

# Yan-Kai Liu

## List of Publications by Year in descending order

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43  
papers

1,350  
citations

394421

19  
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345221

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g-index

46  
all docs

46  
docs citations

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times ranked

1092  
citing authors

#	ARTICLE	IF	CITATIONS
1	Asymmetric Catalysis of Diels-Alder Reactions with in Situ Generated Heterocyclic <i>ortho</i> -Quinodimethanes. <i>Journal of the American Chemical Society</i> , 2011, 133, 15212-15218.	13.7	357
2	Multicatalytic Asymmetric Synthesis of Complex Tetrahydrocarbazoles via a Diels-Alder/Benzoin Reaction Sequence. <i>Organic Letters</i> , 2012, 14, 1310-1313.	4.6	149
3	Aminocatalytic Enantioselective 1,6-Additions of Alkyl Thiols to Cyclic Dienones: Vinylogous Iminium-Ion Activation. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6439-6442.	13.8	143
4	Diversity-Oriented One-Pot Synthesis to Construct Functionalized Chroman-2-one Derivatives and Other Heterocyclic Compounds. <i>Journal of Organic Chemistry</i> , 2017, 82, 4774-4783.	3.2	43
5	Organocatalytic Asymmetric Synthesis of Spiro-Bridged and Spiro-Fused Heterocyclic Compounds Containing Chromane, Indole, and Oxindole Moieties. <i>Organic Letters</i> , 2018, 20, 6682-6686.	4.6	43
6	Open-Close: An Alternative Strategy to $\beta$ -Functionalization of Lactone via Enamine Catalysis in One Pot under Mild Conditions. <i>Organic Letters</i> , 2015, 17, 2022-2025.	4.6	32
7	Substrate-Controlled, One-Pot Synthesis: Access to Chiral Chroman-2-one and Polycyclic Derivatives. <i>Organic Letters</i> , 2016, 18, 864-867.	4.6	31
8	One-pot, highly efficient, asymmetric synthesis of ring-fused piperidine derivatives bearing N,O- or N,N-acetal moieties. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 2444-2453.	2.8	29
9	Penipyridones A-F, Pyridone Alkaloids from <i>Penicillium funiculosum</i> . <i>Journal of Natural Products</i> , 2016, 79, 1783-1790.	3.0	26
10	The Quinary Catalyst-Substrate Complex Induced Construction of Spiro-Bridged or Cage-like Polyheterocyclic Compounds via a Substrate-Controlled Cascade Process. <i>Organic Letters</i> , 2019, 21, 6750-6755.	4.6	26
11	An Efficient One-Pot Approach to the Construction of Chiral Nitrogen-Containing Heterocycles under Mild Conditions. <i>Organic Letters</i> , 2015, 17, 3794-3797.	4.6	25
12	Organocatalytic Diversity-Oriented Asymmetric Synthesis of Structurally and Stereochemically Complex Heterocycles. <i>Organic Letters</i> , 2018, 20, 1630-1633.	4.6	24
13	Anthranosides A-C, Anthranilate Derivatives from a Sponge-Derived <i>Streptomyces</i> sp. CMN-62. <i>Organic Letters</i> , 2018, 20, 5466-5469.	4.6	23
14	Different hybridized oxygen atoms controlled chemoselective formation of oxocarbenium ions: synthesis of chiral heterocyclic compounds. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 6507-6520.	2.8	22
15	Lactols in Asymmetric Sequential Organo- and Gold-Catalysis: Synthesis of Densely Functionalized Epimeric Bicyclic O,O-Acetals. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 4260-4266.	4.3	21
16	Asymmetric Organocatalytic One-Pot, Two-Step Sequential Process to Synthesize Chiral Acetal-Containing Polycyclic Derivatives from Cyclic Hemiacetals and Enones. <i>Journal of Organic Chemistry</i> , 2017, 82, 10450-10460.	3.2	21
17	Asymmetric Organocatalyzed Reaction Sequence To Synthesize Chiral Bridged and Spiro-Bridged Benzofused Aminals via Divergent Pathways. <i>Organic Letters</i> , 2019, 21, 5556-5561.	4.6	20
18	Asymmetric construction of polycyclic indole derivatives with different ring connectivities by an organocatalysis triggered two-step sequence. <i>Organic Chemistry Frontiers</i> , 2019, 6, 919-924.	4.5	20

