

# Louis Y P Luk

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

1,372  
citations

361045

20  
h-index

360668

35  
g-index

58  
all docs

58  
docs citations

58  
times ranked

1699  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cell-penetrating peptide sequence and modification dependent uptake and subcellular distribution of green fluorescent protein in different cell lines. <i>Scientific Reports</i> , 2019, 9, 6298.	1.6	173
2	Unraveling the role of protein dynamics in dihydrofolate reductase catalysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 16344-16349.	3.3	119
3	Mechanistic Studies on Norcochlorine Synthase of Benzylisoquinoline Alkaloid Biosynthesis: An Enzymatic Pictet-Spengler Reaction. <i>Biochemistry</i> , 2007, 46, 10153-10161.	1.2	111
4	Using genetically incorporated unnatural amino acids to control protein functions in mammalian cells. <i>Essays in Biochemistry</i> , 2019, 63, 237-266.	2.1	72
5	A Cope Rearrangement in the Reaction Catalyzed by Dimethylallyltryptophan Synthase?. <i>Journal of the American Chemical Society</i> , 2011, 133, 12342-12345.	6.6	70
6	Mechanism of Dimethylallyltryptophan Synthase: Evidence for a Dimethylallyl Cation Intermediate in an Aromatic Prenyltransferase Reaction. <i>Journal of the American Chemical Society</i> , 2009, 131, 13932-13933.	6.6	60
7	Increased Dynamic Effects in a Catalytically Compromised Variant of <i>Escherichia coli</i> Dihydrofolate Reductase. <i>Journal of the American Chemical Society</i> , 2013, 135, 18689-18696.	6.6	56
8	Condensation of 2-((Alkylthio)(aryl)methylene)malononitrile with 1,2-Aminothiols as a Novel Bioorthogonal Reaction for Site-Specific Protein Modification and Peptide Cyclization. <i>Journal of the American Chemical Society</i> , 2020, 142, 5097-5103.	6.6	48
9	Comparative biological evaluation and G-quadruplex interaction studies of two new families of organometallic gold(I) complexes featuring N-heterocyclic carbene and alkynyl ligands. <i>Journal of Inorganic Biochemistry</i> , 2020, 202, 110844.	1.5	42
10	Protein motions and dynamic effects in enzyme catalysis. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 30817-30827.	1.3	41
11	Use of an asparaginyl endopeptidase for chemo-enzymatic peptide and protein labeling. <i>Chemical Science</i> , 2020, 11, 5881-5888.	3.7	39
12	Reactivity and Selectivity of Iminium Organocatalysis Improved by a Protein Host. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12478-12482.	7.2	38
13	Chemical Ligation and Isotope Labeling to Locate Dynamic Effects during Catalysis by Dihydrofolate Reductase. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9016-9020.	7.2	35
14	Protein Isotope Effects in Dihydrofolate Reductase From <i>Geobacillus stearothermophilus</i> Show Entropic-Enthalpic Compensatory Effects on the Rate Constant. <i>Journal of the American Chemical Society</i> , 2014, 136, 17317-17323.	6.6	34
15	Cyanine dye mediated mitochondrial targeting enhances the anti-cancer activity of small-molecule cargoes. <i>Chemical Communications</i> , 2020, 56, 4672-4675.	2.2	32
16	Approaches for peptide and protein cyclisation. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 3983-4001.	1.5	32
17	A Versatile Disulfide-Driven Recycling System for NADP <sup>+</sup> with High Cofactor Turnover Number. <i>ACS Catalysis</i> , 2017, 7, 1025-1029.	5.5	27
18	Different Dynamical Effects in Mesophilic and Hyperthermophilic Dihydrofolate Reductases. <i>Journal of the American Chemical Society</i> , 2014, 136, 6862-6865.	6.6	26

