

Thomas L Poulos

List of Publications by Year in descending order

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258
papers

18,922
citations

13087

68
h-index

14197

128
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267
all docs

267
docs citations

267
times ranked

12032
citing authors

#	ARTICLE	IF	CITATIONS
1	High-resolution crystal structure of cytochrome P450cam. <i>Journal of Molecular Biology</i> , 1987, 195, 687-700.	2.0	1,418
2	Heme Enzyme Structure and Function. <i>Chemical Reviews</i> , 2014, 114, 3919-3962.	23.0	1,049
3	Crystal structure of horseradish peroxidase C at 2.15 Å... resolution. <i>Nature Structural Biology</i> , 1997, 4, 1032-1038.	9.7	642
4	Crystal Structure of Constitutive Endothelial Nitric Oxide Synthase. <i>Cell</i> , 1998, 95, 939-950.	13.5	636
5	Crystal structure of substrate-free <i>Pseudomonas putida</i> cytochrome P-450. <i>Biochemistry</i> , 1986, 25, 5314-5322.	1.2	608
6	Engineered ascorbate peroxidase as a genetically encoded reporter for electron microscopy. <i>Nature Biotechnology</i> , 2012, 30, 1143-1148.	9.4	584
7	The crystal structure of chloroperoxidase: a heme peroxidase-cytochrome P450 functional hybrid. <i>Structure</i> , 1995, 3, 1367-1378.	1.6	446
8	The structure of the cytochrome p450BM-3 haem domain complexed with the fatty acid substrate, palmitoleic acid. <i>Nature Structural Biology</i> , 1997, 4, 140-146.	9.7	433
9	Structure of cytochrome P450eryF involved in erythromycin biosynthesis. <i>Nature Structural and Molecular Biology</i> , 1995, 2, 144-153.	3.6	376
10	Crystal structure of human heme oxygenase-1. <i>Nature Structural Biology</i> , 1999, 6, 860-867.	9.7	282
11	Crystal structure of recombinant pea cytosolic ascorbate peroxidase. <i>Biochemistry</i> , 1995, 34, 4331-4341.	1.2	274
12	The crystal structure of peanut peroxidase. <i>Structure</i> , 1996, 4, 311-321.	1.6	270
13	Structure/function studies on nitric oxide synthases. <i>Journal of Inorganic Biochemistry</i> , 2005, 99, 293-305.	1.5	252
14	Understanding the Role of the Essential Asp251 in Cytochrome P450cam Using Site-Directed Mutagenesis, Crystallography, and Kinetic Solvent Isotope Effect. <i>Biochemistry</i> , 1998, 37, 9211-9219.	1.2	243
15	Structure and mechanism of the complex between cytochrome P4503A4 and ritonavir. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 18422-18427.	3.3	240
16	Crystal structure of the cytochrome P-450CAM active site mutant Thr252Ala. <i>Biochemistry</i> , 1991, 30, 11420-11429.	1.2	232
17	The role of the proximal ligand in heme enzymes. <i>Journal of Biological Inorganic Chemistry</i> , 1996, 1, 356-359.	1.1	219
18	Crystal structure of the carbon monoxide-substrate-cytochrome P-450CAM ternary complex. <i>Biochemistry</i> , 1989, 28, 7586-7592.	1.2	217

