

Yu-hong Lam

List of Publications by Year in descending order

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54
papers

1,919
citations

304368

22
h-index

264894

42
g-index

67
all docs

67
docs citations

67
times ranked

2331
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a Stereoselective Synthesis of (1 <i>R</i> ,4 <i>R</i>)- and (1 <i>S</i> ,4 <i>S</i>)-2-Oxa-5-azabicyclo[2.2.2]octane. <i>Organic Process Research and Development</i> , 2022, 26, 640-647.	1.3	4
2	Manufacturing Process Development for Belzutifan, Part 6: Ensuring Scalability for a Deoxyfluorination Reaction. <i>Organic Process Research and Development</i> , 2022, 26, 551-559.	1.3	19
3	Photoredox-Catalyzed Giese Reactions: Decarboxylative Additions to Cyclic Vinylous Amides and Esters. <i>Molecules</i> , 2022, 27, 417.	1.7	0
4	Efficient Aliphatic Hydrogen-Isotope Exchange with Tritium Gas through the Merger of Photoredox and Hydrogenation Catalysts. <i>Journal of the American Chemical Society</i> , 2022, 144, 5010-5022.	6.6	18
5	A Diastereoselective Method for the Construction of <i>syn</i> -2-Deoxy-2-fluoronucleosides. <i>Organic Letters</i> , 2022, 24, 4860-4864.	2.4	8
6	Kilo-Scale Electrochemical Oxidation of a Thioether to a Sulfone: A Workflow for Scaling up Electrosynthesis. <i>Organic Process Research and Development</i> , 2022, 26, 2423-2437.	1.3	25
7	Selective 1,4-Addition of Organolithiums to Maleate Monoesters with Application for a Short Efficient Route to Azaindanones. <i>Synlett</i> , 2021, 32, 192-196.	1.0	3
8	Development of a Flexible and Robust Synthesis of Tetrahydrofuro[3,4- <i>b</i>]furan Nucleoside Analogues. <i>Journal of Organic Chemistry</i> , 2021, 86, 5142-5151.	1.7	7
9	Late-Stage Carbon Isotope Exchange of Aryl Nitriles through Ni-Catalyzed C≡N Bond Activation. <i>Journal of the American Chemical Society</i> , 2021, 143, 4817-4823.	6.6	25
10	Organocatalytic Conversion of Nucleosides to Furanoid Glycals. <i>Journal of Organic Chemistry</i> , 2021, 86, 7529-7536.	1.7	6
11	Photomediated ring contraction of saturated heterocycles. <i>Science</i> , 2021, 373, 1004-1012.	6.0	58
12	Mechanisms and Conformational Control of (4 + 2) and (2 + 2) Cycloadditions of Dienes to Keteniminium Cations. <i>Journal of Organic Chemistry</i> , 2020, 85, 2597-2606.	1.7	7
13	Catalytic Effects of Ammonium and Sulfonium Salts and External Electric Fields on Aza-Diels-Alder Reactions. <i>Journal of Organic Chemistry</i> , 2020, 85, 2618-2625.	1.7	23
14	A Modular and Diastereoselective 5 + 1 Cyclization Approach to N-(Hetero)Aryl Piperidines. <i>Journal of the American Chemical Society</i> , 2020, 142, 726-732.	6.6	15
15	Synthesis of Sterically Hindered Primary Amines by Concurrent Tandem Photoredox Catalysis. <i>Journal of the American Chemical Society</i> , 2020, 142, 987-998.	6.6	83
16	Diastereoselective FeCl ₃ ·6H ₂ O/NaBH ₄ Reduction of Oxime Ether for the Synthesis of ¹³ C-Lactamase Inhibitor Relebactam. <i>Journal of Organic Chemistry</i> , 2020, 85, 994-1000.	1.7	13
17	Electrochemical Synthesis of Hindered Primary and Secondary Amines via Proton-Coupled Electron Transfer. <i>Journal of the American Chemical Society</i> , 2020, 142, 468-478.	6.6	86
18	Unequivocal structure confirmation of a breifussin analog by anisotropic NMR measurements. <i>Chemical Science</i> , 2020, 11, 12081-12088.	3.7	9

