Andrew W Munro

List of Publications by Year
in descending order

192 papers	8,987 citations	31976 53 h-index	51608 86 g-index
198 all docs	198 docs citations	198 times ranked	6623 citing authors

#	Article	IF	Citations
1	A new strategy for hit generation: Novel in cellulo active inhibitors of CYP121A1 from Mycobacterium tuberculosis via a combined X-ray crystallographic and phenotypic screening approach (XP screen). European Journal of Medicinal Chemistry, 2022, 230, 114105.	5.5	4
2	A Promiscuous Bacterial P450: The Unparalleled Diversity of BM3 in Pharmaceutical Metabolism. International Journal of Molecular Sciences, 2021, 22, 11380.	4.1	12
3	Catalytic Mechanism of Aromatic Nitration by Cytochrome P450 TxtE: Involvement of a Ferric-Peroxynitrite Intermediate. Journal of the American Chemical Society, 2020, 142, 15764-15779.	13.7	55
4	Clobetasol Propionate Is a Heme-Mediated Selective Inhibitor of Human Cytochrome P450 3A5. Journal of Medicinal Chemistry, 2020, 63, 1415-1433.	6.4	28
5	Characterization of the structure and interactions of P450 BM3 using hybrid mass spectrometry approaches. Journal of Biological Chemistry, 2020, 295, 7595-7607.	3.4	7
6	Design and Synthesis of Imidazole and Triazole Pyrazoles as Mycobacterium Tuberculosis CYP121A1 Inhibitors. ChemistryOpen, 2019, 8, 995-1011.	1.9	19
7	Structureâ€“Activity Relationships of cyclo(<scp>l</scp>-Tyrosyl-<scp>l</scp>-tyrosine) Derivatives Binding to Mycobacterium tuberculosis CYP121: Iodinated Analogues Promote Shift to High-Spin Adduct. Journal of Medicinal Chemistry, 2019, 62, 9792-9805.	6.4	19
8	MhuD from Mycobacterium tuberculosis: Probing a Dual Role in Heme Storage and Degradation. ACS Infectious Diseases, 2019, 5, 1855-1866.	3.8	8
9	Novel insights into P450 BM3 interactions with FDA-approved antifungal azole drugs. Scientific Reports, 2019, 9, 1577.	3.3	17
10	Synthesis and biological evaluation of novel cYY analogues targeting Mycobacterium tuberculosis CYP121A1. Bioorganic and Medicinal Chemistry, 2019, 27, 1546-1561.	3.0	14
11	P450-Catalyzed Regio- and Diastereoselective Steroid Hydroxylation: Efficient Directed Evolution Enabled by Mutability Landscaping. ACS Catalysis, 2018, 8, 3395-3410.	11.2	128
12	Structure and function of the cytochrome P450 peroxygenase enzymes. Biochemical Society Transactions, 2018, 46, 183-196.	3.4	138
13	Design, synthesis and evaluation against Mycobacterium tuberculosis of azole piperazine derivatives as dicyclotyrosine (cYY) mimics. Bioorganic and Medicinal Chemistry, 2018, 26, 161-176.	3.0	13
14	Resonance Raman studies of Bacillus megaterium cytochrome P450 BM3 and biotechnologically important mutants. Journal of Raman Spectroscopy, 2018, 49, 287-297.	2.5	3
15	Cytochrome P450 1A1 opens up to new substrates. Journal of Biological Chemistry, 2018, 293, 19211-19212.	3.4	5
16	Structural and catalytic properties of the peroxygenase P450 enzyme CYP152K6 from Bacillus methanolicus. Journal of Inorganic Biochemistry, 2018, 188, 18-28.	3.5	18
17	Characterization of Cytochrome P450 Enzymes and Their Applications in Synthetic Biology. Methods in Enzymology, 2018, 608, 189-261.	1.0	14
18	Cytochrome P450 (cyp). , 2018, , 1288-1305.		0

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19	Catalytic Determinants of Alkene Production by the Cytochrome P450 Peroxygenase OleTJE. Journal of Biological Chemistry, 2017, 292, 5128-5143.	3.4	73
