F Peter Guengerich

List of Publications by Year
in descending order

558	45,964	1990 101	2825 191
papers	citations	h-index	g-index

574	574	574	26400
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The P450 Superfamily: Update on New Sequences, Gene Mapping, Accession Numbers, Early Trivial Names of Enzymes, and Nomenclature. DNA and Cell Biology, 1993, 12, 1-51.	0.9	1,596
2	Common and Uncommon Cytochrome P450 Reactions Related to Metabolism and Chemical Toxicity. Chemical Research in Toxicology, 2001, 14, 611-650.	1.7	1,456
3	Cytochrome P450 and Chemical Toxicology. Chemical Research in Toxicology, 2008, 21, 70-83.	1.7	1,292
4	Role of human cytochrome P-450 IIE1 in the oxidation of many low molecular weight cancer suspects. Chemical Research in Toxicology, 1991, 4, 168-179.	1.7	1,170
5	CYTOCHROME P-450 3A4: Regulation and Role in Drug Metabolism. Annual Review of Pharmacology and Toxicology, 1999, 39, 1-17.	4.2	1,121
6	The P450 Superfamily: Update on New Sequences, Gene Mapping, and Recommended Nomenclature. DNA and Cell Biology, 1991, 10, 1-14.	0.9	1,086
7	Purification and characterization of liver microsomal cytochromes P-450: electrophoretic, spectral, catalytic, and immunochemical properties and inducibility of eight isozymes isolated from rats treated with phenobarbital or .beta.-naphthoflavone. Biochemistry, 1982, 21, 6019-6030.	1.2	1,064
8	Oxidation of toxic and carcinogenic chemicals by human cytochrome P-450 enzymes. Chemical Research in Toxicology, 1991, 4, 391-407.	1.7	1,003
9	Mapping the Genetic Architecture of Gene Expression in Human Liver. PLoS Biology, 2008, 6, e107.	2.6	872
10	The P450 Gene Superfamily: Recommended Nomenclature. DNA and Cell Biology, 1987, 6, 1-11.	5.1	790
11	Regulation of rat hepatic cytochrome P-450: age-dependent expression, hormonal imprinting, and xenobiotic inducibility of sex-specific isoenzymes. Biochemistry, 1985, 24, 4409-4417.	1.2	595
12	Chemical mechanisms of catalysis by cytochromes P-450: a unified view. Accounts of Chemical Research, 1984, 17, 9-16.	7.6	522
13	Hydroxylation of chlorzoxazone as a specific probe for human liver cytochrome P-450IIE1. Chemical Research in Toxicology, 1990, 3, 566-573.	1.7	516
14	Cytochrome P450s and other enzymes in drug metabolism and toxicity. AAPS Journal, 2006, 8, E101-E111.	2.2	499
15	Estimation of isozymes of microsomal cytochrome P-450 in rats, rabbits, and humans using immunochemical staining coupled with sodium dodecyl sulfate-polyacrylamide gel electrophoresis. Biochemistry, 1982, 21, 1698-1706.	1.2	427
16	Cytochrome P450 enzymes involved in acetaminophen activation by rat and human liver microsomes and their kinetics. Chemical Research in Toxicology, 1993, 6, 511-518.	1.7	381
17	Complex reactions catalyzed by cytochrome P450 enzymes. Biochimica Et Biophysica Acta - General Subjects, 2007, 1770, 314-329.	1.1	368
18	Cooperativity in Oxidations Catalyzed by Cytochrome P450 3A4. Biochemistry, 1997, 36, 370-381.	1.2	357

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19	Cytochromes P450, Drugs, and Diseases. Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics, 2003, 3, 194-204.	3.4	343