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19	A metal-mediated hydride shift mechanism for xylose isomerase based on the 1.6 Å... <i>Streptomyces rubiginosus</i> structure with xylitol and D-xylose. <i>Proteins: Structure, Function and Bioinformatics</i> , 1991, 9, 153-173.	1.5	208
20	Structure of the CO sensing transcription activator CooA. <i>Nature Structural Biology</i> , 2000, 7, 876-880.	9.7	208
21	Crystal Structures of Zinc-free and -bound Heme Domain of Human Inducible Nitric-oxide Synthase. <i>Journal of Biological Chemistry</i> , 1999, 274, 21276-21284.	1.6	196
22	Evolutionary History of a Specialized P450 Propane Monooxygenase. <i>Journal of Molecular Biology</i> , 2008, 383, 1069-1080.	2.0	185
23	Crystallographic Study on the Dioxygen Complex of Wild-type and Mutant Cytochrome P450cam. <i>Journal of Biological Chemistry</i> , 2005, 280, 31659-31663.	1.6	182
24	Identification of a Porphyrin .pi. Cation Radical in Ascorbate Peroxidase Compound I. <i>Biochemistry</i> , 1995, 34, 4342-4345.	1.2	176
25	Crystal Structure of a Thermophilic Cytochrome P450 from the Archaeon <i>Sulfolobus solfataricus</i> . <i>Journal of Biological Chemistry</i> , 2000, 275, 31086-31092.	1.6	176
26	Cytochrome P450 _{cam} : crystallography, oxygen activation, and electron transfer ¹ . <i>FASEB Journal</i> , 1992, 6, 674-679.	0.2	163
27	Structural Basis for Effector Control and Redox Partner Recognition in Cytochrome P450. <i>Science</i> , 2013, 340, 1227-1230.	6.0	160
28	Proteases of enhanced stability: Characterization of a thermostable variant of subtilisin. <i>Proteins: Structure, Function and Bioinformatics</i> , 1986, 1, 326-334.	1.5	154
29	Stereochemistry of the chloroperoxidase active site: crystallographic and molecular-modeling studies. <i>Chemistry and Biology</i> , 1998, 5, 461-473.	6.2	149
30	High-Resolution Crystal Structures and Spectroscopy of Native and Compound I Cytochrome c Peroxidase. <i>Biochemistry</i> , 2003, 42, 5600-5608.	1.2	140
31	Crystal Structure of Heme Oxygenase from the Gram-Negative Pathogen <i>Neisseria meningitidis</i> and a Comparison with Mammalian Heme Oxygenase-1. <i>Biochemistry</i> , 2001, 40, 11552-11558.	1.2	136
32	Aspartate residue 7 in amyloid Î²-protein is critical for classical complement pathway activation: Implications for Alzheimer's disease pathogenesis. <i>Nature Medicine</i> , 1997, 3, 077-079.	15.2	134
33	Structural Basis for Novel Î²-Regioselective Heme Oxygenation in the Opportunistic Pathogen <i>Pseudomonas aeruginosa</i> . <i>Biochemistry</i> , 2004, 43, 5239-5245.	1.2	129
34	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
35	The Novel Binding Mode of N-Alkyl-Nâ€-hydroxyguanidine to Neuronal Nitric Oxide Synthase Provides Mechanistic Insights into NO Biosynthesis. <i>Biochemistry</i> , 2002, 41, 13868-13875.	1.2	122
36	Soluble guanylate cyclase. <i>Current Opinion in Structural Biology</i> , 2006, 16, 736-743.	2.6	114

