

Luet Lok Wong

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52
papers

2,763
citations

28
h-index

52
g-index

54
ext. papers

3,036
ext. citations

7.8
avg, IF

4.99
L-index

#	Paper	IF	Citations
52	P450(BM3) (CYP102A1): connecting the dots. <i>Chemical Society Reviews</i> , 2012 , 41, 1218-60	58.5	475
51	Carbon-Hydrogen-Transition Metal Bonds. <i>Progress in Inorganic Chemistry</i> , 1-124		362
50	Protein engineering of Bacillus megaterium CYP102. The oxidation of polycyclic aromatic hydrocarbons. <i>FEBS Journal</i> , 2001 , 268, 3117-25		192
49	Biotransformation of the sesquiterpene (+)-valencene by cytochrome P450cam and P450BM-3. <i>Organic and Biomolecular Chemistry</i> , 2005 , 3, 57-64	3.9	141
48	Protein engineering of cytochrome p450(cam) (CYP101) for the oxidation of polycyclic aromatic hydrocarbons. <i>Protein Engineering, Design and Selection</i> , 2000 , 13, 121-8	1.9	105
47	Evolved CYP102A1 (P450BM3) variants oxidise a range of non-natural substrates and offer new selectivity options. <i>Chemical Communications</i> , 2008 , 966-8	5.8	93
46	Oxidation of polychlorinated benzenes by genetically engineered CYP101 (cytochrome P450(cam)). <i>FEBS Journal</i> , 2001 , 268, 1460-7		86
45	Cytochrome P450 monooxygenases. <i>Current Opinion in Chemical Biology</i> , 1998 , 2, 263-8	9.7	76
44	An electron transfer path connects subunits of a mycobacterial respiratory supercomplex. <i>Science</i> , 2018 , 362,	33.3	76
43	A highly active single-mutation variant of P450BM3 (CYP102A1). <i>ChemBioChem</i> , 2009 , 10, 1654-6	3.8	68
42	Molecular characterization of a class I P450 electron transfer system from <i>Novosphingobium aromaticivorans</i> DSM12444. <i>Journal of Biological Chemistry</i> , 2010 , 285, 27372-27384	5.4	64
41	The oxidation of naphthalene and pyrene by cytochrome P450cam. <i>FEBS Letters</i> , 1998 , 424, 271-4	3.8	62
40	The catalytic activity of cytochrome P450cam towards styrene oxidation is increased by site-specific mutagenesis. <i>FEBS Letters</i> , 1997 , 405, 153-6	3.8	57
39	Drug Oxidation by Cytochrome P450BM3 : Metabolite Synthesis and Discovering New P450 Reaction Types. <i>Chemistry - A European Journal</i> , 2015 , 21, 15039-47	4.8	55
38	Structural basis for the properties of two single-site proline mutants of CYP102A1 (P450BM3). <i>ChemBioChem</i> , 2010 , 11, 2549-56	3.8	54
37	The thermodynamics and kinetics of electron transfer in the cytochrome P450cam enzyme system. <i>FEBS Letters</i> , 1999 , 451, 351-3	3.8	52
36	Crystal structure of CYP199A2, a para-substituted benzoic acid oxidizing cytochrome P450 from <i>Rhodospseudomonas palustris</i> . <i>Journal of Molecular Biology</i> , 2008 , 383, 561-74	6.5	49

