Xue-Wei Liu

List of Publications by Year
in descending order

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86 papers	2,923 citations	147801 31 h-index	206112 48 g-index
95 all docs	95 docs citations	95 times ranked	2974 citing authors

#	Article	IF	Citations
1	N-Heterocyclic Carbene-Mediated Oxidative Esterification of Aldehydes: Ester Formation and Mechanistic Studies. Journal of Organic Chemistry, 2011, 76, 3016-3023.	3.2	109
2	Venturing beyond Donor-Controlled Glycosylation: New Perspectives toward Anomeric Selectivity. Accounts of Chemical Research, 2018, 51, 628-639.	15.6	106
3	Recent progress of C-glycosylation methods in the total synthesis of natural products and pharmaceuticals. Organic and Biomolecular Chemistry, 2018, 16, 1791-1806.	2.8	101
4	Direct C-Glycosylation of Organotrifluoroborates with Glycosyl Fluorides and Its Application to the Total Synthesis of (+)-Varitriol. Organic Letters, 2011, 13, 42-45.	4.6	92
5	Enantiomeric glycosylated cationic block co-beta-peptides eradicate Staphylococcus aureus biofilms and antibiotic-tolerant persisters. Nature Communications, 2019, 10, 4792.	12.8	88
6	Oxidative Heck Reaction of Glycals and Aryl Hydrazines: A Palladium-Catalyzed C-Glycosylation. Journal of Organic Chemistry, 2013, 78, 8821-8825.	3.2	87
7	Regio- and Stereoselective Synthesis of 2-Deoxy-C-aryl Glycosides via Palladium Catalyzed Decarboxylative Reactions. Organic Letters, 2011, 13, 4608-4611.	4.6	83
8	The intriguing dual-directing effect of 2-cyanobenzyl ether for a highly stereospecific glycosylation reaction. Nature Communications, 2014, 5, 5051.	12.8	83
9	Design of a â€œTurn-Off/Turn-Onâ€•Biosensor: Understanding Carbohydrate-Lectin Interactions for Use in Noncovalent Drug Delivery. Journal of the American Chemical Society, 2012, 134, 15229-15232.	13.7	72
10	Stereoselective Î²â€Câ€Glycosylation by a Palladiumâ€Catalyzed Decarboxylative Allylation: Formal Synthesis of Aspergillideâ€…A. Angewandte Chemie - International Edition, 2013, 52, 5134-5137.	13.8	69
11	Nanoparticles of Short Cationic Peptidopolysaccharide Self-Assembled by Hydrogen Bonding with Antibacterial Effect against Multidrug-Resistant Bacteria. ACS Applied Materials & Interfaces, 2017, 9, 38288-38303.	8.0	67
12	Nâ€Heterocyclic Carbene Catalyzed Homoenolateâ€Addition Reaction of Enals and Nitroalkenes: Asymmetric Synthesis of 5â€Carbonâ€Synthon Î´â€Nitroesters. Angewandte Chemie - International Edition, 2012, 51, 8276-8280.	13.8	65
13	N-Heterocyclic Carbene-Catalyzed Intramolecular Aldehydeâ^'Nitrile Cross Coupling: An Easy Access to 3- Aminochromones. Organic Letters, 2010, 12, 352-355.	4.6	58
14	Nâ€Heterocyclic Carbene Catalyzed Intramolecular Hydroacylation of Activated Alkynes: Synthesis of Chromones. Advanced Synthesis and Catalysis, 2011, 353, 219-225.	4.3	58
15	3â€Aminodeoxypyranoses in Glycosylation: Diversityâ€Oriented Synthesis and Assembly in Oligosaccharides. Angewandte Chemie - International Edition, 2017, 56, 5227-5231.	13.8	55
16	Mechanistic Insights into the Substrateâ€Controlled Stereochemistry of Glycals in Oneâ€Pot Rhodiumâ€Catalyzed Aziridination and Aziridine Ring Opening. Chemistry - A European Journal, 2010, 16, 588-594.	3.3	53
17	PGE1 and PGA1 bind to Nurr1 and activate its transcriptional function. Nature Chemical Biology, 2020, 16, 876-886.	8.0	51
18	Direct Aldehyde Csp²â^'H Functionalization through Visibleâ€Lightâ€Mediated Photoredox Catalysis. Chemistry - A European Journal, 2017, 23, 15899-15902.	3.3	50

