

# Yu-hong Lam

## List of Publications by Year in descending order

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54  
papers

1,919  
citations

304743

22  
h-index

265206

42  
g-index

67  
all docs

67  
docs citations

67  
times ranked

2331  
citing authors

#	ARTICLE	IF	CITATIONS
1	The merger of decatungstate and copper catalysis to enable aliphatic C(sp <sup>3</sup> )-H trifluoromethylation. <i>Nature Chemistry</i> , 2020, 12, 459-467.	13.6	226
2	Theory and Modeling of Asymmetric Catalytic Reactions. <i>Accounts of Chemical Research</i> , 2016, 49, 750-762.	15.6	149
3	Computational prediction of chemical reactions: current status and outlook. <i>Drug Discovery Today</i> , 2018, 23, 1203-1218.	6.4	126
4	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.	13.7	103
5	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.	13.7	87
6	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.	13.7	86
7	Synthesis of Sterically Hindered Primary Amines by Concurrent Tandem Photoredox Catalysis. <i>Journal of the American Chemical Society</i> , 2020, 142, 987-998.	13.7	83
8	Origins of Stereoselectivity in Intramolecular Aldol Reactions Catalyzed by Cinchona Amines. <i>Journal of the American Chemical Society</i> , 2015, 137, 2116-2127.	13.7	74
9	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.	13.7	64
10	Hydrophobic Substituent Effects on Proline Catalysis of Aldol Reactions in Water. <i>Journal of Organic Chemistry</i> , 2012, 77, 4784-4792.	3.2	60
11	Photomediated ring contraction of saturated heterocycles. <i>Science</i> , 2021, 373, 1004-1012.	12.6	58
12	Enamine Carboxylates as Stereodetermining Intermediates in Proline Catalysis. <i>Organic Letters</i> , 2011, 13, 5644-5647.	4.6	53
13	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.	13.7	52
14	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.	13.8	45
15	A Concise Synthesis of Enantioenriched Fluorinated Carbocycles. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 5106-5110.	13.8	43
16	Origins of the Stereoselectivity in a Thiourea-Primary Amine-Catalyzed Nazarov Cyclization. <i>Journal of the American Chemical Society</i> , 2015, 137, 13191-13199.	13.7	43
17	Recent progress in the use of fluoroorganic compounds in pericyclic reactions. <i>Tetrahedron</i> , 2009, 65, 9905-9933.	1.9	40
18	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.	2.8	38

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19	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.	2.8	30
20	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.	3.2	29
21	Organocatalysis: Fundamentals and Comparisons to Metal and Enzyme Catalysis. <i>Catalysts</i> , 2016, 6, 128.	3.5	28
22	Applications of Quantum Chemistry in Pharmaceutical Process Development: Current State and Opportunities. <i>Organic Process Research and Development</i> , 2020, 24, 1496-1507.	2.7	25
23	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.	13.7	25
24	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.	2.7	25
25	Transition States of Vicinal Diamine-Catalyzed Aldol Reactions. <i>Journal of the American Chemical Society</i> , 2016, 138, 503-506.	13.7	24
26	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.	4.6	24
27	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.	3.2	23
28	Manufacturing Process Development for Belzutifan, Part 6: Ensuring Scalability for a Deoxyfluorination Reaction. <i>Organic Process Research and Development</i> , 2022, 26, 551-559.	2.7	19
29	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.	13.7	18
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.	3.2	15
31	Theoretical Study of Diastereoselective NHC-Catalyzed Cross-Benzoin Reactions between Furfural and <i>N</i> -Boc-Protected $\alpha$ -Amino Aldehydes. <i>Journal of Organic Chemistry</i> , 2019, 84, 13565-13571.	3.2	15
32	A Modular and Diastereoselective 5 + 1 Cyclization Approach to <i>N</i> -(Hetero)Aryl Piperidines. <i>Journal of the American Chemical Society</i> , 2020, 142, 726-732.	13.7	15
33	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.	2.7	14
34	New Mechanism for Cinchona Alkaloid-Catalysis Allows for an Efficient Thiophosphorylation Reaction. <i>Journal of the American Chemical Society</i> , 2020, 142, 20021-20029.	13.7	14
35	Fluorine as a Regiocontrol Element in the Ring Opening of Bicyclic Aziridiniums. <i>Helvetica Chimica Acta</i> , 2012, 95, 2265-2277.	1.6	13
36	Diastereoselective $\text{FeCl}_3 \cdot 6\text{H}_2\text{O}/\text{NaBH}_4$ Reduction of Oxime Ether for the Synthesis of $\beta$ -Lactamase Inhibitor Relebactam. <i>Journal of Organic Chemistry</i> , 2020, 85, 994-1000.	3.2	13

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37	Origins of Stereoselectivity of Chiral Vicinal Diamine-Catalyzed Aldol Reactions. <i>Journal of Organic Chemistry</i> , 2016, 81, 12408-12415.	3.2	12
38	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.	2.7	10
39	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.	4.6	10
40	Origins of Stereoselectivity in Chiral Aminoalcohol Catalysis of Oxyallyl Cation–Indole Reactions. <i>Organic Letters</i> , 2017, 19, 5685-5688.	4.6	9
41	Unequivocal structure confirmation of a breitfussin analog by anisotropic NMR measurements. <i>Chemical Science</i> , 2020, 11, 12081-12088.	7.4	9
42	Boron Carboxylate Catalysis of Homoallylboration. <i>Journal of Organic Chemistry</i> , 2014, 79, 4277-4284.	3.2	8
43	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.	3.2	8
44	A Diastereoselective Method for the Construction of <i>syn</i> -2-Deoxy-2-fluoronucleosides. <i>Organic Letters</i> , 2022, 24, 4860-4864.	4.6	8
45	Origins of Stereoselectivity of Enamine–Iminium-Activated Nazarov Cyclizations by Vicinal Diamines. <i>Journal of Organic Chemistry</i> , 2017, 82, 8186-8190.	3.2	7
46	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.	3.2	7
47	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.	3.2	7
48	Organocatalytic Conversion of Nucleosides to Furanoid Glycals. <i>Journal of Organic Chemistry</i> , 2021, 86, 7529-7536.	3.2	6
49	Selective Formation of Functionalized $\beta$ -Quaternary Malononitriles toward 5,5-Disubstituted Pyrrolopyrimidinones. <i>Organic Letters</i> , 2017, 19, 4448-4451.	4.6	4
50	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.	2.7	4
51	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.	2.7	4
52	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.	1.8	3
53	Diastereoselective Fluorination of Silylated 1,2-Oxazines to Access Fluorinated N,O-Heterocycles. <i>Synlett</i> , 2007, 2007, 3022-3026.	1.8	2
54	Photoredox-Catalyzed Giese Reactions: Decarboxylative Additions to Cyclic Vinylogous Amides and Esters. <i>Molecules</i> , 2022, 27, 417.	3.8	0