

# Luet Lok Wong

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9515083/publications.pdf>

Version: 2024-02-01

50  
papers

3,385  
citations

159525

30  
h-index

197736

49  
g-index

54  
all docs

54  
docs citations

54  
times ranked

2472  
citing authors

#	ARTICLE	IF	CITATIONS
1	P450 <sub>BM3</sub> (CYP102A1): connecting the dots. <i>Chemical Society Reviews</i> , 2012, 41, 1218-1260.	18.7	576
2	Carbon-Hydrogen-Transition Metal Bonds. <i>Progress in Inorganic Chemistry</i> , 0, , 1-124.	3.0	457
3	Protein engineering of <i>Bacillus megaterium</i> CYP102. <i>FEBS Journal</i> , 2001, 268, 3117-3125.	0.2	210
4	Biotransformation of the sesquiterpene (+)-valencene by cytochrome P450cam and P450BM-3. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 57.	1.5	158
5	An electron transfer path connects subunits of a mycobacterial respiratory supercomplex. <i>Science</i> , 2018, 362, .	6.0	117
6	Protein engineering of cytochrome P450cam (CYP101) for the oxidation of polycyclic aromatic hydrocarbons. <i>Protein Engineering, Design and Selection</i> , 2000, 13, 121-128.	1.0	115
7	Oxidation of polychlorinated benzenes by genetically engineered CYP101 (cytochrome P450cam). <i>FEBS Journal</i> , 2001, 268, 1460-1467.	0.2	99
8	Evolved CYP102A1 (P450BM3) variants oxidise a range of non-natural substrates and offer new selectivity options. <i>Chemical Communications</i> , 2008, , 966.	2.2	98
9	Cytochrome P450 monooxygenases. <i>Current Opinion in Chemical Biology</i> , 1998, 2, 263-268.	2.8	86
10	The oxidation of naphthalene and pyrene by cytochrome P450cam. <i>FEBS Letters</i> , 1998, 424, 271-274.	1.3	75
11	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.	1.6	74
12	A Highly Active Singleâ€Mutation Variant of P450 <sub>BM3</sub> (CYP102A1). <i>ChemBioChem</i> , 2009, 10, 1654-1656.	1.3	72
13	Drug Oxidation by Cytochrome P450 <sub>BM3</sub> : Metabolite Synthesis and Discovering New P450 Reaction Types. <i>Chemistry - A European Journal</i> , 2015, 21, 15039-15047.	1.7	72
14	The catalytic activity of cytochrome P450cam towards styrene oxidation is increased by site-specific mutagenesis. <i>FEBS Letters</i> , 1997, 405, 153-156.	1.3	68
15	Selective oxidative demethylation of veratric acid to vanillic acid by CYP199A4 from <i>Rhodospseudomonas palustris</i> HaA2. <i>Molecular BioSystems</i> , 2009, 6, 206-214.	2.9	63
16	Structural Basis for the Properties of Two Singleâ€Site Proline Mutants of CYP102A1 (P450 <sub>BM3</sub> ). <i>ChemBioChem</i> , 2010, 11, 2549-2556.	1.3	63
17	The thermodynamics and kinetics of electron transfer in the cytochrome P450cam enzyme system. <i>FEBS Letters</i> , 1999, 451, 351-353.	1.3	61
18	Surface-modified mutants of cytochrome P450cam: enzymatic properties and electrochemistry. <i>FEBS Letters</i> , 1999, 451, 342-346.	1.3	59