20	Oxidation of 4-aryl- and 4-alkyl-substituted 2,6-dimethyl-3,5-bis(alkoxycarbonyl)-1,4-dihydropyridines by human liver microsomes and immunochemical evidence for the involvement of a form of cytochrome P-450. Journal of Medicinal Chemistry, 1986, 29, 1596-1603.	2.9	327
21	Survey of Human Oxidoreductases and Cytochrome P450 Enzymes Involved in the Metabolism of Xenobiotic and Natural Chemicals. Chemical Research in Toxicology, 2015, 28, 38-42.	1.7	324
22	Measurement of cytochrome P450 and NADPHâ€“cytochrome P450 reductase. Nature Protocols, 2009, 4, 1245-1251.	5.5	310
23	Enzymatic activation of chemicals to toxic metabolites. CRC Critical Reviews in Toxicology, 1985, 14, 259-307.	4.9	295
24	Elucidating mechanisms of drug-induced toxicity. Nature Reviews Drug Discovery, 2005, 4, 410-420.	21.5	284
25	Drug metabolism by Escherichia coli expressing human cytochromes P450. Nature Biotechnology, 1997, 15, 784-788.	9.4	281
26	Mechanism-based inactivation of human liver microsomal cytochrome P-450 IIIA4 by gestodene. Chemical Research in Toxicology, 1990, 3, 363-371.	1.7	280
27	Oxidation of Indole by Cytochrome P450 Enzymesâ€. Biochemistry, 2000, 39, 13817-13824.	1.2	276
28	Unusual Cytochrome P450 Enzymes and Reactions. Journal of Biological Chemistry, 2013, 288, 17065-17073.	1.6	275
29	Oxidation of dihydropyridine calcium channel blockers and analogs by human liver cytochrome P-450 IIIA4. Journal of Medicinal Chemistry, 1991, 34, 1838-1844.	2.9	260
30	Mechanisms of Drug Toxicity and Relevance to Pharmaceutical Development. Drug Metabolism and Pharmacokinetics, 2011, 26, 3-14.	1.1	257
31	Structural analyses of Candida albicans sterol 14Î±-demethylase complexed with azole drugs address the molecular basis of azole-mediated inhibition of fungal sterol biosynthesis. Journal of Biological Chemistry, 2017, 292, 6728-6743.	1.6	255
32	Enzymatic Oxidation of Xenobiotic Chemical. Critical Reviews in Biochemistry and Molecular Biology, 1990, 25, 97-153.	2.3	248
33	Recent Structural Insights into Cytochrome P450 Function. Trends in Pharmacological Sciences, 2016, 37, 625-640.	4.0	248
34	Mechanisms of Cytochrome P450-Catalyzed Oxidations. ACS Catalysis, 2018, 8, 10964-10976.	5.5	243
35	Oxidation of trichloroethylene by liver microsomal cytochrome P-450: evidence for chlorine migration in a transition state not involving trichloroethylene oxide. Biochemistry, 1982, 21, 1090-1097.	1.2	241
36	CYTOCHROME P450 ACTIVATION OF ARYLAMINES AND HETEROCYCLIC AMINES. Annual Review of Pharmacology and Toxicology, 2005, 45, 27-49.	4.2	235

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37	Elucidation of Distinct Ligand Binding Sites for Cytochrome P450 3A4. Biochemistry, 2000, 39, 5929-5939.	1.2	232
38	Mechanisms of cytochrome Pâ€450 catalysis. FASEB Journal, 1990, 4, 2453-2459.	0.2	231
39	Systematic genetic and genomic analysis of cytochrome P450 enzyme activities in human liver. Genome Research, 2010, 20, 1020-1036.	2.4	231
40	Contributions of Human Enzymes in Carcinogen Metabolism. Chemical Research in Toxicology, 2012, 25, 1316-1383.	1.7	230
41	Activation of procarcinogens by human cytochrome P450 enzymes. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 1998, 400, 201-213.	0.4	229