20	Production of alkenes and novel secondary products by P450 Ole<scp>T_{JE}</scp> using novel H₂O₂â€generating fusion protein systems. FEBS Letters, 2017, 591, 737-750.	2.8	58
21	Fragment Profiling Approach to Inhibitors of the Orphan M. tuberculosis P450 CYP144A1. Biochemistry, 2017, 56, 1559-1572.	2.5	5
22	Structural Characterization and Ligand/Inhibitor Identification Provide Functional Insights into the Mycobacterium tuberculosis Cytochrome P450 CYP126A1. Journal of Biological Chemistry, 2017, 292, 1310-1329.	3.4	13
23	Effect of DMSO on Protein Structure and Interactions Assessed by Collision-Induced Dissociation and Unfolding. Analytical Chemistry, 2017, 89, 9976-9983.	6.5	34
24	Expression, Purification, and Biochemical Characterization of the Flavocytochrome P450 CYP505A30 from Myceliophthora thermophila. ACS Omega, 2017, 2, 4705-4724.	3.5	21
25	Novel Aryl Substituted Pyrazoles as Small Molecule Inhibitors of Cytochrome P450 CYP121A1: Synthesis and Antimycobacterial Evaluation. Journal of Medicinal Chemistry, 2017, 60, 10257-10267.	6.4	26
26	Drug targeting of heme proteins in Mycobacterium tuberculosis. Drug Discovery Today, 2017, 22, 566-575.	6.4	20
27	Analysis of Heme Iron Coordination in DGCR8: The Heme-Binding Component of the Microprocessor Complex. Biochemistry, 2016, 55, 5073-5083.	2.5	11
28	Structural characterization of CYP144A1 â€“ a cytochrome P450 enzyme expressed from alternative transcripts in Mycobacterium tuberculosis. Scientific Reports, 2016, 6, 26628.	3.3	7
29	Substrate Fragmentation for the Design of M.â€...tuberculosis CYP121 Inhibitors. ChemMedChem, 2016, 11, 1924-1935.	3.2	15
30	An oxidative N-demethylase reveals PAS transition from ubiquitous sensor to enzyme. Nature, 2016, 539, 593-597.	27.8	21
31	Applications of microbial cytochrome P450 enzymes in biotechnology and synthetic biology. Current Opinion in Chemical Biology, 2016, 31, 136-145.	6.1	212
32	Fragment-Based Approaches to the Development of Mycobacterium tuberculosis CYP121 Inhibitors. Journal of Medicinal Chemistry, 2016, 59, 3272-3302.	6.4	47
33	Cytochrome P450 (cyp). , 2016, , 1-18.		0
34	Biological Diversity of Cytochrome P450 Redox Partner Systems. Advances in Experimental Medicine and Biology, 2015, 851, 299-317.	1.6	49
35	Microbial Cytochromes P450. , 2015, , 261-407.		17
36	Single-step fermentative production of the cholesterol-lowering drug pravastatin via reprogramming of Penicillium chrysogenum. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2847-2852.	7.1	112

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37	Human P450-like oxidation of diverse proton pump inhibitor drugs by â€˜gatekeeperâ€™ mutants of flavocytochrome P450 BM3. Biochemical Journal, 2014, 460, 247-259.	3.7	31
38	Biofragments: An Approach towards Predicting Protein Function Using Biologically Related Fragments and its Application to Mycobacterium tuberculosis CYP126. ChemBioChem, 2014, 15, 549-555.	2.6	6
39	Structure and Biochemical Properties of the Alkene Producing Cytochrome P450 OleTJE (CYP152L1) from the Jeotgalicoccus sp. 8456 Bacterium. Journal of Biological Chemistry, 2014, 289, 6535-6550.	3.4	153
40	The structure, function and properties of sirohaem decarboxylase â€“ an enzyme with structural homology to a transcription factor family that is part of the alternative haem biosynthesis pathway. Molecular Microbiology, 2014, 93, 247-261.	2.5	14
