Peripheral but crucial: A hydrophobic pocket (Tyr706, Leu337, and Met336) for potent and selective inhibition of neuronal nitric oxide synthase. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 6258-6261.	1.0	18
105	Crystal Structure of the Putidaredoxin Reductase \cdot Putidaredoxin Electron Transfer Complex. Journal of Biological Chemistry, 2010, 285, 13616-13620.	1.6	30
106	Structure and mechanism of the complex between cytochrome P4503A4 and ritonavir. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18422-18427.	3.3	240
107	Crystallographic and Single-Crystal Spectral Analysis of the Peroxidase Ferryl Intermediate. Biochemistry, 2010, 49, 2984-2986.	1.2	75
108	Using Molecular Dynamics To Probe the Structural Basis for Enhanced Stability in Thermal Stable Cytochromes P450. Biochemistry, 2010, 49, 6680-6686.	1.2	26

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109	Unexpected Binding Modes of Nitric Oxide Synthase Inhibitors Effective in the Prevention of a Cerebral Palsy Phenotype in an Animal Model. <i>Journal of the American Chemical Society</i> , 2010, 132, 5437-5442.	6.6	50
110	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
111	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.	6.6	20
112	Production and Characterization of a Functional Putidaredoxin Reductase ⁺ Putidaredoxin Covalent Complex. <i>Biochemistry</i> , 2010, 49, 58-67.	1.2	14
113	Role of Zinc in Isoform-Selective Inhibitor Binding to Neuronal Nitric Oxide Synthase. <i>Biochemistry</i> , 2010, 49, 10803-10810.	1.2	40
114	Thirty years of heme peroxidase structural biology. <i>Archives of Biochemistry and Biophysics</i> , 2010, 500, 3-12.	1.4	105
115	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
116	Polymerase Translocation with Respect to Single-Stranded Nucleic Acid: Looping or Wrapping of Primer around a Poly(A) Polymerase. <i>Structure</i> , 2009, 17, 680-689.	1.6	3
117	Selective neuronal nitric oxide synthase inhibitors and the prevention of cerebral palsy. <i>Annals of Neurology</i> , 2009, 65, 209-217.	2.8	78
118	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
119	Single Crystal Structural and Absorption Spectral Characterizations of Nitric Oxide Synthase Complexed with <i>N</i> -Hydroxy-L-arginine and Diatomic Ligands. <i>Biochemistry</i> , 2009, 48, 10246-10254.	1.2	22
120	Crystal Structures of Constitutive Nitric Oxide Synthases in Complex with De Novo Designed Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 2060-2066.	2.9	19
121	Evolutionary History of a Specialized P450 Propane Monooxygenase. <i>Journal of Molecular Biology</i> , 2008, 383, 1069-1080.	2.0	185
122	Engineering Ascorbate Peroxidase Activity into Cytochrome <i>c</i> Peroxidase. <i>Biochemistry</i> , 2008, 47, 10324-10332.	1.2	22
123	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
124	The Critical Role of Substrate-Protein Hydrogen Bonding in the Control of Regioselective Hydroxylation in P450cin. <i>Journal of Biological Chemistry</i> , 2008, 283, 10804-10812.	1.6	35
125	Exploring the Electron Transfer Properties of Neuronal Nitric-oxide Synthase by Reversal of the FMN Redox Potential. <i>Journal of Biological Chemistry</i> , 2008, 283, 34762-34772.	1.6	31
126	Diatomic Ligand Discrimination by the Heme Oxygenases from <i>Neisseria meningitidis</i> and <i>Pseudomonas aeruginosa</i> . <i>Journal of Biological Chemistry</i> , 2007, 282, 1066-1071.	1.6	11

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127	Structural Biology of P450-Oxy Complexes. <i>Drug Metabolism Reviews</i> , 2007, 39, 557-566.	1.5	17
128	Electron Transfer between Cytochrome P450cin and Its FMN-containing Redox Partner, Cindoxin. <i>Journal of Biological Chemistry</i> , 2007, 282, 27006-27011.	1.6	34
129	Structures of P450 Proteins and Their Molecular Phylogeny. , 2007, , 57-96.		9
130	The Janus nature of heme. <i>Natural Product Reports</i> , 2007, 24, 504.	5.2	66
131	Double Barrel Shotgun Scanning of the Caveolin-1 Scaffolding Domain. <i>ACS Chemical Biology</i> , 2007, 2, 493-500.	1.6	24
132	Holo- and Apo-bound Structures of Bacterial Periplasmic Heme-binding Proteins. <i>Journal of Biological Chemistry</i> , 2007, 282, 35796-35802.	1.6	69
133	Structure-Based Design and Synthesis of N ¹ -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
134	Mechanism of the CO-sensing heme protein CooA: New insights from the truncated heme domain and UVRR spectroscopy. <i>Journal of Inorganic Biochemistry</i> , 2007, 101, 1776-1785.	1.5	18
135	Structure-based hypothesis on the activation of the CO-sensing transcription factor CooA. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2007, 63, 282-287.	2.5	32
136	Photoreduction of the active site of the metalloprotein putidaredoxin by synchrotron radiation. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2007, 63, 951-960.	2.5	97
137	Structure-Based Hypothesis on the Activation of the CO-sensing Transcription Factor CooA. <i>FASEB Journal</i> , 2007, 21, A670.	0.2	0
138	Putidaredoxin-to-Cytochrome P450cam Electron Transfer: Differences between the Two Reductive Steps Required for Catalysis. <i>Biochemistry</i> , 2006, 45, 11934-11944.	1.2	65
139	The Role of the DNA-Binding Domains in CooA Activation. <i>Biochemistry</i> , 2006, 45, 7148-7153.	1.2	9
140	1P157 Exploring the Binding Conformations of Bulkier Dipeptide Amide Inhibitors in Constitutive Nitric Oxide Synthases (5. Heme protein, Poster Session, Abstract, Meeting Program of EABS & BSJ 2006). <i>Seibutsu Butsuri</i> , 2006, 46, S186.	0.0	0
141	Hydroxyl-terminated peptidomimetic inhibitors of neuronal nitric oxide synthase. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 3681-3690.	1.4	6
142	Structural studies of constitutive nitric oxide synthases with diatomic ligands bound. <i>Journal of Biological Inorganic Chemistry</i> , 2006, 11, 753-768.	1.1	54
143	Soluble guanylate cyclase. <i>Current Opinion in Structural Biology</i> , 2006, 16, 736-743.	2.6	114
144	Intermediates in P450 catalysis. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2005, 363, 793-806.	1.6	33

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