42	Roles of NADPH-P450 Reductase and Apo- and Holo-Cytochrome b5 on Xenobiotic Oxidations Catalyzed by 12 Recombinant Human Cytochrome P450s Expressed in Membranes of Escherichia coli. Protein Expression and Purification, 2002, 24, 329-337.	0.6	224
43	Metabolism of chemical carcinogens. Carcinogenesis, 2000, 21, 345-351.	1.3	220
44	Catalytic activities of human liver cytochrome P-450 IIIA4 expressed in Saccharomyces cerevisiae. Biochemistry, 1990, 29, 11280-11292.	1.2	215
45	Applying Mechanisms of Chemical Toxicity to Predict Drug Safety. Chemical Research in Toxicology, 2007, 20, 344-369.	1.7	214
46	Characterization of human cytochrome P450 enzymes. FASEB Journal, 1992, 6, 745-748.	0.2	212
47	Oxidation of Aflatoxin B1 by Bacterial Recombinant Human Cytochrome P450 Enzymes. Chemical Research in Toxicology, 1995, 8, 218-225.	1.7	208
48	Cytochrome p450 enzymes in the generation of commercial products. Nature Reviews Drug Discovery, 2002, 1, 359-366.	21.5	207
49	Purification and characterization of six cytochrome P-450 isozymes from human liver microsomes. Biochemistry, 1983, 22, 5375-5383.	1.2	203
50	Human Cytochrome P450 Enzymes. , 2005, , 377-530.		203
51	Mechanisms of cytochrome P450 substrate oxidation: MiniReview. Journal of Biochemical and Molecular Toxicology, 2007, 21, 163-168.	1.4	201
52	Oxidation of Benzo[a]pyrene by Recombinant Human Cytochrome P450 Enzymes. Chemical Research in Toxicology, 1995, 8, 136-142.	1.7	199
53	Cytochrome P450 oxidations in the generation of reactive electrophiles: epoxidation and related reactions. Archives of Biochemistry and Biophysics, 2003, 409, 59-71.	1.4	186
54	Glutathione conjugation of aflatoxin B1 exo- and endo-epoxides by rat and human glutathione S-transferases. Chemical Research in Toxicology, 1992, 5, 470-478.	1.7	185

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55	Oxidation-reduction properties of rat liver cytochromes P-450 and NADPH-cytochrome P-450 reductase related to catalysis in reconstituted systems. Biochemistry, 1983, 22, 2811-2820.	1.2	184
56	Cytochrome P450: What Have We Learned and What Are the Future Issues?. Drug Metabolism Reviews, 2004, 36, 159-197.	1.5	183
57	DNA Adduction by the Potent Carcinogen Aflatoxin B1: Mechanistic Studies. Journal of the American Chemical Society, 1994, 116, 1603-1609.	6.6	179
58	Activation of Heterocyclic Aromatic Amines by Rat and Human Liver Microsomes and by Purified Rat and Human Cytochrome P450 1A2â€. Chemical Research in Toxicology, 1998, 11, 925-936.	1.7	174
59	Formation and Cleavage of Câ€“C Bonds by Enzymatic Oxidationâ€“Reduction Reactions. Chemical Reviews, 2018, 118, 6573-6655.	23.0	172
60	Roles of Cytochromes P450 1A2 and 3A4 in the Oxidation of Estradiol and Estrone in Human Liver Microsomes. Chemical Research in Toxicology, 1998, 11, 659-665.	1.7	171
61	Kinetics of Ferric Cytochrome P450 Reduction by NADPHâ^'Cytochrome P450 Reductase:Â Rapid Reduction in the Absence of Substrate and Variations among Cytochrome P450 Systemsâ€. Biochemistry, 1997, 36, 14741-14750.	1.2	169
62	Inhibition of Human Cytochrome P450 1A1-, 1A2-, and 1B1-Mediated Activation of Procarcinogens to Genotoxic Metabolites by Polycyclic Aromatic Hydrocarbons. Chemical Research in Toxicology, 2006, 19, 288-294.	1.7	169
