

# Luet Lok Wong

## List of Publications by Year in descending order

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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	Enzymatic Kinetic Resolution by Addition of Oxygen. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 4434-4447.	13.8	11
2	Enzymatic Kinetic Resolution by Addition of Oxygen. <i>Angewandte Chemie</i> , 2021, 133, 4482-4495.	2.0	0
3	Cryo-EM structure of trimeric <i>Mycobacterium smegmatis</i> succinate dehydrogenase with a membrane-anchor SdhF. <i>Nature Communications</i> , 2020, 11, 4245.	12.8	20
4	Oxidative Diversification of Steroids by Nature-Inspired Scanning Glycine Mutagenesis of P450BM3 (CYP102A1). <i>ACS Catalysis</i> , 2020, 10, 8334-8343.	11.2	37
5	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.	3.7	10
6	Biophysical Techniques for Distinguishing Ligand Binding Modes in Cytochrome P450 Monooxygenases. <i>Biochemistry</i> , 2020, 59, 1038-1050.	2.5	20
7	Multi-Functional Oxidase Activity of CYP102A1 (P450BM3) in the Oxidation of Quinolines and Tetrahydroquinolines. <i>Angewandte Chemie</i> , 2019, 131, 9651-9655.	2.0	14
8	Multi-Functional Oxidase Activity of CYP102A1 (P450BM3) in the Oxidation of Quinolines and Tetrahydroquinolines. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9551-9555.	13.8	35
9	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.	13.7	22
10	Hydroxylation of Eleuthoside Synthetic Intermediates by P450 <sub>BM3</sub> (CYP102A1). <i>European Journal of Organic Chemistry</i> , 2018, 2018, 6369-6378.	2.4	12
11	An electron transfer path connects subunits of a mycobacterial respiratory supercomplex. <i>Science</i> , 2018, 362, .	12.6	117
12	Hydroxylation of anilides by engineered cytochrome P450 <sub>BM3</sub> . <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 8780-8787.	2.8	17
13	Synthesis of Imidazolidin-4-ones via a Cytochrome P450-Catalyzed Intramolecular C-H Amination. <i>ACS Catalysis</i> , 2016, 6, 6833-6837.	11.2	38
14	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.	4.1	9
15	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.	4.1	33
16	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.	3.3	72
17	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
18	P450 <sub>BM3</sub> (CYP102A1): connecting the dots. <i>Chemical Society Reviews</i> , 2012, 41, 1218-1260.	38.1	576

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19	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.	3.3	53
20	Tailoring an alien ferredoxin to support native-like P450 monooxygenase activity. <i>Chemical Communications</i> , 2012, 48, 11692.	4.1	30
21	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.	3.3	48
22	Structure, electronic properties and catalytic behaviour of an activity-enhancing CYP102A1 (P450BM3) variant. <i>Dalton Transactions</i> , 2011, 40, 10383.	3.3	40
23	The structure of CYP101D2 unveils a potential path for substrate entry into the active site. <i>Biochemical Journal</i> , 2011, 433, 85-93.	3.7	36
24	P450 <sub>BM3</sub> on Steroids: The Swiss Army Knife P450 Enzyme Just Gets Better. <i>ChemBioChem</i> , 2011, 12, 2537-2539.	2.6	13
25	Structural Basis for the Properties of Two Single-Site Proline Mutants of CYP102A1 (P450 <sub>BM3</sub> ). <i>ChemBioChem</i> , 2010, 11, 2549-2556.	2.6	63
26	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.	3.4	74
27	A Highly Active Single-Mutation Variant of P450 <sub>BM3</sub> (CYP102A1). <i>ChemBioChem</i> , 2009, 10, 1654-1656.	2.6	72
28	Selective oxidative demethylation of veratric acid to vanillic acid by CYP199A4 from <i>Rhodopseudomonas palustris</i> HaA2. <i>Molecular BioSystems</i> , 2009, 6, 206-214.	2.9	63
29	Desaturation of Alkylbenzenes by Cytochrome P450 <sub>BM3</sub> (CYP102A1). <i>Chemistry - A European Journal</i> , 2008, 14, 10905-10908.	3.3	45
30	Crystal Structure of CYP199A2, a Para-Substituted Benzoic Acid Oxidizing Cytochrome P450 from <i>Rhodopseudomonas palustris</i> . <i>Journal of Molecular Biology</i> , 2008, 383, 561-574.	4.2	55
31	Evolved CYP102A1 (P450BM3) variants oxidise a range of non-natural substrates and offer new selectivity options. <i>Chemical Communications</i> , 2008, , 966.	4.1	98
32	Design and Engineering of Cytochrome P450 Systems. , 2007, , 437-476.		3
33	Biotransformation of the sesquiterpene (+)-valencene by cytochrome P450cam and P450BM-3. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 57.	2.8	158
34	Engineering cytochrome P450cam into an alkane hydroxylase. <i>Dalton Transactions</i> , 2003, , 2133.	3.3	48
35	Engineering the haem monooxygenase cytochrome P450cam for monoterpene oxidation. <i>Chemical Communications</i> , 2001, , 635-636.	4.1	52
36	Direct electrochemistry of pentachlorophenol hydroxylase. <i>Chemical Communications</i> , 2001, , 2370-2371.	4.1	7

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37	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
38	Oxidation of polychlorinated benzenes by genetically engineered CYP101 (cytochrome P450cam). FEBS Journal, 2001, 268, 1460-1467.	0.2	99
39	Protein engineering of Bacillus megaterium CYP102. FEBS Journal, 2001, 268, 3117-3125.	0.2	210
40	Catalytic reductive dehalogenation of hexachloroethane by molecular variants of cytochrome P450cam (CYP101). FEBS Journal, 2000, 267, 5815-5820.	0.2	25
41	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
42	A scanning tunnelling study of immobilised cytochrome P450cam. Faraday Discussions, 2000, 116, 15-22.	3.2	45
43	The oxidation of polychlorinated benzenes by genetically engineered cytochrome P450cam: potential applications in bioremediation. Chemical Communications, 2000, , 247-248.	4.1	8
44	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
45	The thermodynamics and kinetics of electron transfer in the cytochrome P450cam enzyme system. FEBS Letters, 1999, 451, 351-353.	2.8	61
46	Surface-modified mutants of cytochrome P450cam: enzymatic properties and electrochemistry. FEBS Letters, 1999, 451, 342-346.	2.8	59
47	Cytochrome P450 monooxygenases. Current Opinion in Chemical Biology, 1998, 2, 263-268.	6.1	86
48	The oxidation of naphthalene and pyrene by cytochrome P450cam. FEBS Letters, 1998, 424, 271-274.	2.8	75
49	The catalytic activity of cytochrome P450cam towards styrene oxidation is increased by site-specific mutagenesis. FEBS Letters, 1997, 405, 153-156.	2.8	68
50	Carbon-Hydrogen-Transition Metal Bonds. Progress in Inorganic Chemistry, 0, , 1-124.	3.0	457