35	Selective oxidative demethylation of veratric acid to vanillic acid by CYP199A4 from <i>Rhodopseudomonas palustris</i> HaA2. <i>Molecular BioSystems</i> , 2010 , 6, 206-14		46
34	Engineering the haem monooxygenase cytochrome P450cam for monoterpene oxidation. <i>Chemical Communications</i> , 2001 , 635-636	5.8	45
33	Surface-modified mutants of cytochrome P450cam: enzymatic properties and electrochemistry. <i>FEBS Letters</i> , 1999 , 451, 342-6	3.8	45
32	Desaturation of alkylbenzenes by cytochrome P450(BM3) (CYP102A1). <i>Chemistry - A European Journal</i> , 2008 , 14, 10905-8	4.8	42
31	A scanning tunnelling study of immobilised cytochrome P450cam. <i>Faraday Discussions</i> , 2000 , 15-22; discussion 67-75	3.6	42
30	Engineering cytochrome P450cam into an alkane hydroxylase. <i>Dalton Transactions</i> , 2003 , 2133	4.3	39
29	Investigation of the substrate range of CYP199A4: modification of the partition between hydroxylation and desaturation activities by substrate and protein engineering. <i>Chemistry - A European Journal</i> , 2012 , 18, 16677-88	4.8	36
28	Structure, electronic properties and catalytic behaviour of an activity-enhancing CYP102A1 (P450(BM3)) variant. <i>Dalton Transactions</i> , 2011 , 40, 10383-96	4.3	35
27	The crystal structures of 4-methoxybenzoate bound CYP199A2 and CYP199A4: structural changes on substrate binding and the identification of an anion binding site. <i>Dalton Transactions</i> , 2012 , 41, 8703-14	4.2	33
26	The structure of CYP101D2 unveils a potential path for substrate entry into the active site. <i>Biochemical Journal</i> , 2011 , 433, 85-93	3.8	33
25	Improved oxidation of aromatic and aliphatic hydrocarbons using rate enhancing variants of P450Bm3 in combination with decoy molecules. <i>Chemical Communications</i> , 2016 , 52, 1036-9	5.8	28
24	Synthesis of Imidazolidin-4-ones via a Cytochrome P450-Catalyzed Intramolecular C _H Amination. <i>ACS Catalysis</i> , 2016 , 6, 6833-6837	13.1	28
23	Tailoring an alien ferredoxin to support native-like P450 monooxygenase activity. <i>Chemical Communications</i> , 2012 , 48, 11692-4	5.8	27
22	Mutations of glutamate-84 at the putative potassium-binding site affect camphor binding and oxidation by cytochrome p450cam. <i>FEBS Journal</i> , 1999 , 265, 929-35		26
21	The Heme Monooxygenase Cytochrome P450cam Can Be Engineered to Oxidize Ethane to Ethanol. <i>Angewandte Chemie</i> , 2005 , 117, 4097-4100	3.6	23
20	Catalytic reductive dehalogenation of hexachloroethane by molecular variants of cytochrome P450cam (CYP101). <i>FEBS Journal</i> , 2000 , 267, 5815-20		22
19	Multi-Functional Oxidase Activity of CYP102A1 (P450BM3) in the Oxidation of Quinolines and Tetrahydroquinolines. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 9551-9555	16.4	20
18	A Structural Model of a P450-Ferredoxin Complex From Orientation-Selective Double Electron-Electron Resonance Spectroscopy. <i>Journal of the American Chemical Society</i> , 2018 , 140, 2514-2527	16.4	17

17	Oxidative Diversification of Steroids by Nature-Inspired Scanning Glycine Mutagenesis of P450BM3 (CYP102A1). <i>ACS Catalysis</i> , 2020 , 10, 8334-8343	13.1	15
16	P450(BM3) on steroids: the Swiss Army knife P450 enzyme just gets better. <i>ChemBioChem</i> , 2011 , 12, 2537-9	3.8	11
15	Hydroxylation of anilides by engineered cytochrome P450. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 8780-8787	3.9	10
14	Hydroxylation of Eleuthoside Synthetic Intermediates by P450BM3 (CYP102A1). <i>European Journal of Organic Chemistry</i> , 2018 , 2018, 6369-6378	3.2	8
13	Direct electrochemistry of pentachlorophenol hydroxylase. <i>Chemical Communications</i> , 2001 , 2370-2371	5.8	7
12	Dihydrogen-Driven NADPH Recycling in Imine Reduction and P450-Catalyzed Oxidations Mediated by an Engineered O ₂ -Tolerant Hydrogenase. <i>ChemCatChem</i> , 2020 , 12, 4853-4861	5.2	6
11	Biophysical Techniques for Distinguishing Ligand Binding Modes in Cytochrome P450 Monooxygenases. <i>Biochemistry</i> , 2020 , 59, 1038-1050	3.2	6
10	The structure of a novel electron-transfer ferredoxin from <i>Rhodospseudomonas palustris</i> HaA2 which contains a histidine residue in its iron-sulfur cluster-binding motif. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014 , 70, 1453-64		6
9	Mutations of phenylalanine-193 in the putative substrate access channel alter the substrate specificity of cytochrome P450cam. <i>Israel Journal of Chemistry</i> , 2000 , 40, 55-62	3.4	6
8	Cryo-EM structure of trimeric <i>Mycobacterium smegmatis</i> succinate dehydrogenase with a membrane-anchor SdhF. <i>Nature Communications</i> , 2020 , 11, 4245	17.4	6
7	Enzymatic Kinetic Resolution by Addition of Oxygen. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 4434-4447	16.4	6
6	Multi-Functional Oxidase Activity of CYP102A1 (P450BM3) in the Oxidation of Quinolines and Tetrahydroquinolines. <i>Angewandte Chemie</i> , 2019 , 131, 9651-9655	3.6	5
5	The Bacterial Cytochrome P450 Monooxygenases: P450cam and P450BM-399-122		5
4	The oxidation of polychlorinated benzenes by genetically engineered cytochrome P450cam: potential applications in bioremediation. <i>Chemical Communications</i> , 2000 , 247-248	5.8	5
3	Partial fusion of a cytochrome P450 system by carboxy-terminal attachment of putidaredoxin reductase to P450cam (CYP101A1). <i>Catalysis Science and Technology</i> , 2016 , 6, 7549-7560	5.5	3
2	Design and Engineering of Cytochrome P450 Systems		3
1	Enzymatic Kinetic Resolution by Addition of Oxygen. <i>Angewandte Chemie</i> , 2021 , 133, 4482-4495	3.6	