63	Enzymic oxidation of ethyl carbamate to vinyl carbamate and its role as an intermediate in the formation of 1,N6-ethenoadenosine. Chemical Research in Toxicology, 1991, 4, 413-421.	1.7	159
64	Lack of Electron Transfer from Cytochrome b5 in Stimulation of Catalytic Activities of Cytochrome P450 3A4. Journal of Biological Chemistry, 1996, 271, 27438-27444.	1.6	159
65	Evidence for a 1-Electron Oxidation Mechanism in N-Dealkylation of N,N-Dialkylanilines by Cytochrome P450 2B1. Journal of Biological Chemistry, 1996, 271, 27321-27329.	1.6	155
66	Mechanism of cytochrome P-450 inhibition by cyclopropylamines. Journal of the American Chemical Society, 1982, 104, 2050-2052.	6.6	151
67	Metabolism of Benzo[a]pyrene to trans-7,8-Dihydroxy-7,8-dihydrobenzo[a]pyrene by Recombinant Human Cytochrome P450 1B1 and Purified Liver Epoxide Hydrolase. Chemical Research in Toxicology, 1999, 12, 623-629.	1.7	151
68	Development of a pharmacophore for inhibition of human liver cytochrome P-450 2D6: molecular modeling and inhibition studies. Journal of Medicinal Chemistry, 1993, 36, 1136-1145.	2.9	147
69	Destruction of heme and hemoproteins mediated by liver microsomal reduced nicotinamide adenine dinucleotide phosphate-cytochrome P-450 reductase. Biochemistry, 1978, 17, 3633-3639.	1.2	146
70	The Role of Oxysterols in Human Cancer. Trends in Endocrinology and Metabolism, 2017, 28, 485-496.	3.1	145
71	Expression of cytochromes P450 1A1 and 1B1 in human lung from smokers, non-smokers, and ex-smokers. Toxicology and Applied Pharmacology, 2004, 199, 210-219.	1.3	142
72	Binding of Two Flaviolin Substrate Molecules, Oxidative Coupling, and Crystal Structure of Streptomyces coelicolor A3(2) Cytochrome P450 158A2. Journal of Biological Chemistry, 2005, 280, 11599-11607.	1.6	142

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73	Expression of cytochrome P-450 enzymes in cultured human hepatocytes. FEBS Journal, 1990, 191, 437-444.	0.2	140
74	DNA Adduct Bypass Polymerization by Sulfolobus solfataricus DNA Polymerase Dpo4. Journal of Biological Chemistry, 2005, 280, 29750-29764.	1.6	138
75	Roles of Divalent Metal Ions in Oxidations Catalyzed by Recombinant Cytochrome P450 3A4 and Replacement of NADPH-Cytochrome P450 Reductase with Other Flavoproteins, Ferredoxin, and Oxygen Surrogates. Biochemistry, 1995, 34, 8380-8389.	1.2	137
76	Cytochrome P450 enzymes in drug metabolism and chemical toxicology: An introduction. Biochemistry and Molecular Biology Education, 2006, 34, 66-74.	0.5	136
77	Oxidation of substituted N,N-dimethylanilines by cytochrome P-450: estimation of the effective oxidation-reduction potential of cytochrome P-450. Biochemistry, 1989, 28, 2071-2077.	1.2	135
78	Rate-Determining Steps in Phenacetin Oxidations by Human Cytochrome P450 1A2 and Selected Mutants. Biochemistry, 2000, 39, 11319-11329.	1.2	135
79	Cytochrome P450 1B1: a target for inhibition in anticarcinogenesis strategies. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2003, 523-524, 173-182.	0.4	135
80	Cyp27c1 Red-Shifts the Spectral Sensitivity of Photoreceptors by Converting Vitamin A1 into A2. Current Biology, 2015, 25, 3048-3057.	1.8	135
81	Characterization of the enzymic and nonenzymic peroxidative degradation of iron porphyrins and cytochrome P-450 heme. Biochemistry, 1985, 24, 3254-3263.	1.2	134