41	Strength of Axial Water Ligation in Substrate-Free Cytochrome P450s Is Isoform Dependent. Biochemistry, 2014, 53, 1428-1434.	2.5	24
42	Electron Transfer Cofactors. , 2013, , 601-606.		7
43	Electron transfer reactions, cyanide and O2 binding of truncated hemoglobin from Bacillus subtilis. Electrochimica Acta, 2013, 110, 86-93.	5.2	16
44	What makes a P450 tick?. Trends in Biochemical Sciences, 2013, 38, 140-150.	7.5	181
45	Nanoelectrospray Ionization Mass Spectrometric Study of Mycobacterium tuberculosis CYP121â€“Ligand Interactions. Analytical Chemistry, 2013, 85, 5707-5714.	6.5	12
46	Overcoming the Limitations of Fragment Merging: Rescuing a Strained Merged Fragment Series Targeting Mycobacterium tuberculosis CYP121. ChemMedChem, 2013, 8, 1451-1456.	3.2	28
47	Key Mutations Alter the Cytochrome P450 BM3 Conformational Landscape and Remove Inherent Substrate Bias. Journal of Biological Chemistry, 2013, 288, 25387-25399.	3.4	62
48	Heme Sensor Proteins. Journal of Biological Chemistry, 2013, 288, 13194-13203.	3.4	116
49	Unusual Cytochrome P450 Enzymes and Reactions. Journal of Biological Chemistry, 2013, 288, 17065-17073.	3.4	275
50	Overview on Theoretical Studies Discriminating the Two-Oxidant Versus Two-State-Reactivity Models for Substrate Monoxygenation by Cytochrome P450 Enzymes. Current Topics in Medicinal Chemistry, 2013, 13, 2218-2232.	2.1	15
51	Bacillus megaterium Has Both a Functional BluB Protein Required for DMB Synthesis and a Related Flavoprotein That Forms a Stable Radical Species. PLoS ONE, 2013, 8, e55708.	2.5	20
52	AFM study of cytochrome CYP102A1 oligomeric state. Soft Matter, 2012, 8, 4602.	2.7	33
53	Application of Fragment Screening and Merging to the Discovery of Inhibitors of the Mycobacterium tuberculosis Cytochromeâ€…P450 CYP121. Angewandte Chemie - International Edition, 2012, 51, 9311-9316.	13.8	69
54	Cholesterol, an essential molecule: diverse roles involving cytochrome P450 enzymes. Biochemical Society Transactions, 2012, 40, 587-593.	3.4	51

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55	Mycobacterium tuberculosis cytochrome P450 enzymes: a cohort of novel TB drug targets. Biochemical Society Transactions, 2012, 40, 573-579.	3.4	26
56	Unusual Spectroscopic and Ligand Binding Properties of the Cytochrome P450-Flavodoxin Fusion Enzyme XplA. Journal of Biological Chemistry, 2012, 287, 19699-19714.	3.4	27
57	Characterization of Cupriavidusâ€ƒmetallidurans CYP116B1 â€“ A thiocarbamate herbicide oxygenating P450â€“phthalate dioxygenase reductase fusion protein. FEBS Journal, 2012, 279, 1675-1693.	4.7	37
58	The crystal structure of the FAD/NADPHâ€binding domain of flavocytochromeâ€ƒP450â€ƒBM3. FEBS Journal, 2012, 279, 1694-1706.	4.7	42
59	FdC1, a Novel Ferredoxin Protein Capable of Alternative Electron Partitioning, Increases in Conditions of Acceptor Limitation at Photosystem I. Journal of Biological Chemistry, 2011, 286, 50-59.	3.4	47
60	A Novel Intermediate in the Reaction of Seleno CYP119 with m-Chloroperbenzoic Acid. Biochemistry, 2011, 50, 3014-3024.	2.5	17
61	Flavocytochrome P450 BM3 mutant W1046A is a NADH-dependent fatty acid hydroxylase: Implications for the mechanism of electron transfer in the P450 BM3 dimer. Archives of Biochemistry and Biophysics, 2011, 507, 75-85.	3.0	38