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19	Development of a Green and Sustainable Manufacturing Process for Gefapixant Citrate (MK-7264) Part 3: Development of a One-Pot Formylation–Cyclization Sequence to the Diaminopyrimidine Core. <i>Organic Process Research and Development</i> , 2020, 24, 2462-2477.	1.3	10
20	New Mechanism for Cinchona Alkaloid-Catalysis Allows for an Efficient Thiophosphorylation Reaction. <i>Journal of the American Chemical Society</i> , 2020, 142, 20021-20029.	6.6	14
21	Synthesis of Bridged Bicyclic Amines by Intramolecular Amination of Remote C–H Bonds: Synergistic Activation by Light and Heat. <i>Organic Letters</i> , 2020, 22, 6578-6583.	2.4	10
22	Applications of Quantum Chemistry in Pharmaceutical Process Development: Current State and Opportunities. <i>Organic Process Research and Development</i> , 2020, 24, 1496-1507.	1.3	25
23	The merger of decatungstate and copper catalysis to enable aliphatic C(sp ³)–H trifluoromethylation. <i>Nature Chemistry</i> , 2020, 12, 459-467.	6.6	226
24	Theoretical Study of Diastereoselective NHC-Catalyzed Cross-Benzoin Reactions between Furfural and <i>N</i> -Boc-Protected α -Amino Aldehydes. <i>Journal of Organic Chemistry</i> , 2019, 84, 13565-13571.	1.7	15
25	Discovery of Amino-cyclobutane-derived Indoleamine-2,3-dioxygenase 1 (IDO1) Inhibitors for Cancer Immunotherapy. <i>ACS Medicinal Chemistry Letters</i> , 2019, 10, 1530-1536.	1.3	38
26	One-Step Synthesis of 2-Fluoroadenine Using Hydrogen Fluoride Pyridine in a Continuous Flow Operation. <i>Organic Process Research and Development</i> , 2019, 23, 1522-1528.	1.3	14
27	Process Safety Considerations for the Supply of a High-Energy Oxadiazole IDO1-Selective Inhibitor. <i>Organic Process Research and Development</i> , 2019, 23, 1178-1190.	1.3	4
28	Assembly of Complex Macrocycles by Incrementally Amalgamating Unprotected Peptides with a Designed Four-Armed Insert. <i>Journal of Organic Chemistry</i> , 2018, 83, 3090-3108.	1.7	8
29	Computational prediction of chemical reactions: current status and outlook. <i>Drug Discovery Today</i> , 2018, 23, 1203-1218.	3.2	126
30	Quinine-Promoted, Enantioselective Boron-Tethered Diels–Alder Reaction by Anomeric Control of Transition-State Conformation. <i>Journal of Organic Chemistry</i> , 2018, 83, 5756-5765.	1.7	15
31	Metal- and Acid-Free C–H Formylation of Nitrogen Heterocycles: Using Trioxane as an Aldehyde Equivalent Enabled by an Organic-Soluble Oxidant. <i>Organic Letters</i> , 2018, 20, 5752-5756.	2.4	24
32	Mechanisms and Origins of Periselectivity of the Ambimodal [6 + 4] Cycloadditions of Tropone to Dimethylfulvene. <i>Journal of the American Chemical Society</i> , 2017, 139, 8251-8258.	6.6	87
33	Origins of Stereoselectivity in Chiral Aminoalcohol Catalysis of Oxyallyl Cation–Indole Reactions. <i>Organic Letters</i> , 2017, 19, 5685-5688.	2.4	9
34	Model for the Enantioselectivity of Asymmetric Intramolecular Alkylations by Bis-Quaternized Cinchona Alkaloid-Derived Catalysts. <i>Journal of Organic Chemistry</i> , 2017, 82, 8645-8650.	1.7	29
35	Selective Formation of Functionalized α -Quaternary Malononitriles toward 5,5-Disubstituted Pyrrolopyrimidinones. <i>Organic Letters</i> , 2017, 19, 4448-4451.	2.4	4
36	Origins of Stereoselectivity of Enamine–Iminium-Activated Nazarov Cyclizations by Vicinal Diamines. <i>Journal of Organic Chemistry</i> , 2017, 82, 8186-8190.	1.7	7