82	Kinetics and Thermodynamics of Ligand Binding by Cytochrome P450 3A4*. Journal of Biological Chemistry, 2006, 281, 9127-9136.	1.6	132
83	Engineering cytochrome P450 enzyme systems for biomedical and biotechnological applications. Journal of Biological Chemistry, 2020, 295, 833-849.	1.6	132
84	Translesion Synthesis across Bulky N2-Alkyl Guanine DNA Adducts by Human DNA Polymerase Î¹. Journal of Biological Chemistry, 2006, 281, 21062-21072.	1.6	131
85	Spectral intermediates in the reaction of oxygen with purified liver microsomal cytochrome P-450. Biochemical and Biophysical Research Communications, 1976, 70, 951-956.	1.0	127
86	Activation of vinyl chloride to covalently bound metabolites: roles of 2-chloroethylene oxide and 2-chloroacetaldehyde. Biochemistry, 1979, 18, 5177-5182.	1.2	126
87	S-[2-(N7-guanyl)ethyl]glutathione, the major DNA adduct formed from 1,2-dibromoethane. Biochemistry, 1986, 25, 2192-2198.	1.2	123
88	Kinetics of Cytochrome P450 2E1-Catalyzed Oxidation of Ethanol to Acetic Acid via Acetaldehyde. Journal of Biological Chemistry, 1999, 274, 23833-23840.	1.6	123
89	Olefin oxidation by cytochrome P-450: evidence for group migration in catalytic intermediates formed with vinylidene chloride and trans-1-phenyl-1-butene. Biochemistry, 1983, 22, 5482-5489.	1.2	122
90	Function of human cytochrome P450s: Characterization of the orphans. Biochemical and Biophysical Research Communications, 2005, 338, 465-469.	1.0	122

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91	Translesion Synthesis across O6-Alkylguanine DNA Adducts by Recombinant Human DNA Polymerases*. Journal of Biological Chemistry, 2006, 281, 38244-38256.	1.6	122
92	Cytochromes P450 and drug discovery. Current Opinion in Biotechnology, 2007, 18, 504-512.	3.3	122
93	Fidelity of Nucleotide Insertion at 8-Oxo-7,8-dihydroguanine by Mammalian DNA Polymerase Î´. Journal of Biological Chemistry, 2001, 276, 3764-3771.	1.6	121
94	Structure-Functional Characterization of Cytochrome P450 Sterol 14Î±-Demethylase (CYP51B) from Aspergillus fumigatus and Molecular Basis for the Development of Antifungal Drugs. Journal of Biological Chemistry, 2015, 290, 23916-23934.	1.6	121
95	Efficient and High Fidelity Incorporation of dCTP Opposite 7,8-Dihydro-8-oxodeoxyguanosine by Sulfolobus solfataricus DNA Polymerase Dpo4. Journal of Biological Chemistry, 2006, 281, 2358-2372.	1.6	118
96	Human Cytochrome P450 Enzymes. , 2015, , 523-785.		117
97	Oxidation of aflatoxins and sterigmatocystin by human liver microsomes: significance of aflatoxin Q1 as a detoxication product of aflatoxin B1. Chemical Research in Toxicology, 1992, 5, 202-210.	1.7	115
98	Structureâ^'Function Relationships of Inhibition of Human Cytochromes P450 1A1, 1A2, 1B1, 2C9, and 3A4 by 33 Flavonoid Derivatives. Chemical Research in Toxicology, 2010, 23, 1921-1935.	1.7	115
99	Intralobular distribution and quantitation of cytochrome P-450 enzymes in human liver as a function of age. Hepatology, 1991, 13, 1142-1151.	3.6	112
100	Analysis of Nucleotide Insertion and Extension at 8-Oxo-7,8-dihydroguanine by Replicative T7 Polymerase exo-and Human Immunodeficiency Virus-1 Reverse Transcriptase Using Steady-State and Pre-Steady-State Kineticsâ€. Biochemistry, 1997, 36, 6475-6487.	1.2	112