#	ARTICLE	IF	CITATIONS
19	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, 561-574.	2.0	55
20	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, 16677-16688.	1.7	53
21	Engineering the haem monooxygenase cytochrome P450cam for monoterpene oxidation. <i>Chemical Communications</i> , 2001, , 635-636.	2.2	52
22	Engineering cytochrome P450cam into an alkane hydroxylase. <i>Dalton Transactions</i> , 2003, , 2133.	1.6	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. <i>Dalton Transactions</i> , 2012, 41, 8703.	1.6	48
24	A scanning tunnelling study of immobilised cytochrome P450cam. <i>Faraday Discussions</i> , 2000, 116, 15-22.	1.6	45
25	Desaturation of Alkylbenzenes by Cytochrome P450 <sub>BM3</sub> (CYP102A1). <i>Chemistry - A European Journal</i> , 2008, 14, 10905-10908.	1.7	45
26	Structure, electronic properties and catalytic behaviour of an activity-enhancing CYP102A1 (P450BM3) variant. <i>Dalton Transactions</i> , 2011, 40, 10383.	1.6	40
27	Synthesis of Imidazolidin-4-ones via a Cytochrome P450-Catalyzed Intramolecular C-H Amination. <i>ACS Catalysis</i> , 2016, 6, 6833-6837.	5.5	38
28	Oxidative Diversification of Steroids by Nature-Inspired Scanning Glycine Mutagenesis of P450BM3 (CYP102A1). <i>ACS Catalysis</i> , 2020, 10, 8334-8343.	5.5	37
29	The structure of CYP101D2 unveils a potential path for substrate entry into the active site. <i>Biochemical Journal</i> , 2011, 433, 85-93.	1.7	36
30	Multi-Functional Oxidase Activity of CYP102A1 (P450BM3) in the Oxidation of Quinolines and Tetrahydroquinolines. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9551-9555.	7.2	35
31	Improved oxidation of aromatic and aliphatic hydrocarbons using rate enhancing variants of P450Bm3 in combination with decoy molecules. <i>Chemical Communications</i> , 2016, 52, 1036-1039.	2.2	33
32	Tailoring an alien ferredoxin to support native-like P450 monooxygenase activity. <i>Chemical Communications</i> , 2012, 48, 11692.	2.2	30
33	Mutations of glutamate-84 at the putative potassium-binding site affect camphor binding and oxidation by cytochrome P450cam. <i>FEBS Journal</i> , 2001, 265, 929-935.	0.2	29
34	Catalytic reductive dehalogenation of hexachloroethane by molecular variants of cytochrome P450cam(CYP101). <i>FEBS Journal</i> , 2000, 267, 5815-5820.	0.2	25
35	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.	6.6	22
36	Cryo-EM structure of trimeric <i>Mycobacterium smegmatis</i> succinate dehydrogenase with a membrane-anchor SdhF. <i>Nature Communications</i> , 2020, 11, 4245.	5.8	20

#	ARTICLE	IF	CITATIONS
37	Biophysical Techniques for Distinguishing Ligand Binding Modes in Cytochrome P450 Monooxygenases. <i>Biochemistry</i> , 2020, 59, 1038-1050.	1.2	20
38	Hydroxylation of anilides by engineered cytochrome P450 <sub>BM3</sub> . <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 8780-8787.	1.5	17
39	Multi-Functional Oxidase Activity of CYP102A1 (P450BM3) in the Oxidation of Quinolines and Tetrahydroquinolines. <i>Angewandte Chemie</i> , 2019, 131, 9651-9655.	1.6	14
40	P450 <sub>BM3</sub> on Steroids: The Swiss Army Knife P450 Enzyme Just Gets Better. <i>ChemBioChem</i> , 2011, 12, 2537-2539.	1.3	13
41	Hydroxylation of Eleuthoside Synthetic Intermediates by P450 <sub>BM3</sub> (CYP102A1). <i>European Journal of Organic Chemistry</i> , 2018, 2018, 6369-6378.	1.2	12
42	Enzymatic Kinetic Resolution by Addition of Oxygen. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 4434-4447.	7.2	11
43	Dihydrogen-Driven NADPH Recycling in Imine Reduction and P450-Catalyzed Oxidations Mediated by an Engineered O <sub>2</sub> -Tolerant Hydrogenase. <i>ChemCatChem</i> , 2020, 12, 4853-4861.	1.8	10
44	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.	2.1	9
45	The oxidation of polychlorinated benzenes by genetically engineered cytochrome P450cam: potential applications in bioremediation. <i>Chemical Communications</i> , 2000, , 247-248.	2.2	8
46	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, 1453-1464.	2.5	8
47	Direct electrochemistry of pentachlorophenol hydroxylase. <i>Chemical Communications</i> , 2001, , 2370-2371.	2.2	7
48	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.	1.0	6
49	Design and Engineering of Cytochrome P450 Systems. , 2007, , 437-476.		3
50	Enzymatic Kinetic Resolution by Addition of Oxygen. <i>Angewandte Chemie</i> , 2021, 133, 4482-4495.	1.6	0