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37	Structural and Mechanistic Insights into the Interaction of Cytochrome P450A4 with Bromoergocryptine, a Type I Ligand. <i>Journal of Biological Chemistry</i> , 2012, 287, 3510-3517.	1.6	106
38	Thirty years of heme peroxidase structural biology. <i>Archives of Biochemistry and Biophysics</i> , 2010, 500, 3-12.	1.4	105
39	Comparison of the Heme-free and -bound Crystal Structures of Human Heme Oxygenase-1. <i>Journal of Biological Chemistry</i> , 2003, 278, 7834-7843.	1.6	104
40	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
41	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
42	Cytochrome P450 flexibility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 13121-13122.	3.3	92
43	An Engineered Cation Site in Cytochrome c Peroxidase Alters the Reactivity of the Redox Active Tryptophan. <i>Biochemistry</i> , 1996, 35, 6107-6115.	1.2	91
44	Disruption of an Active Site Hydrogen Bond Converts Human Heme Oxygenase-1 into a Peroxidase. <i>Journal of Biological Chemistry</i> , 2001, 276, 10612-10619.	1.6	90
45	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
46	Structure-Based Inhibitor Design for Evaluation of a CYP3A4 Pharmacophore Model. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 4210-4220.	2.9	88
47	Crystal Structure of Putidaredoxin, the [2Fe-2S] Component of the P450cam Monooxygenase System from <i>Pseudomonas putida</i> . <i>Journal of Molecular Biology</i> , 2003, 333, 377-392.	2.0	86
48	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
49	Crystal Structure of <i>Nitrosomonas europaea</i> Cytochrome c Peroxidase and the Structural Basis for Ligand Switching in Bacterial Di-heme Peroxidases. <i>Biochemistry</i> , 2001, 40, 13483-13490.	1.2	83
50	Crystal Structures of the Ferrous Dioxygen Complex of Wild-type Cytochrome P450eryF and Its Mutants, A245S and A245T. <i>Journal of Biological Chemistry</i> , 2005, 280, 22102-22107.	1.6	83
51	Functional implications of interleukin-1 ² based on the three-dimensional structure. <i>Proteins: Structure, Function and Bioinformatics</i> , 1992, 12, 10-23.	1.5	79
52	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
53	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
54	New understandings of thermostable and piezostable enzymes. <i>Current Opinion in Biotechnology</i> , 2003, 14, 360-365.	3.3	78

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55	Selective neuronal nitric oxide synthase inhibitors and the prevention of cerebral palsy. <i>Annals of Neurology</i> , 2009, 65, 209-217.	2.8	78
56	Ultrahigh (0.93Å...) resolution structure of manganese peroxidase from <i>Phanerochaete chrysosporium</i> : Implications for the catalytic mechanism. <i>Journal of Inorganic Biochemistry</i> , 2010, 104, 683-690.	1.5	78
57	Crystal Structures of Substrate Binding Site Mutants of Manganese Peroxidase. <i>Journal of Biological Chemistry</i> , 1997, 272, 17574-17580.	1.6	77
58	Crystal Structures of the Ferric, Ferrous, and Ferrous-NO Forms of the Asp140Ala Mutant of Human Heme Oxygenase-1: Catalytic Implications. <i>Journal of Molecular Biology</i> , 2003, 330, 527-538.	2.0	77
59	Preliminary Characterization and Crystal Structure of a Thermostable Cytochrome P450 from <i>Thermus thermophilus</i> . <i>Journal of Biological Chemistry</i> , 2003, 278, 608-616.	1.6	76
60	Crystal Structures of Epothilone D-bound, Epothilone B-bound, and Substrate-free Forms of Cytochrome P450epoK. <i>Journal of Biological Chemistry</i> , 2003, 278, 44886-44893.	1.6	75
61	Structural basis for dipeptide amide isoform-selective inhibition of neuronal nitric oxide synthase. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 54-59.	3.6	75
62	Crystallographic and Single-Crystal Spectral Analysis of the Peroxidase Ferryl Intermediate. <i>Biochemistry</i> , 2010, 49, 2984-2986.	1.2	75
63	Identification of Two Electron-Transfer Sites in Ascorbate Peroxidase Using Chemical Modification, Enzyme Kinetics, and Crystallography. <i>Biochemistry</i> , 1998, 37, 17610-17617.	1.2	74
64	Crystal Structure of Putidaredoxin Reductase from <i>Pseudomonas putida</i> , the Final Structural Component of the Cytochrome P450cam Monooxygenase. <i>Journal of Molecular Biology</i> , 2004, 336, 889-902.	2.0	74
65	Crystal Structure of Cytochrome P450cam Complexed with Its Catalytic Product, 5-exo-Hydroxycamphor. <i>Journal of the American Chemical Society</i> , 1995, 117, 6297-6299.	6.6	72
66	Structural biology of heme monooxygenases. <i>Biochemical and Biophysical Research Communications</i> , 2005, 338, 337-345.	1.0	70
67	Substrate-assisted catalysis in cytochrome P450eryF. <i>Nature Structural Biology</i> , 1996, 3, 632-637.	9.7	69
68	Computer Modeling of Selective Regions in the Active Site of Nitric Oxide Synthases: Implication for the Design of Isoform-Selective Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2003, 46, 5700-5711.	2.9	69
69	Holo- and Apo-bound Structures of Bacterial Periplasmic Heme-binding Proteins. <i>Journal of Biological Chemistry</i> , 2007, 282, 35796-35802.	1.6	69
70	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
71	The Janus nature of heme. <i>Natural Product Reports</i> , 2007, 24, 504.	5.2	66
72	Substrate recognition sites in 14 α -sterol demethylase from comparative analysis of amino acid sequences and X-ray structure of <i>Mycobacterium tuberculosis</i> CYP51. <i>Journal of Inorganic Biochemistry</i> , 2001, 87, 227-235.	1.5	65