101	Selection and Characterization of Human Cytochrome P450 1A2 Mutants with Altered Catalytic Propertiesâ€. Biochemistry, 1999, 38, 5283-5289.	1.2	112
102	Intersection of the Roles of Cytochrome P450 Enzymes with Xenobiotic and Endogenous Substrates: Relevance to Toxicity and Drug Interactions. Chemical Research in Toxicology, 2017, 30, 2-12.	1.7	106
103	Translesion Synthesis across Abasic Lesions by Human B-Family and Y-Family DNA Polymerases Î±, Î´, Î·, Î¹, Îº, and REV1. Journal of Molecular Biology, 2010, 404, 34-44.	2.0	105
104	Substrate binding to cytochromes P450. Analytical and Bioanalytical Chemistry, 2008, 392, 1019-1030.	1.9	104
105	Update Information on Drug Metabolism Systems— 2009, Part II. Summary of Information on the Effects of Diseases and Environmental Factors on Human Cytochrome P450 (CYP) Enzymes and Transporters. Current Drug Metabolism, 2010, 11, 4-84.	0.7	104
106	Mechanism of cytochrome P-450 catalysis. Mechanism of N-dealkylation and amine oxide deoxygenation. Journal of the American Chemical Society, 1985, 107, 2549-2551.	6.6	103
107	Steady-State and Pre-Steady-State Kinetic Analysis of 8-Oxo-7,8-dihydroguanosine Triphosphate Incorporation and Extension by Replicative and Repair DNA Polymerasesâ€. Biochemistry, 1998, 37, 13300-13312.	1.2	100
108	Interactions of Carcinogen-Bound DNA with Individual DNA Polymerases. Chemical Reviews, 2006, 106, 420-452.	23.0	100

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109	Kinetics and Mechanism of Hydrolysis of Aflatoxin B1 exo-8,9-Epoxide and Rearrangement of the Dihydrodiol. Journal of the American Chemical Society, 1996, 118, 8213-8220.	6.6	98
110	Oxidation Kinetics of Ethanol by Human Cytochrome P450 2E1. Journal of Biological Chemistry, 1997, 272, 29643-29651.	1.6	97
111	Recombinant Enzymes Overexpressed in Bacteria Show Broad Catalytic Specificity of Human Cytochrome P450 2W1 and Limited Activity of Human Cytochrome P450 2S1. Molecular Pharmacology, 2006, 69, 2007-2014.	1.0	96
112	Immunoquantification of epoxide hydrolase and cytochrome P-450 isozymes in fetal and adult human liver microsomes. FEBS Journal, 1985, 151, 345-350.	0.2	95
113	Evidence for an episulfonium ion intermediate in the formation of S-[2-(N7-guanyl)ethyl]glutathione in DNA. Journal of the American Chemical Society, 1988, 110, 3284-3291.	6.6	95
114	DIFFERENT IN VITRO METABOLISM OF PACLITAXEL AND DOCETAXEL IN HUMANS, RATS, PIGS, AND MINIPIGS. Drug Metabolism and Disposition, 2004, 32, 666-674.	1.7	95
115	Mitochondria-targeted Cytochrome P450 2E1 Induces Oxidative Damage and Augments Alcohol-mediated Oxidative Stress. Journal of Biological Chemistry, 2010, 285, 24609-24619.	1.6	95
116	Steady-State and Pre-Steady-State Kinetic Analysis of dNTP Insertion Opposite 8-Oxo-7,8-dihydroguanine by Escherichia coli Polymerases I exo- and II exo-. Biochemistry, 1996, 35, 9840-9849.	1.2	94
117	New Applications of Bacterial Systems to Problems in Toxicology. Critical Reviews in Toxicology, 1996, 26, 551-583.	1.9	94
118	Stimulation of Cytochrome P450 Reactions by Apo-cytochromeb 5. Journal of Biological Chemistry, 2001, 276, 30885-30891.	1.6	94
119	Purification of human liver cytosolic epoxide hydrolase and comparison to the microsomal enzyme. Biochemistry, 1982, 21, 5769-5776.	1.2	93