62	Analysis of the oxidation of short chain alkynes by flavocytochrome P450 BM3. Metallomics, 2011, 3, 369.	2.4	5
63	Expression and characterization of Mycobacterium tuberculosis CYP144: Common themes and lessons learned in the M. tuberculosis P450 enzyme family. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 76-87.	2.3	23
64	Tyrosyl Radical Formation and Propagation in Flavin Dependent Monoamine Oxidases. ChemBioChem, 2010, 11, 1228-1231.	2.6	25
65	Structural and Biochemical Characterization of Mycobacterium tuberculosis CYP142. Journal of Biological Chemistry, 2010, 285, 38270-38282.	3.4	104
66	Glutamateâ€“haem ester bond formation is disfavoured in flavocytochrome P450 BM3: characterization of glutamate substitution mutants at the haem site of P450 BM3. Biochemical Journal, 2010, 427, 455-466.	3.7	13
67	The Mycobacterium tuberculosis cytochromes P450: physiology, biochemistry & molecular intervention. Future Medicinal Chemistry, 2010, 2, 1339-1353.	2.3	29
68	Characterisation of PduS, the pdu Metabolosome Corrin Reductase, and Evidence of Substructural Organisation within the Bacterial Microcompartment. PLoS ONE, 2010, 5, e14009.	2.5	36
69	The Structure of Mycobacterium tuberculosis CYP125. Journal of Biological Chemistry, 2009, 284, 35524-35533.	3.4	102
70	Demonstration That CobG, the Monooxygenase Associated with the Ring Contraction Process of the Aerobic Cobalamin (Vitamin B12) Biosynthetic Pathway, Contains an Fe-S Center and a Mononuclear Non-heme Iron Center. Journal of Biological Chemistry, 2009, 284, 4796-4805.	3.4	16
71	Probing the molecular determinants of coenzyme selectivity in the P450 BM3 FAD/NADPH domain. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2009, 1794, 1181-1189.	2.3	8
72	Internal electron transfer in multi-site redox enzymes is accessed by laser excitation of thiouredopyrene-3,6,8-trisulfonate (TUPS). Chemical Communications, 2009, , 1124.	4.1	11

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73	Characterization of coenzyme binding and selectivity determinants in Mycobacterium tuberculosis flavoprotein reductase A: analysis of Arg199 and Arg200 mutants at the NADP(H) 2â€²-phosphate binding site. Biochemical Journal, 2009, 417, 103-114.	3.7	9
74	Novel haem co-ordination variants of flavocytochrome P450 BM3. Biochemical Journal, 2009, 417, 65-80.	3.7	32
75	Enzyme Mechanisms: Fast Reaction and Computational Approaches. Biochemical Society Transactions, 2009, 37, 333-335.	3.4	1
76	Heme and Hemoproteins. , 2009, , 160-183.		21
77	Biochemical and Structural Insights into Bacterial Organelle Form and Biogenesis. Journal of Biological Chemistry, 2008, 283, 14366-14375.	3.4	133
78	How Do Azoles Inhibit Cytochrome P450 Enzymes? A Density Functional Study. Journal of Physical Chemistry A, 2008, 112, 12911-12918.	2.5	76
79	The pH dependence of kinetic isotope effects in monoamine oxidase A indicates stabilization of the neutral amine in the enzymeâ€“substrate complex. FEBS Journal, 2008, 275, 3850-3858.	4.7	57
80	Interâ€flavin electron transfer in cytochrome P450 reductase â€“ effects of solvent and pH identify hidden complexity in mechanism. FEBS Journal, 2008, 275, 4540-4557.	4.7	39
81	Structural Biology and Biochemistry of Cytochrome P450 Systems inMycobacterium tuberculosis. Drug Metabolism Reviews, 2008, 40, 427-446.	3.6	42
