Luet Lok Wong

List of Publications by Year
in descending order

50 papers	3,385 citations	159585 30 h-index	197818 49 g-index
54 all docs	54 docs citations	54 times ranked	2472 citing authors

#	Article	IF	Citations
1	P450_{BM3}(CYP102A1): connecting the dots. Chemical Society Reviews, 2012, 41, 1218-1260.	38.1	576
2	Carbon-Hydrogen-Transition Metal Bonds. Progress in Inorganic Chemistry, 0, , 1-124.	3.0	457
3	Protein engineering ofBacillus megateriumCYP102. FEBS Journal, 2001, 268, 3117-3125.	0.2	210
4	Biotransformation of the sesquiterpene (+)-valencene by cytochrome P450cam and P450BM-3. Organic and Biomolecular Chemistry, 2005, 3, 57.	2.8	158
5	An electron transfer path connects subunits of a mycobacterial respiratory supercomplex. Science, 2018, 362, .	12.6	117
6	Protein engineering of cytochrome P450cam (CYP101) for the oxidation of polycyclic aromatic hydrocarbons. Protein Engineering, Design and Selection, 2000, 13, 121-128.	2.1	115
7	Oxidation of polychlorinated benzenes by genetically engineered CYP101 (cytochrome P450cam). FEBS Journal, 2001, 268, 1460-1467.	0.2	99
8	Evolved CYP102A1 (P450BM3) variants oxidise a range of non-natural substrates and offer new selectivity options. Chemical Communications, 2008, , 966.	4.1	98
9	Cytochrome P450 monooxygenases. Current Opinion in Chemical Biology, 1998, 2, 263-268.	6.1	86
10	The oxidation of naphthalene and pyrene by cytochrome P450cam. FEBS Letters, 1998, 424, 271-274.	2.8	75
11	Molecular Characterization of a Class I P450 Electron Transfer System from Novosphingobium aromaticivorans DSM12444. Journal of Biological Chemistry, 2010, 285, 27372-27384.	3.4	74
12	A Highly Active Singleâ€Mutation Variant of P450_{BM3} (CYP102A1). ChemBioChem, 2009, 10, 1654-1656.	2.6	72
13	Drug Oxidation by Cytochrome P450_{BM3}: Metabolite Synthesis and Discovering New P450 Reaction Types. Chemistry - A European Journal, 2015, 21, 15039-15047.	3.3	72
14	The catalytic activity of cytochrome P450cam towards styrene oxidation is increased by site-specific mutagenesis. FEBS Letters, 1997, 405, 153-156.	2.8	68
15	Selective oxidative demethylation of veratric acid to vanillic acid by CYP199A4 from Rhodopseudomonas palustris HaA2. Molecular BioSystems, 2009, 6, 206-214.	2.9	63
16	Structural Basis for the Properties of Two Singleâ€Site Proline Mutants of CYP102A1 (P450_{BM3}). ChemBioChem, 2010, 11, 2549-2556.	2.6	63
17	The thermodynamics and kinetics of electron transfer in the cytochrome P450camenzyme system. FEBS Letters, 1999, 451, 351-353.	2.8	61
18	Surface-modified mutants of cytochrome P450cam: enzymatic properties and electrochemistry. FEBS Letters, 1999, 451, 342-346.	2.8	59