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37	Organocatalysis: Fundamentals and Comparisons to Metal and Enzyme Catalysis. <i>Catalysts</i> , 2016, 6, 128.	1.6	28
38	Origins of Stereoselectivity of Chiral Vicinal Diamine-Catalyzed Aldol Reactions. <i>Journal of Organic Chemistry</i> , 2016, 81, 12408-12415.	1.7	12
39	Theory and Modeling of Asymmetric Catalytic Reactions. <i>Accounts of Chemical Research</i> , 2016, 49, 750-762.	7.6	149
40	Transition States of Vicinal Diamine-Catalyzed Aldol Reactions. <i>Journal of the American Chemical Society</i> , 2016, 138, 503-506.	6.6	24
41	An asymmetric pericyclic cascade approach to 3-alkyl-3-aryloxindoles: generality, applications and mechanistic investigations. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 1807-1817.	1.5	30
42	Origins of Stereoselectivity in Intramolecular Aldol Reactions Catalyzed by Cinchona Amines. <i>Journal of the American Chemical Society</i> , 2015, 137, 2116-2127.	6.6	74
43	Origins of the Stereoselectivity in a Thiourea-Primary Amine-Catalyzed Nazarov Cyclization. <i>Journal of the American Chemical Society</i> , 2015, 137, 13191-13199.	6.6	43
44	How Cinchona Alkaloid-Derived Primary Amines Control Asymmetric Electrophilic Fluorination of Cyclic Ketones. <i>Journal of the American Chemical Society</i> , 2014, 136, 9556-9559.	6.6	64
45	Boron Carboxylate Catalysis of Homoallylboration. <i>Journal of Organic Chemistry</i> , 2014, 79, 4277-4284.	1.7	8
46	Fluorine as a Regiocontrol Element in the Ring Opening of Bicyclic Aziridiniums. <i>Helvetica Chimica Acta</i> , 2012, 95, 2265-2277.	1.0	13
47	Stereoselectivities of Histidine-Catalyzed Asymmetric Aldol Additions and Contrasts with Proline Catalysis: A Quantum Mechanical Analysis. <i>Journal of the American Chemical Society</i> , 2012, 134, 6286-6295.	6.6	52
48	Hydrophobic Substituent Effects on Proline Catalysis of Aldol Reactions in Water. <i>Journal of Organic Chemistry</i> , 2012, 77, 4784-4792.	1.7	60
49	Enamine Carboxylates as Stereodetermining Intermediates in Prolinate Catalysis. <i>Organic Letters</i> , 2011, 13, 5644-5647.	2.4	53
50	Pericyclic Cascade with Chirality Transfer: Reaction Pathway and Origin of Enantioselectivity of the Hetero-Claisen Approach to Oxindoles. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11478-11482.	7.2	45
51	Recent progress in the use of fluoroorganic compounds in pericyclic reactions. <i>Tetrahedron</i> , 2009, 65, 9905-9933.	1.0	40
52	Diels-Alder Exo Selectivity in Terminal-Substituted Dienes and Dienophiles: Experimental Discoveries and Computational Explanations. <i>Journal of the American Chemical Society</i> , 2009, 131, 1947-1957.	6.6	103
53	Diastereoselective Fluorination of Silylated 1,2-Oxazines to Access Fluorinated N,O-Heterocycles. <i>Synlett</i> , 2007, 2007, 3022-3026.	1.0	2
54	A Concise Synthesis of Enantioenriched Fluorinated Carbocycles. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 5106-5110.	7.2	43