

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

361413
20
h-index

361022
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 florescent protein in different cell lines. Scientific Reports, 2019, 9, 6298.	3.3	173
2	Unraveling the role of protein dynamics in dihydrofolate reductase catalysis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 16344-16349.	7.1	119
3	Mechanistic Studies on Norcoclaurine Synthase of Benzyloisoquinoline Alkaloid Biosynthesis: An Enzymatic Pictet-Spengler Reaction. Biochemistry, 2007, 46, 10153-10161.	2.5	111
4	Using genetically incorporated unnatural amino acids to control protein functions in mammalian cells. Essays in Biochemistry, 2019, 63, 237-266.	4.7	72
5	A Cope Rearrangement in the Reaction Catalyzed by Dimethylallyltryptophan Synthase?. Journal of the American Chemical Society, 2011, 133, 12342-12345.	13.7	70
6	Mechanism of Dimethylallyltryptophan Synthase: Evidence for a Dimethylallyl Cation Intermediate in an Aromatic Prenyltransferase Reaction. Journal of the American Chemical Society, 2009, 131, 13932-13933.	13.7	60
7	Increased Dynamic Effects in a Catalytically Compromised Variant of <i>Escherichia coli</i> Dihydrofolate Reductase. Journal of the American Chemical Society, 2013, 135, 18689-18696.	13.7	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. Journal of the American Chemical Society, 2020, 142, 5097-5103.	13.7	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. Journal of Inorganic Biochemistry, 2020, 202, 110844.	3.5	42
10	Protein motions and dynamic effects in enzyme catalysis. Physical Chemistry Chemical Physics, 2015, 17, 30817-30827.	2.8	41
11	Use of an asparaginyl endopeptidase for chemo-enzymatic peptide and protein labeling. Chemical Science, 2020, 11, 5881-5888.	7.4	39
12	Reactivity and Selectivity of Iminium Organocatalysis Improved by a Protein Host. Angewandte Chemie - International Edition, 2018, 57, 12478-12482.	13.8	38
13	Chemical Ligation and Isotope Labeling to Locate Dynamic Effects during Catalysis by Dihydrofolate Reductase. Angewandte Chemie - International Edition, 2015, 54, 9016-9020.	13.8	35
14	Protein Isotope Effects in Dihydrofolate Reductase From <i>Geobacillus stearothermophilus</i> Show Entropic-Enthalpic Compensatory Effects on the Rate Constant. Journal of the American Chemical Society, 2014, 136, 17317-17323.	13.7	34
15	Cyanine dye mediated mitochondrial targeting enhances the anti-cancer activity of small-molecule cargoes. Chemical Communications, 2020, 56, 4672-4675.	4.1	32
16	Approaches for peptide and protein cyclisation. Organic and Biomolecular Chemistry, 2021, 19, 3983-4001.	2.8	32
17	A Versatile Disulfide-Driven Recycling System for NADP ⁺ with High Cofactor Turnover Number. ACS Catalysis, 2017, 7, 1025-1029.	11.2	27
18	Different Dynamical Effects in Mesophilic and Hyperthermophilic Dihydrofolate Reductases. Journal of the American Chemical Society, 2014, 136, 6862-6865.	13.7	26