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73	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
74	Crystal structure of the pristine peroxidase ferryl center and its relevance to proton-coupled electron transfer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1226-1231.	3.3	65
75	[2] Modeling of mammalian P450s on basis of P450cam x-ray structure. <i>Methods in Enzymology</i> , 1991, 206, 11-30.	0.4	64
76	Crystal Structures of the NO- and CO-bound Heme Oxygenase from <i>Neisseriae meningitidis</i> . <i>Journal of Biological Chemistry</i> , 2003, 278, 34654-34659.	1.6	64
77	Electrostatic Control of the Tryptophan Radical in Cytochrome c Peroxidase. <i>Biochemistry</i> , 2004, 43, 8826-8834.	1.2	61
78	Crystal structure and characterization of a cytochrome c peroxidase-cytochrome c site-specific cross-link. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 5940-5945.	3.3	55
79	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, 14229-14238.	6.6	55
80	Cytochrome P450: molecular architecture, mechanism, and prospects for rational inhibitor design. <i>Pharmaceutical Research</i> , 1988, 05, 67-75.	1.7	54
81	Preliminary Crystallographic Analysis of Manganese Peroxidase from <i>Phanerochaete chrysosporium</i> . <i>Journal of Molecular Biology</i> , 1994, 238, 845-848.	2.0	54
82	Crystal Structure of the Cytochrome P450cam Mutant That Exhibits the Same Spectral Perturbations Induced by Putidaredoxin Binding. <i>Journal of Biological Chemistry</i> , 2004, 279, 42844-42849.	1.6	54
83	Structures of Cytochrome P450 Enzymes. , 2005, , 87-114.		54
84	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
85	Interaction of human cytochrome P4503A4 with ritonavir analogs. <i>Archives of Biochemistry and Biophysics</i> , 2012, 520, 108-116.	1.4	54
86	Crystal Structure of P450cin in a Complex with Its Substrate, 1,8-Cineole, a Close Structural Homologue to d-Camphor, the Substrate for P450cam,. <i>Biochemistry</i> , 2004, 43, 9487-9494.	1.2	53
87	Structural biology of redox partner interactions in P450cam monooxygenase: A fresh look at an old system. <i>Archives of Biochemistry and Biophysics</i> , 2011, 507, 66-74.	1.4	52
88	Structural variation in heme enzymes: a comparative analysis of peroxidase and P450 crystal structures. <i>Structure</i> , 1994, 2, 461-464.	1.6	51
89	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
90	Crystal Structure of Human Heme Oxygenase-1 in a Complex with Biliverdin. <i>Biochemistry</i> , 2004, 43, 3793-3801.	1.2	50