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19	Minimization of dynamic effects in the evolution of dihydrofolate reductase. <i>Chemical Science</i> , 2016, 7, 3248-3255.	3.7	25
20	Exploring the Chemoselectivity towards Cysteine Arylation by Cyclometallated Au <sup>III</sup> Compounds: New Mechanistic Insights. <i>ChemBioChem</i> , 2020, 21, 3071-3076.	1.3	25
21	Asparaginyl endopeptidases: enzymology, applications and limitations. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 5048-5062.	1.5	25
22	Reaction Mechanism of Organocatalytic Michael Addition of Nitromethane to Cinnamaldehyde: A Case Study on Catalyst Regeneration and Solvent Effects. <i>Journal of Physical Chemistry A</i> , 2018, 122, 451-459.	1.1	20
23	Site-specific His/Asp phosphoproteomic analysis of prokaryotes reveals putative targets for drug resistance. <i>BMC Microbiology</i> , 2017, 17, 123.	1.3	18
24	Thermal Adaptation of Dihydrofolate Reductase from the Moderate Thermophile <i>Geobacillus stearothermophilus</i> . <i>Biochemistry</i> , 2014, 53, 2855-2863.	1.2	17
25	Î²1-subunit-induced structural rearrangements of the Ca <sup>2+</sup> - and voltage-activated K <sup>+</sup> (BK) channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E3231-9.	3.3	14
26	Reactivity and Selectivity of Iminium Organocatalysis Improved by a Protein Host. <i>Angewandte Chemie</i> , 2018, 130, 12658-12662.	1.6	14
27	Acetylation of <i>Acinetobacter baumannii</i> SK17 Reveals a Highly-Conserved Modification of Histone-Like Protein HU. <i>Frontiers in Molecular Biosciences</i> , 2017, 4, 77.	1.6	13
28	Role of the Occluded Conformation in Bacterial Dihydrofolate Reductases. <i>Biochemistry</i> , 2014, 53, 4761-4768.	1.2	12
29	Reduction of Folate by Dihydrofolate Reductase from <i>Thermotoga maritima</i> . <i>Biochemistry</i> , 2017, 56, 1879-1886.	1.2	12
30	Rearrangements in the mechanisms of the indole alkaloid prenyltransferases. <i>Pure and Applied Chemistry</i> , 2013, 85, 1935-1948.	0.9	11
31	Switchable genome editing via genetic code expansion. <i>Scientific Reports</i> , 2018, 8, 10051.	1.6	11
32	Isotope Substitution of Promiscuous Alcohol Dehydrogenase Reveals the Origin of Substrate Preference in the Transition State. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3128-3131.	7.2	10
33	Applying switchable Cas9 variants to in vivo gene editing for therapeutic applications. <i>Cell Biology and Toxicology</i> , 2020, 36, 17-29.	2.4	10
34	Transfer hydrogenations catalyzed by streptavidin-hosted secondary amine organocatalysts. <i>Chemical Communications</i> , 2021, 57, 1919-1922.	2.2	10
35	Effect of Dimerization on Dihydrofolate Reductase Catalysis. <i>Biochemistry</i> , 2013, 52, 3881-3887.	1.2	9
36	Streptavidin-Hosted Organocatalytic Aldol Addition. <i>Molecules</i> , 2020, 25, 2457.	1.7	9

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37	Reactions of biologically inspired hydride sources with B(C <sub>6</sub> F <sub>5</sub> ) <sub>3</sub> . <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20170009.	1.6	7
38	Combined Theoretical and Experimental Study to Unravel the Differences in Promiscuous Amidase Activity of Two Nonhomologous Enzymes. <i>ACS Catalysis</i> , 2021, 11, 8635-8644.	5.5	6
39	Computational design of an amidase by combining the best electrostatic features of two promiscuous hydrolases. <i>Chemical Science</i> , 2022, 13, 4779-4787.	3.7	6
40	Enabling protein-hosted organocatalytic transformations. <i>RSC Advances</i> , 2020, 10, 16147-16161.	1.7	5
41	Chemoenzymatic Assembly of Isotopically Labeled Folates. <i>Journal of the American Chemical Society</i> , 2017, 139, 13047-13054.	6.6	4
42	Carbapenems as water soluble organocatalysts. <i>Wellcome Open Research</i> , 2018, 3, 107.	0.9	3
43	Transferability of N-terminal mutations of pyrrolysyl-tRNA synthetase in one species to that in another species on unnatural amino acid incorporation efficiency. <i>Amino Acids</i> , 2021, 53, 89-96.	1.2	3
44	Spatio-temporal control of cell death by selective delivery of photo-activatable proteins. <i>ChemBioChem</i> , 2022, , .	1.3	3
45	Chemical Ligation and Isotope Labeling to Locate Dynamic Effects. <i>Methods in Enzymology</i> , 2017, 596, 23-41.	0.4	2
46	Isotope Substitution of Promiscuous Alcohol Dehydrogenase Reveals the Origin of Substrate Preference in the Transition State. <i>Angewandte Chemie</i> , 2018, 130, 3182-3185.	1.6	2
47	Electric Field Measurements Reveal the Pivotal Role of Cofactor-Substrate Interaction in Dihydrofolate Reductase Catalysis. <i>ACS Catalysis</i> , 2020, 10, 7907-7914.	5.5	2
48	The role of streptavidin and its variants in catalysis by biotinylated secondary amines. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 10424-10431.	1.5	2
49	Loss of Hyperconjugative Effects Drives Hydride Transfer during Dihydrofolate Reductase Catalysis. <i>ACS Catalysis</i> , 2019, 9, 10343-10349.	5.5	1
50	Cryo-kinetics Reveal Dynamic Effects on the Chemistry of Human Dihydrofolate Reductase. <i>ChemBioChem</i> , 2021, 22, 2410-2414.	1.3	1
51	Protein Motions, Dynamic Effects and Thermal Stability in Dihydrofolate Reductase from the Hyperthermophile <i>Thermotoga maritima</i> . , 2015, , 99-113.		0
52	Effect of Trimethine Cyanine Dye- and Folate-Conjugation on the In Vitro Biological Activity of Proapoptotic Peptides. <i>Biomolecules</i> , 2022, 12, 725.	1.8	0