82	Identification, Characterization, and Structure/Function Analysis of a Corrin Reductase Involved in Adenosylcobalamin Biosynthesis. Journal of Biological Chemistry, 2008, 283, 10813-10821.	3.4	29
83	Characterization of Active Site Structure in CYP121: A Cytochrome P450 Essential for Viability of Mycobacterium Tuberculosis H37Rv*. Journal of Biological Chemistry, 2008, 283, 33406-33416.	3.4	114
84	Trp359 regulates flavin thermodynamics and coenzyme selectivity in Mycobacterium tuberculosis FprA. Biochemical Journal, 2008, 411, 563-570.	3.7	4
85	Rapid P450 Heme Iron Reduction by Laser Photoexcitation of Mycobacterium tuberculosis CYP121 and CYP51B1. Journal of Biological Chemistry, 2007, 282, 24816-24824.	3.4	50
86	Structural and Spectroscopic Characterization of P450 BM3 Mutants with Unprecedented P450 Heme Iron Ligand Sets. Journal of Biological Chemistry, 2007, 282, 564-572.	3.4	64
87	DNA Binding Suppresses Human AIF-M2 Activity and Provides a Connection between Redox Chemistry, Reactive Oxygen Species, and Apoptosis. Journal of Biological Chemistry, 2007, 282, 30331-30340.	3.4	36
88	Cytochrome P450/redox partner fusion enzymes: biotechnological and toxicological prospects. Expert Opinion on Drug Metabolism and Toxicology, 2007, 3, 847-863.	3.3	29
89	Bacterial Flavodoxins Support Nitric Oxide Production by Bacillus subtilis Nitric-oxide Synthase. Journal of Biological Chemistry, 2007, 282, 2196-2202.	3.4	83
90	Structure, function and drug targeting in Mycobacterium tuberculosis cytochrome P450 systems. Archives of Biochemistry and Biophysics, 2007, 464, 228-240.	3.0	66

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91	Cytochrome P450â€“redox partner fusion enzymes. Biochimica Et Biophysica Acta - General Subjects, 2007, 1770, 345-359.	2.4	180
92	Analysis of the Interactions of Cytochromeb₅with Flavocytochrome P450 BM3 and its Domains. Drug Metabolism Reviews, 2007, 39, 599-617.	3.6	13
93	Conformational Dynamics of the Cytochrome P450 BM3/N-Palmitoylglycine Complex:â€‰ The Proposed â€œProximalâ^'Distalâ€•Transition Probed by Temperature-Jump Spectroscopy. Journal of Physical Chemistry B, 2007, 111, 7879-7886.	2.6	16
94	Laser Photoexcitation of NAD(P)H Induces Reduction of P450 BM3 Heme Domain on the Microsecond Time Scale. Journal of the American Chemical Society, 2007, 129, 6647-6653.	13.7	16
95	The Redox Properties of Ascorbate Peroxidase. Biochemistry, 2007, 46, 8017-8023.	2.5	33
96	Conformational and Thermodynamic Control of Electron Transfer in Neuronal Nitric Oxide Synthase. Biochemistry, 2007, 46, 5018-5029.	2.5	53
97	Variations on a (t)hemeâ€”novel mechanisms, redox partners and catalytic functions in the cytochrome P450 superfamily. Natural Product Reports, 2007, 24, 585-609.	10.3	256
98	Interactions of Cytochrome P450 with Nitric Oxide and Related Ligands. , 2007, , 285-317.		0
99	Biophysical Characterization of the Sterol Demethylase P450 from Mycobacterium tuberculosis, Its Cognate Ferredoxin, and Their Interactions. Biochemistry, 2006, 45, 8427-8443.	2.5	85
100	The preponderance of P450s in the Mycobacterium tuberculosis genome. Trends in Microbiology, 2006, 14, 220-228.	7.7	67
101	Introduction. Quantum catalysis in enzymes: beyond the transition state theory paradigm. Philosophical Transactions of the Royal Society B: Biological Sciences, 2006, 361, 1293-1294.	4.0	19