120	Conversion of 7-Dehydrocholesterol to 7-Ketocholesterol Is Catalyzed by Human Cytochrome P450 7A1 and Occurs by Direct Oxidation without an Epoxide Intermediate. Journal of Biological Chemistry, 2011, 286, 33021-33028.	1.6	93
121	Roles of the vinyl chloride oxidation products 2-chlorooxirane and 2-chloroacetaldehyde in the in vitro formation of etheno adducts of nucleic acid bases. Chemical Research in Toxicology, 1992, 5, 2-5.	1.7	92
122	1,N 2-Ethenoguanine, a Mutagenic DNA Adduct, Is a Primary Substrate of Escherichia coliMismatch-specific Uracil-DNA Glycosylase and Human Alkylpurine-DNA-N-Glycosylase. Journal of Biological Chemistry, 2002, 277, 26987-26993.	1.6	92
123	The endo-8,9-epoxide of aflatoxin B1: a new metabolite. Chemical Research in Toxicology, 1992, 5, 333-335.	1.7	91
124	Mechanism of the Third Oxidative Step in the Conversion of Androgens to Estrogens by Cytochrome P450 19A1 Steroid Aromatase. Journal of the American Chemical Society, 2014, 136, 15016-15025.	6.6	90
125	Selection of Human Cytochrome P450 1A2 Mutants with Enhanced Catalytic Activity for Heterocyclic Amine N-Hydroxylation. Biochemistry, 2004, 43, 981-988.	1.2	89
126	Adduct Size Limits Efficient and Error-free Bypass Across Bulky N2-Guanine DNA Lesions by Human DNA Polymerase Î·. Journal of Molecular Biology, 2005, 352, 72-90.	2.0	88

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127	Kinetic Analysis of Oxidation of Coumarins by Human Cytochrome P450 2A6. Journal of Biological Chemistry, 2005, 280, 12279-12291.	1.6	87
128	Engineering cytochrome P450 enzyme systems for biomedical and biotechnological applications. Journal of Biological Chemistry, 2020, 295, 833-849.	1.6	87
129	Mechanism-based inactivation of cytochrome P-450 by heteroatom-substituted cyclopropanes and formation of ring-opened products. Journal of the American Chemical Society, 1984, 106, 6446-6447.	6.6	86
130	Role of cytochrome P450IIIA4 in the metabolism of the pyrrolizidine alkaloid senecionine in human liver. Carcinogenesis, 1991, 12, 515-519.	1.3	86
131	Human-liver cytochromes P-450 expressed in yeast as tools for reactive-metabolite formation studies. Oxidative activation of tienilic acid by cytochromes P-450 2C9 and 2C10. FEBS Journal, 1993, 213, 223-232.	0.2	86
132	Cytochrome P450 3A4-catalyzed Testosterone 6Î²-Hydroxylation Stereochemistry, Kinetic Deuterium Isotope Effects, and Rate-limiting Steps. Journal of Biological Chemistry, 2005, 280, 19496-19506.	1.6	85
133	Orphans in the Human Cytochrome P450 Superfamily: Approaches to Discovering Functions and Relevance in Pharmacology. Pharmacological Reviews, 2011, 63, 684-699.	7.1	85
134	Rate-Limiting Steps in Oxidations Catalyzed by Rabbit Cytochrome P450 1A2. Biochemistry, 2004, 43, 10775-10788.	1.2	84
135	â€œPhase I and Phase IIâ€•Drug Metabolism: Terminology that we Should Phase Out?. Drug Metabolism Reviews, 2005, 37, 575-580.	1.5	83
136	Kinetics, Structure, and Mechanism of 8-Oxo-7,8-dihydro-2â€²-deoxyguanosine Bypass by Human DNA Polymerase Î·. Journal of Biological Chemistry, 2014, 289, 16867-16882.	1.6	81
137	Kinetic Analysis of the Three-step Steroid Aromatase Reaction of Human Cytochrome P450 19A1. Journal of Biological Chemistry, 2010, 285, 17734-17743.	1.6	80