#	Article	IF	Citations
19	Crystal Structure of CYP199A2, a Para-Substituted Benzoic Acid Oxidizing Cytochrome P450 from Rhodopseudomonas palustris. Journal of Molecular Biology, 2008, 383, 561-574.	4.2	55
20	Investigation of the Substrate Range of CYP199A4: Modification of the Partition between Hydroxylation and Desaturation Activities by Substrate and Protein Engineering. Chemistry - A European Journal, 2012, 18, 16677-16688.	3.3	53
21	Engineering the haem monooxygenase cytochrome P450cam for monoterpene oxidation. Chemical Communications, 2001, , 635-636.	4.1	52
22	Engineering cytochrome P450cam into an alkane hydroxylase. Dalton Transactions, 2003, , 2133.	3.3	48
23	The crystal structures of 4-methoxybenzoate bound CYP199A2 and CYP199A4: structural changes on substrate binding and the identification of an anion binding site. Dalton Transactions, 2012, 41, 8703.	3.3	48
24	A scanning tunnelling study of immobilised cytochrome P450cam. Faraday Discussions, 2000, 116, 15-22.	3.2	45
25	Desaturation of Alkylbenzenes by Cytochrome P450_{BM3} (CYP102A1). Chemistry - A European Journal, 2008, 14, 10905-10908.	3.3	45
26	Structure, electronic properties and catalytic behaviour of an activity-enhancing CYP102A1 (P450BM3) variant. Dalton Transactions, 2011, 40, 10383.	3.3	40
27	Synthesis of Imidazolidin-4-ones via a Cytochrome P450-Catalyzed Intramolecular Câ€“H Amination. ACS Catalysis, 2016, 6, 6833-6837.	11.2	38
28	Oxidative Diversification of Steroids by Nature-Inspired Scanning Glycine Mutagenesis of P450BM3 (CYP102A1). ACS Catalysis, 2020, 10, 8334-8343.	11.2	37
29	The structure of CYP101D2 unveils a potential path for substrate entry into the active site. Biochemical Journal, 2011, 433, 85-93.	3.7	36
30	Multiâ€Functional Oxidase Activity of CYP102A1 (P450BM3) in the Oxidation of Quinolines and Tetrahydroquinolines. Angewandte Chemie - International Edition, 2019, 58, 9551-9555.	13.8	35
31	Improved oxidation of aromatic and aliphatic hydrocarbons using rate enhancing variants of P450Bm3 in combination with decoy molecules. Chemical Communications, 2016, 52, 1036-1039.	4.1	33
32	Tailoring an alien ferredoxin to support native-like P450 monooxygenase activity. Chemical Communications, 2012, 48, 11692.	4.1	30
33	Mutations of glutamate-84 at the putative potassium-binding site affect camphor binding and oxidation by cytochrome P450cam. FEBS Journal, 2001, 265, 929-935.	0.2	29
34	Catalytic reductive dehalogenation of hexachloroethane by molecular variants of cytochrome P450cam(CYP101). FEBS Journal, 2000, 267, 5815-5820.	0.2	25
35	A Structural Model of a P450-Ferredoxin Complex from Orientation-Selective Double Electronâ€“Electron Resonance Spectroscopy. Journal of the American Chemical Society, 2018, 140, 2514-2527.	13.7	22
36	Cryo-EM structure of trimeric Mycobacterium smegmatis succinate dehydrogenase with a membrane-anchor SdhF. Nature Communications, 2020, 11, 4245.	12.8	20

#	Article	IF	Citations
37	Biophysical Techniques for Distinguishing Ligand Binding Modes in Cytochrome P450 Monooxygenases. Biochemistry, 2020, 59, 1038-1050.	2.5	20
38	Hydroxylation of anilides by engineered cytochrome P450_{BM3}. Organic and Biomolecular Chemistry, 2017, 15, 8780-8787.	2.8	17
39	Multiâ€Functional Oxidase Activity of CYP102A1 (P450BM3) in the Oxidation of Quinolines and Tetrahydroquinolines. Angewandte Chemie, 2019, 131, 9651-9655.	2.0	14
40	P450_{BM3} on Steroids: The Swiss Army Knife P450 Enzyme Just Gets Better. ChemBioChem, 2011, 12, 2537-2539.	2.6	13
41	Hydroxylation of Eleuthoside Synthetic Intermediates by P450_{BM3} (CYP102A1). European Journal of Organic Chemistry, 2018, 2018, 6369-6378.	2.4	12
42	Enzymatic Kinetic Resolution by Addition of Oxygen. Angewandte Chemie - International Edition, 2021, 60, 4434-4447.	13.8	11
43	Dihydrogenâ€Driven NADPH Recycling in Imine Reduction and P450â€Catalyzed Oxidations Mediated by an Engineered O₂â€Tolerant Hydrogenase. ChemCatChem, 2020, 12, 4853-4861.	3.7	10
44	Partial fusion of a cytochrome P450 system by carboxy-terminal attachment of putidaredoxin reductase to P450cam (CYP101A1). Catalysis Science and Technology, 2016, 6, 7549-7560.	4.1	9
45	The oxidation of polychlorinated benzenes by genetically engineered cytochrome P450cam: potential applications in bioremediation. Chemical Communications, 2000, , 247-248.	4.1	8
46	The structure of a novel electron-transfer ferredoxin fromRhodopseudomonas palustrisHaA2 which contains a histidine residue in its ironâ€“sulfur cluster-binding motif. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 1453-1464.	2.5	8
47	Direct electrochemistry of pentachlorophenol hydroxylase. Chemical Communications, 2001, , 2370-2371.	4.1	7
48	Mutations of phenylalanine-193 in the putative substrate access channel alter the substrate specificity of cytochrome P450cam. Israel Journal of Chemistry, 2000, 40, 55-62.	2.3	6
49	Design and Engineering of Cytochrome P450 Systems. , 2007, , 437-476.		3
50	Enzymatic Kinetic Resolution by Addition of Oxygen. Angewandte Chemie, 2021, 133, 4482-4495.	2.0	0