102	Lys-D48 Is Required for Charge Stabilization, Rapid Flavin Reduction, and Internal Electron Transfer in the Catalytic Cycle of Dihydroorotate Dehydrogenase B of Lactococcus lactis*. Journal of Biological Chemistry, 2006, 281, 17977-17988.	3.4	3
103	Crystal Structure of the Mycobacterium tuberculosis P450 CYP121-Fluconazole Complex Reveals New Azole Drug-P450 Binding Mode. Journal of Biological Chemistry, 2006, 281, 39437-39443.	3.4	109
104	Proton transfer in the oxidative half-reaction of pentaerythritol tetranitrate reductase. Structure of the reduced enzyme-progesterone complex and the roles of residues Tyr186, His181 and His184. FEBS Journal, 2005, 272, 4660-4671.	4.7	28
105	The Human Apoptosis-inducing Protein AMID Is an Oxidoreductase with a Modified Flavin Cofactor and DNA Binding Activity. Journal of Biological Chemistry, 2005, 280, 30735-30740.	3.4	82
106	Identification and Characterization of the Terminal Enzyme of Siroheme Biosynthesis from Arabidopsis thaliana. Journal of Biological Chemistry, 2005, 280, 4713-4721.	3.4	42
107	Identification and Characterization of a Novel Vitamin B12 (Cobalamin) Biosynthetic Enzyme (CobZ) from Rhodobacter capsulatus, Containing Flavin, Heme, and Fe-S Cofactors. Journal of Biological Chemistry, 2005, 280, 1086-1094.	3.4	52
108	Switching Pyridine Nucleotide Specificity in P450 BM3. Journal of Biological Chemistry, 2005, 280, 17634-17644.	3.4	51

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109	A Stable Tyrosyl Radical in Monoamine Oxidase A. Journal of Biological Chemistry, 2005, 280, 4627-4631.	3.4	45
110	Cytochrome P450s: creating novel ligand sets. Dalton Transactions, 2005, , 3419.	3.3	2
111	Role of Active Site Residues and Solvent in Proton Transfer and the Modulation of Flavin Reduction Potential in Bacterial Morphinone Reductase. Journal of Biological Chemistry, 2005, 280, 27103-27110.	3.4	24
112	Reaction of Morphinone Reductase with 2-Cyclohexen-1-one and 1-Nitrocyclohexene. Journal of Biological Chemistry, 2005, 280, 10695-10709.	3.4	23
113	Redox and Spectroscopic Properties of Human Indoleamine 2,3-Dioxygenase and A His303Ala Variant:Â Implications for Catalysisâ€. Biochemistry, 2005, 44, 14318-14328.	2.5	79
114	The dimeric form of flavocytochrome P450 BM3 is catalytically functional as a fatty acid hydroxylase. FEBS Letters, 2005, 579, 5582-5588.	2.8	107
115	Electron Transfer Partners of Cytochrome P450. , 2005, , 115-148.		46
116	A Single Mutation in Cytochrome P450 BM3 Induces the Conformational Rearrangement Seen upon Substrate Binding in the Wild-type Enzyme. Journal of Biological Chemistry, 2004, 279, 23287-23293.	3.4	59
117	Flavocytochrome P450 BM3 Mutant A264E Undergoes Substrate-dependent Formation of a Novel Heme Iron Ligand Set. Journal of Biological Chemistry, 2004, 279, 23274-23286.	3.4	67
118	Atomic Resolution Structures and Solution Behavior of Enzyme-Substrate Complexes of Enterobacter cloacae PB2 Pentaerythritol Tetranitrate Reductase. Journal of Biological Chemistry, 2004, 279, 30563-30572.	3.4	41
119	Thermodynamic and kinetic analysis of the isolated FAD domain of rat neuronal nitric oxide synthase altered in the region of the FAD shielding residue Phe1395. FEBS Journal, 2004, 271, 2548-2560.	0.2	24
120	Thermodynamic and Biophysical Characterization of Cytochrome P450 BioI fromBacillus subtilisâ€. Biochemistry, 2004, 43, 12410-12426.	2.5	57
121	Interaction of Nitric Oxide with Cytochrome P450 BM3â€. Biochemistry, 2004, 43, 16416-16431.	2.5	46