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91	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
92	STRUCTURAL AND FUNCTIONAL DIVERSITY IN HEME MONOOXYGENASES. <i>Drug Metabolism and Disposition</i> , 2005, 33, 10-18.	1.7	49
93	Crystallization of recombinant human heme oxygenase-1. <i>Protein Science</i> , 1998, 7, 1836-1838.	3.1	48
94	Heme-mediated oxygen activation in biology: cytochrome c oxidase and nitric oxide synthase. <i>Current Opinion in Chemical Biology</i> , 1999, 3, 131-137.	2.8	47
95	Replacement of the Distal Glycine 139 Transforms Human Heme Oxygenase-1 into a Peroxidase. <i>Journal of Biological Chemistry</i> , 2000, 275, 34501-34507.	1.6	47
96	Crystal structure and preliminary functional analysis of the cytochrome c peroxidase His175Gln proximal ligand mutant. <i>Journal of the American Chemical Society</i> , 1991, 113, 7755-7757.	6.6	46
97	Probing the Cytochrome c Peroxidase ^h Cytochrome c Electron Transfer Reaction Using Site Specific Cross-Linking ^h . <i>Biochemistry</i> , 1996, 35, 4837-4845.	1.2	46
98	The Putidaredoxin Reductase-Putidaredoxin Electron Transfer Complex. <i>Journal of Biological Chemistry</i> , 2005, 280, 16135-16142.	1.6	45
99	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
100	Anion-Dependent Stimulation of CYP3A4 Monooxygenase. <i>Biochemistry</i> , 2015, 54, 4083-4096.	1.2	45
101	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
102	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
103	The Domain Architecture of Cytochrome P450BM-3. <i>Journal of Biological Chemistry</i> , 1997, 272, 7915-7921.	1.6	43
104	The role of quaternary interactions on the stability and activity of ascorbate peroxidase. <i>Protein Science</i> , 1998, 7, 2089-2098.	3.1	43
105	The Effects of an Engineered Cation Site on the Structure, Activity, and EPR Properties of Cytochrome c Peroxidase ^h . <i>Biochemistry</i> , 1999, 38, 5538-5545.	1.2	43
106	Structural and biological studies on bacterial nitric oxide synthase inhibitors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 18127-18131.	3.3	43
107	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
108	Crystallization of Cytochromes P450 and Substrate-Enzyme Interactions. <i>Current Topics in Medicinal Chemistry</i> , 2004, 4, 1789-1802.	1.0	43

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109	Role of the Linker Region Connecting the Reductase and Heme Domains in Cytochrome P450BM-3. <i>Biochemistry</i> , 1995, 34, 11221-11226.	1.2	40
110	The FMN to Heme Electron Transfer in Cytochrome P450BM-3. <i>Journal of Biological Chemistry</i> , 1999, 274, 36097-36106.	1.6	40
111	Role of Zinc in Isoform-Selective Inhibitor Binding to Neuronal Nitric Oxide Synthase,. <i>Biochemistry</i> , 2010, 49, 10803-10810.	1.2	40
112	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
113	Resonance Raman spectroscopy shows different temperature-dependent coordination equilibria for native horseradish and cytochrome c peroxidase. <i>FEBS Letters</i> , 1985, 190, 221-226.	1.3	39
114	Preliminary crystallographic analysis of an enzyme involved in erythromycin biosynthesis: Cytochrome P450eryF. <i>Proteins: Structure, Function and Bioinformatics</i> , 1994, 20, 197-201.	1.5	39
115	A Novel Heme and Peroxide-dependent Tryptophan-tyrosine Cross-link in a Mutant of Cytochrome c Peroxidase. <i>Journal of Molecular Biology</i> , 2003, 328, 157-166.	2.0	39
116	Crystal structures of ferrous and ferrous-NO forms of verdoheme in a complex with human heme oxygenase-1: catalytic implications for heme cleavage. <i>Journal of Inorganic Biochemistry</i> , 2004, 98, 1686-1695.	1.5	39
117	Structural Basis for Isoform-Selective Inhibition in Nitric Oxide Synthase. <i>Accounts of Chemical Research</i> , 2013, 46, 390-398.	7.6	39
118	Electrostatic Control of Isoform Selective Inhibitor Binding in Nitric Oxide Synthase. <i>Biochemistry</i> , 2016, 55, 3702-3707.	1.2	39
119	Laser Flash Induced Electron Transfer in P450cam Monooxygenase: Putidaredoxin Reductase-Putidaredoxin Interaction. <i>Biochemistry</i> , 2001, 40, 10592-10600.	1.2	38
120	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
121	Nitric oxide synthase and structure-based inhibitor design. <i>Nitric Oxide - Biology and Chemistry</i> , 2017, 63, 68-77.	1.2	38
122	Isoform-Selective Substrates of Nitric Oxide Synthase. <i>Journal of Medicinal Chemistry</i> , 2003, 46, 2271-2274.	2.9	37
123	Role of Electrostatics and Salt Bridges in Stabilizing the Compound I Radical in Ascorbate Peroxidase. <i>Biochemistry</i> , 2005, 44, 14062-14068.	1.2	37
124	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
125	Electron Transfer between the FMN and Heme Domains of Cytochrome P450BM-3. <i>Journal of Biological Chemistry</i> , 1997, 272, 7922-7926.	1.6	35
126	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