138	Conjugation of Highly Reactive Aflatoxin B1exo-8,9-Epoxide Catalyzed by Rat and Human Glutathione Transferases:Â Estimation of Kinetic Parametersâ€. Biochemistry, 1997, 36, 3056-3060.	1.2	79
139	Aryl hydrocarbon receptor response to indigoids in vitro and in vivo. Archives of Biochemistry and Biophysics, 2004, 423, 309-316.	1.4	79
140	Sulfolobus solfataricus DNA Polymerase Dpo4 Is Partially Inhibited by â€œWobbleâ€•Pairing between O6-Methylguanine and Cytosine, but Accurate Bypass Is Preferred. Journal of Biological Chemistry, 2007, 282, 1456-1467.	1.6	79
141	Cytochrome P-450 isozyme/isozyme functional interactions and NADPH-cytochrome P-450 reductase concentrations as factors in microsomal metabolism of warfarin. FEBS Journal, 1985, 149, 479-489.	0.2	78
142	Structural and Functional Elucidation of the Mechanism Promoting Error-prone Synthesis by Human DNA Polymerase Îº Opposite the 7,8-Dihydro-8-oxo-2â€²-deoxyguanosine Adduct. Journal of Biological Chemistry, 2009, 284, 22467-22480.	1.6	78
143	Inhibition of oral contraceptive steroidâ€”metabolizing enzymes by steroids and drugs. American Journal of Obstetrics and Gynecology, 1990, 163, 2159-2163.	0.7	77
144	In Vitro techniques for studying drug metabolism. Journal of Pharmacokinetics and Pharmacodynamics, 1996, 24, 521-533.	0.6	76

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145	Role of Active Site Water Molecules and Substrate Hydroxyl Groups in Oxygen Activation by Cytochrome P450 158A2. Journal of Biological Chemistry, 2005, 280, 42188-42197.	1.6	75
146	Development of Oxidative Stress by Cytochrome P450 Induction in Rodents Is Selective for Barbiturates and Related to Loss of Pyridine Nucleotide-dependent Protective Systems. Journal of Biological Chemistry, 2008, 283, 17147-17157.	1.6	75
147	Human Cytochrome P450 21A2, the Major Steroid 21-Hydroxylase. Journal of Biological Chemistry, 2015, 290, 13128-13143.	1.6	74
148	Generation of New Protein Kinase Inhibitors Utilizing Cytochrome P450 Mutant Enzymes for Indigoid Synthesis. Journal of Medicinal Chemistry, 2004, 47, 3236-3241.	2.9	73
149	Electron Transport Pathway for a Streptomyces Cytochrome P450. Journal of Biological Chemistry, 2007, 282, 17486-17500.	1.6	73
150	Three-dimensional Structure of Steroid 21-Hydroxylase (Cytochrome P450 21A2) with Two Substrates Reveals Locations of Disease-associated Variants. Journal of Biological Chemistry, 2012, 287, 10613-10622.	1.6	73
151	Metabolism of heterocyclic aromatic amines by human hepatocytes and cytochrome P4501A2. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2002, 506-507, 187-195.	0.4	72
152	Kinetic Evidence for Inefficient and Error-prone Bypass across Bulky N-Guanine DNA Adducts by Human DNA Polymerase Î¹*. Journal of Biological Chemistry, 2006, 281, 12315-12324.	1.6	72
153	Multiple Sequential Steps Involved in the Binding of Inhibitors to Cytochrome P450 3A4. Journal of Biological Chemistry, 2007, 282, 6863-6874.	1.6	72
154	Cytochrome P450-Dependent Catabolism of Vitamin K: Ï‰-Hydroxylation Catalyzed by Human CYP4F2 and CYP4F11. Biochemistry, 2013, 52, 8276-8285.	1.2	72
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