122	Kinetic and Thermodynamic Characterization of the Common Polymorphic Variants of Human Methionine Synthase Reductase. Biochemistry, 2004, 43, 1988-1997.	2.5	44
123	Expression, Purification, and Characterization ofBacillus subtilisCytochromes P450 CYP102A2 and CYP102A3:Â Flavocytochrome Homologues of P450 BM3 fromBacillus megateriumâ€. Biochemistry, 2004, 43, 5474-5487.	2.5	133
124	Thermodynamic Basis of Electron Transfer in Dihydroorotate Dehydrogenase B fromLactococcus lactis:Â Analysis by Potentiometry, EPR Spectroscopy, and ENDOR Spectroscopyâ€. Biochemistry, 2004, 43, 6498-6510.	2.5	19
125	Expression and Characterization of the Two Flavodoxin Proteins ofBacillus subtilis, YkuN and YkuP:Â Biophysical Properties and Interactions with Cytochrome P450 BioIâ€. Biochemistry, 2004, 43, 12390-12409.	2.5	77
126	Determination of the redox potentials and electron transfer properties of the FAD- and FMN-binding domains of the human oxidoreductase NR1. FEBS Journal, 2003, 270, 1164-1175.	0.2	39

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127	Interflavin electron transfer in human cytochrome P450 reductase is enhanced by coenzyme binding. Relaxation kinetic studies with coenzyme analogues. FEBS Journal, 2003, 270, 2612-2621.	0.2	51
128	Expression, purification and characterisation of a Bacillus subtilis ferredoxin: a potential electron transfer donor to cytochrome P450 BioI. Journal of Inorganic Biochemistry, 2003, 93, 92-99.	3.5	50
129	Electron Transfer in Flavocytochrome P450 BM3:Â Kinetics of Flavin Reduction and Oxidation, the Role of Cysteine 999, and Relationships with Mammalian Cytochrome P450 Reductaseâ€. Biochemistry, 2003, 42, 10809-10821.	2.5	44
130	Molecular Dissection of Human Methionine Synthase Reductase:â€‰ Determination of the Flavin Redox Potentials in Full-Length Enzyme and Isolated Flavin-Binding Domains. Biochemistry, 2003, 42, 3911-3920.	2.5	54
131	Atomic Structure of Mycobacterium tuberculosis CYP121 to 1.06 Ã... Reveals Novel Features of Cytochrome P450. Journal of Biological Chemistry, 2003, 278, 5141-5147.	3.4	126
132	Characterization of the Cobaltochelatase CbiXL. Journal of Biological Chemistry, 2003, 278, 41900-41907.	3.4	49
133	Kinetic, spectroscopic and thermodynamic characterization of the Mycobacterium tuberculosis adrenodoxin reductase homologue FprA. Biochemical Journal, 2003, 372, 317-327.	3.7	43
134	Azole antifungals are potent inhibitors of cytochrome P450 mono-oxygenases and bacterial growth in mycobacteria and streptomycetes. Microbiology (United Kingdom), 2002, 148, 2937-2949.	1.8	162
135	Kinetic and Structural Basis of Reactivity of Pentaerythritol Tetranitrate Reductase with NADPH, 2-Cyclohexenone, Nitroesters, and Nitroaromatic Explosives. Journal of Biological Chemistry, 2002, 277, 21906-21912.	3.4	79
136	P450 BM3: the very model of a modern flavocytochrome. Trends in Biochemical Sciences, 2002, 27, 250-257.	7.5	385
137	Crystallization and preliminary crystallographic analysis of a novel cytochrome P450 fromMycobacterium tuberculosis. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 704-705.	2.5	5
138	Catalytically functional flavocytochrome chimeras of P450 BM3 and nitric oxide synthase. Journal of Inorganic Biochemistry, 2002, 91, 515-526.	3.5	22
139	Expression, purification and spectroscopic characterization of the cytochrome P450 CYP121 from Mycobacterium tuberculosis. Journal of Inorganic Biochemistry, 2002, 91, 527-541.	3.5	89