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127	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
128	Heme Binding Biguanides Target Cytochrome P450-Dependent Cancer Cell Mitochondria. <i>Cell Chemical Biology</i> , 2017, 24, 1259-1275.e6.	2.5	35
129	Inhibition Mechanisms of Human Indoleamine 2,3 Dioxygenase 1. <i>Journal of the American Chemical Society</i> , 2018, 140, 8518-8525.	6.6	35
130	The homologous tryptophan critical for cytochrome c peroxidase function is not essential for ascorbate peroxidase activity. <i>Journal of Biological Inorganic Chemistry</i> , 1996, 1, 61-66.	1.1	34
131	A study of the K ⁺ -site mutant of ascorbate peroxidase: mutations of protein residues on the proximal side of the heme cause changes in iron ligation on the distal side. <i>Journal of Biological Inorganic Chemistry</i> , 1999, 4, 64-72.	1.1	34
132	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
133	Structural Characterization and Kinetics of Nitric-oxide Synthase Inhibition by Novel N5-(Iminoalkyl)- and N5-(Iminoalkenyl)-ornithines. <i>Journal of Biological Chemistry</i> , 2003, 278, 46789-46797.	1.6	33
134	Intermediates in P450 catalysis. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2005, 363, 793-806.	1.6	33
135	Structures of human constitutive nitric oxide synthases. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 2667-2674.	2.5	33
136	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
137	Crystal Structure of <i>Leishmania major</i> Peroxidase and Characterization of the Compound I Tryptophan Radical. <i>Journal of Biological Chemistry</i> , 2011, 286, 24608-24615.	1.6	32
138	Calmodulin activates neuronal nitric oxide synthase by enabling transitions between conformational states. <i>FEBS Letters</i> , 2013, 587, 44-47.	1.3	32
139	Substrate-Dependent Allosteric Regulation in Cytochrome P450cam (CYP101A1). <i>Journal of the American Chemical Society</i> , 2018, 140, 16222-16228.	6.6	32
140	Conversion of an Engineered Potassium-binding Site into a Calcium-selective Site in Cytochrome c Peroxidase. <i>Journal of Biological Chemistry</i> , 1999, 274, 37827-37833.	1.6	31
141	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
142	Crystal Structure of the Putidaredoxin Reductase-Putidaredoxin Electron Transfer Complex. <i>Journal of Biological Chemistry</i> , 2010, 285, 13616-13620.	1.6	30
143	Structures of the Neuronal and Endothelial Nitric Oxide Synthase Heme Domain withd-Nitroarginine-Containing Dipeptide Inhibitors Bound. <i>Biochemistry</i> , 2004, 43, 5181-5187.	1.2	29
144	Structure-Based Design and Synthesis of N ^ω -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

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