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19	Chemoreactive-Inspired Discovery of Influenza A Virus Dual Inhibitor to Block Hemagglutinin-Mediated Adsorption and Membrane Fusion. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 6924-6940.	6.4	20
20	Organocatalytic, Asymmetric [2+2+2] Annulation to Construct Six-Membered Spirocyclic Oxindoles with Six Continuous Stereogenic Centers. <i>Catalysts</i> , 2016, 6, 65.	3.5	19
21	Enantio- and diastereoselective synthesis of tetrahydrofuro[2,3-b]furan-2(3H)-one derivatives and related oxygen heterocycles via an asymmetric organocatalytic cascade process. <i>Organic Chemistry Frontiers</i> , 2017, 4, 2358-2363.	4.5	19
22	Two Competitive but Switchable Organocatalytic Cascade Reaction Pathways: The Diversified Synthesis of Chiral Acetal-Containing Bridged Cyclic Compounds. <i>Organic Letters</i> , 2019, 21, 190-195.	4.6	18
23	An asymmetric multicatalytic reaction sequence of 2-hydroxycinnamaldehydes and enolic 1,3-dicarbonyl compounds to construct bridged bicyclic acetals. <i>Organic Chemistry Frontiers</i> , 2020, 7, 292-297.	4.5	18
24	Diversified Synthesis of Chiral Chromane-Containing Polyheterocyclic Compounds via Asymmetric Organocatalytic Cascade Reactions. <i>ACS Omega</i> , 2018, 3, 16615-16625.	3.5	16
25	Asymmetric Organocatalytic Sequential Reaction of Structurally Complex Cyclic Hemiacetals and Functionalized Nitro-olefins To Synthesize Diverse Heterocycles. <i>Organic Letters</i> , 2018, 20, 3609-3612.	4.6	16
26	Asymmetric organocatalytic vinylogous Michael addition triggered triple-cascade reactions of 2-hydroxycinnamaldehydes and vinylogous nucleophiles: construction of benzofused oxabicyclo[3.3.1]nonane scaffolds. <i>Chemical Communications</i> , 2021, 57, 1762-1765.	4.1	16
27	From racemic precursors to fully stereocontrolled products: one-pot synthesis of chiral $\hat{\pm}$ -amino lactones and lactams. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 6316-6327.	2.8	15
28	Application of E1cB Elimination in Asymmetric Organocatalytic Cascade Reactions To Construct Polyheterocyclic Compounds. <i>Organic Letters</i> , 2019, 21, 8358-8363.	4.6	15
29	Lactols in an asymmetric aldol-desymmetrization sequence: access to tetrahydro-4H-furo[2,3-b]pyran-2-one and tetrahydro-4H-furo[2,3-b]furan-2-one derivatives. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 1407-1417.	2.8	14
30	Organocatalytic asymmetric synthesis of both <i>cis</i> - and <i>trans</i> -configured pyrano[2,3- <i>b</i> ]chromenes via different dehydration pathways. <i>Organic Chemistry Frontiers</i> , 2019, 6, 1972-1976.	4.5	14
31	Synthesis of Chiral Polycyclic Tetrahydrocarbazoles by Enantioselective Aminocatalytic Double Activation of 2-Hydroxycinnamaldehydes with Dienals. <i>Organic Letters</i> , 2021, 23, 6515-6519.	4.6	13
32	A highly efficient route to C-3 alkyl-substituted indoles via a metal-free transfer hydrogenation. <i>Tetrahedron Letters</i> , 2014, 55, 3774-3776.	1.4	11
33	Asymmetric organocatalyzed reaction sequence of 2-hydroxy cinnamaldehydes and acyclic N-sulfonyl ketimines to construct diverse chiral bridged polycyclic amins. <i>Organic Chemistry Frontiers</i> , 2019, 6, 3725-3730.	4.5	10
34	The Attractive Application of Lactol Chemistry: From Racemic Lactol to Natural Product Skeleton. <i>Synthesis</i> , 2016, 48, 2581-2594.	2.3	9
35	AS1041, a Novel Synthesized Derivative of Marine Natural Compound Aspergiolide A, Arrests Cell Cycle, Induces Apoptosis, and Inhibits ERK Activation in K562 Cells. <i>Marine Drugs</i> , 2017, 15, 346.	4.6	9
36	Aspergiolides A and B: Core Structural Establishment and Synthesis of Structural Analogues. <i>Journal of Organic Chemistry</i> , 2019, 84, 4451-4457.	3.2	8

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37	Brønsted acid-catalyzed dynamic kinetic resolution of <i>in situ</i> formed acyclic <i>N,O</i> -hemiaminals: cascade synthesis of chiral cyclic <i>N,O</i> -aminals. <i>Organic Chemistry Frontiers</i> , 2021, 8, 6309-6316.	4.5	8
38	Bromophenol Bis (2,3,6-Tribromo-4,5-dihydroxybenzyl) Ether Protects HaCaT Skin Cells from Oxidative Damage via Nrf2-Mediated Pathways. <i>Antioxidants</i> , 2021, 10, 1436.	5.1	7
39	Enantioselective organocatalytic sequential Michael-cyclization of functionalized nitroalkanes to 2-hydroxycinnamaldehydes: synthesis of benzofused dioxo[3.3.1] and oxo[4.3.1] methylene-bridged compounds. <i>Organic Chemistry Frontiers</i> , 2021, 8, 4217-4223.	4.5	6
40	Marine Bromophenol Bis(2,3,6-Tribromo-4,5-Dihydroxybenzyl)ether Inhibits Angiogenesis in Human Umbilical Vein Endothelial Cells and Reduces Vasculogenic Mimicry in Human Lung Cancer A549 Cells. <i>Marine Drugs</i> , 2021, 19, 641.	4.6	6
41	Asymmetric organocatalytic multicomponent reactions for efficient construction of bicyclic compounds bearing bisacetal and isoxazolidine moieties. <i>Chemical Communications</i> , 2020, 56, 12765-12768.	4.1	5
42	Antioxidant and Anticancer Activities of Synthesized Methylated and Acetylated Derivatives of Natural Bromophenols. <i>Antioxidants</i> , 2022, 11, 786.	5.1	2
43	Mechanism studies of the chemoselective ring opening of <i>N</i> -tosyl aziridines with aldehydes catalyzed by an <i>N</i> -heterocyclic carbene under aerobic conditions. <i>Theoretical Chemistry Accounts</i> , 2016, 135, 1.	1.4	1