140	Role of the Conserved Phenylalanine 181 of NADPHâ^'Cytochrome P450 Oxidoreductase in FMN Binding and Catalytic Activityâ€. Biochemistry, 2001, 40, 13439-13447.	2.5	14
141	Phenylalanine 393 Exerts Thermodynamic Control over the Heme of Flavocytochrome P450 BM3â€. Biochemistry, 2001, 40, 13421-13429.	2.5	106
142	Determination of the Redox Properties of Human NADPH-Cytochrome P450 Reductase. Biochemistry, 2001, 40, 1956-1963.	2.5	149
143	Structural and Spectroscopic Analysis of the F393H Mutant of Flavocytochrome P450 BM3â€. Biochemistry, 2001, 40, 13430-13438.	2.5	54
144	Effects of environment on flavin reactivity in morphinone reductase: analysis of enzymes displaying differential charge near the N-1 atom and C-2 carbonyl region of the active-site flavin. Biochemical Journal, 2001, 359, 315.	3.7	10

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145	Effects of environment on flavin reactivity in morphinone reductase: analysis of enzymes displaying differential charge near the N-1 atom and C-2 carbonyl region of the active-site flavin. Biochemical Journal, 2001, 359, 315-323.	3.7	15
146	Cytochromes P450 as drug targets in Mycobacterium tuberculosis. Biochemical Society Transactions, 2001, 29, A33-A33.	3.4	0
147	Use of high pressure to study elementary steps in P450 and nitric oxide synthase. Journal of Inorganic Biochemistry, 2001, 87, 191-195.	3.5	12
148	Expression, purification and characterization of cytochrome P450 Biol: a novel P450 involved in biotin synthesis in Bacillus subtilis. Journal of Biological Inorganic Chemistry, 2001, 6, 523-533.	2.6	48
149	Î±Arg-237 in Methylophilus methylotrophus (sp. W3A1) Electron-transferring Flavoprotein Affords â^¼200-Millivolt Stabilization of the FAD Anionic Semiquinone and a Kinetic Block on Full Reduction to the Dihydroquinone. Journal of Biological Chemistry, 2001, 276, 20190-20196.	3.4	31
150	Probing the NADPH-binding site of Escherichia coli flavodoxin oxidoreductase. Biochemical Journal, 2000, 352, 257.	3.7	6
151	The genome sequence ofMycobacterium tuberculosis reveals cytochromes P450 as novel anti-TB drug targets. Journal of Chemical Technology and Biotechnology, 2000, 75, 933-941.	3.2	17
152	Flexibility and stability of the structure of cytochromes P450â€ƒ3A4 and BM-3. FEBS Journal, 2000, 267, 2916-2920.	0.2	44
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154	Protein engineering of cytochromes P-450. BBA - Proteins and Proteomics, 2000, 1543, 383-407.	2.1	57
155	Changing the heme ligation in flavocytochrome b 2: substitution of histidine-66 by cysteine. Journal of Biological Inorganic Chemistry, 2000, 5, 584-592.	2.6	9
156	Flavocytochrome P450 BM3 Substrate Selectivity and Electron Transfer in a Model Cytochrome P450. Sub-Cellular Biochemistry, 2000, 35, 297-315.	2.4	3
157	Structural Similarities and Differences of the Heme Pockets of Various P450 Isoforms as Revealed by Resonance Raman Spectroscopy. Archives of Biochemistry and Biophysics, 2000, 383, 70-78.	3.0	23
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159	The genome sequence of Mycobacterium tuberculosis reveals cytochromes P450 as novel antiâ€TB drug targets. Journal of Chemical Technology and Biotechnology, 2000, 75, 933-941.	3.2	4
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