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19	Minimization of dynamic effects in the evolution of dihydrofolate reductase. <i>Chemical Science</i> , 2016, 7, 3248-3255.	7.4	25
20	Exploring the Chemoselectivity towards Cysteine Arylation by Cyclometallated Au ^{III} Compounds: New Mechanistic Insights. <i>ChemBioChem</i> , 2020, 21, 3071-3076.	2.6	25
21	Asparaginyl endopeptidases: enzymology, applications and limitations. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 5048-5062.	2.8	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.	2.5	20
23	Site-specific His/Asp phosphoproteomic analysis of prokaryotes reveals putative targets for drug resistance. <i>BMC Microbiology</i> , 2017, 17, 123.	3.3	18
24	Thermal Adaptation of Dihydrofolate Reductase from the Moderate Thermophile <i>Geobacillus stearothermophilus</i> . <i>Biochemistry</i> , 2014, 53, 2855-2863.	2.5	17
25	Î²1-subunit-induced structural rearrangements of the Ca ²⁺ - and voltage-activated K ⁺ (BK) channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E3231-9.	7.1	14
26	Reactivity and Selectivity of Iminium Organocatalysis Improved by a Protein Host. <i>Angewandte Chemie</i> , 2018, 130, 12658-12662.	2.0	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.	3.5	13
28	Role of the Occluded Conformation in Bacterial Dihydrofolate Reductases. <i>Biochemistry</i> , 2014, 53, 4761-4768.	2.5	12
29	Reduction of Folate by Dihydrofolate Reductase from <i>Thermotoga maritima</i> . <i>Biochemistry</i> , 2017, 56, 1879-1886.	2.5	12
30	Rearrangements in the mechanisms of the indole alkaloid prenyltransferases. <i>Pure and Applied Chemistry</i> , 2013, 85, 1935-1948.	1.9	11
31	Switchable genome editing via genetic code expansion. <i>Scientific Reports</i> , 2018, 8, 10051.	3.3	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.	13.8	10
33	Applying switchable Cas9 variants to in vivo gene editing for therapeutic applications. <i>Cell Biology and Toxicology</i> , 2020, 36, 17-29.	5.3	10
34	Transfer hydrogenations catalyzed by streptavidin-hosted secondary amine organocatalysts. <i>Chemical Communications</i> , 2021, 57, 1919-1922.	4.1	10
35	Effect of Dimerization on Dihydrofolate Reductase Catalysis. <i>Biochemistry</i> , 2013, 52, 3881-3887.	2.5	9
36	Streptavidin-Hosted Organocatalytic Aldol Addition. <i>Molecules</i> , 2020, 25, 2457.	3.8	9

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37	Reactions of biologically inspired hydride sources with B(C ₆ F ₅) ₃ . Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20170009.	3.4	7
38	Combined Theoretical and Experimental Study to Unravel the Differences in Promiscuous Amidase Activity of Two Nonhomologous Enzymes. ACS Catalysis, 2021, 11, 8635-8644.	11.2	6
39	Computational design of an amidase by combining the best electrostatic features of two promiscuous hydrolases. Chemical Science, 2022, 13, 4779-4787.	7.4	6
40	Enabling protein-hosted organocatalytic transformations. RSC Advances, 2020, 10, 16147-16161.	3.6	5
41	Chemoenzymatic Assembly of Isotopically Labeled Folates. Journal of the American Chemical Society, 2017, 139, 13047-13054.	13.7	4
42	Carbapenems as water soluble organocatalysts. Wellcome Open Research, 2018, 3, 107.	1.8	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. Amino Acids, 2021, 53, 89-96.	2.7	3
44	Spatio-temporal control of cell death by selective delivery of photo-activatable proteins. ChemBioChem, 2022, , .	2.6	3
45	Chemical Ligation and Isotope Labeling to Locate Dynamic Effects. Methods in Enzymology, 2017, 596, 23-41.	1.0	2
46	Isotope Substitution of Promiscuous Alcohol Dehydrogenase Reveals the Origin of Substrate Preference in the Transition State. Angewandte Chemie, 2018, 130, 3182-3185.	2.0	2
47	Electric Field Measurements Reveal the Pivotal Role of Cofactor-Substrate Interaction in Dihydrofolate Reductase Catalysis. ACS Catalysis, 2020, 10, 7907-7914.	11.2	2
48	The role of streptavidin and its variants in catalysis by biotinylated secondary amines. Organic and Biomolecular Chemistry, 2021, 19, 10424-10431.	2.8	2
49	Loss of Hyperconjugative Effects Drives Hydride Transfer during Dihydrofolate Reductase Catalysis. ACS Catalysis, 2019, 9, 10343-10349.	11.2	1
50	Cryo-kinetics Reveal Dynamic Effects on the Chemistry of Human Dihydrofolate Reductase. ChemBioChem, 2021, 22, 2410-2414.	2.6	1
51	Protein Motions, Dynamic Effects and Thermal Stability in Dihydrofolate Reductase from the Hyperthermophile Thermotoga maritima. , 2015, , 99-113.		0
52	Effect of Trimethine Cyanine Dye- and Folate-Conjugation on the In Vitro Biological Activity of Proapoptotic Peptides. Biomolecules, 2022, 12, 725.	4.0	0