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19	An efficient synthesis of chiral phosphinyl oxide pyrrolidines and their application to asymmetric direct aldol reactions. Organic and Biomolecular Chemistry, 2008, 6, 3997.	2.8	49
20	Sugarâ€Based Synthesis of Tamiflu and Its Inhibitory Effects on Cell Secretion. Chemistry - A European Journal, 2010, 16, 4533-4540.	3.3	48
21	Highly stereoselective synthesis of aminoglycosides via rhodium-catalyzed and substrate-controlled aziridination of glycals. Organic and Biomolecular Chemistry, 2009, 7, 1284.	2.8	46
22	N-Heterocyclic Carbene Catalyzed C-Glycosylation: A Concise Approach from Stetter Reaction. Organic Letters, 2012, 14, 174-177.	4.6	45
23	Recent advances in reagent-controlled stereoselective/stereospecific glycosylation. Carbohydrate Research, 2019, 473, 72-81.	2.3	44
24	Catalyst-Controlled Stereoselective O-Glycosylation: Pd(0) vs Pd(II). ACS Catalysis, 2017, 7, 5456-5460.	11.2	42
25	Aryl/hetero-arylethyne bridged dyes: the effect of planar Ï€-bridge on the performance of dye-sensitized solar cells. New Journal of Chemistry, 2011, 35, 127-136.	2.8	40
26	Reversing the Stereoselectivity of a Palladiumâ€Catalyzed Oâ€Glycosylation through an Innerâ€Sphere or Outerâ€Sphere Pathway. Angewandte Chemie - International Edition, 2015, 54, 604-607.	13.8	40
27	Interrupted Iminoâ€Nazarov Cyclization of 1â€Aminopentadienyl Cation and Related Cascade Process. Angewandte Chemie - International Edition, 2014, 53, 10742-10746.	13.8	40
28	A Short and Highly Efficient Synthesis of <scp>l</scp>-Ristosamine and <scp>l</scp>-epi-Daunosamine Glycosides. Organic Letters, 2011, 13, 652-655.	4.6	38
29	A highly efficient dual catalysis approach for C-glycosylation: addition of (o-azaaryl)carboxaldehyde to glycals. Chemical Communications, 2014, 50, 13391-13393.	4.1	38
30	Stimuli-responsive multifunctional glyconanoparticle platforms for targeted drug delivery and cancer cell imaging. Chemical Science, 2017, 8, 3980-3988.	7.4	38
31	Synthesis of Antibacterial Glycosylated Polycaprolactones Bearing Imidazoliums with Reduced Hemolytic Activity. Biomacromolecules, 2019, 20, 949-958.	5.4	36
32	Multifunctional Glycoâ€Nanosheets to Eradicate Drugâ€Resistant Bacteria on Wounds. Advanced Healthcare Materials, 2020, 9, e2000265.	7.6	33
33	Î²â€Type Glycosidic Bond Formation by Palladiumâ€Catalyzed Decarboxylative Allylation. Chemistry - A European Journal, 2013, 19, 14047-14051.	3.3	32
34	Visible-Light Photoredox Enables Ketone Carbonyl Alkylation for Easy Access to Tertiary Alcohols. ACS Catalysis, 2019, 9, 9009-9014.	11.2	32
35	Glycosylated porphyrin derivatives and their photodynamic activity in cancer cells. MedChemComm, 2011, 2, 371.	3.4	31
36	Total Synthesis of Sialic Acid by a Sequential Rhodiumâ€Catalyzed Aziridination and Barbier Allylation of <scp>D</scp>â€Glycal. Angewandte Chemie - International Edition, 2011, 50, 12054-12057.	13.8	31

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37	Stereo- and regioselective glycosylation with protection-less sugar derivatives: an alluring strategy to access glycans and natural products. Chemical Society Reviews, 2019, 48, 4006-4018.	38.1	31
38	Palladium-Catalyzed Glycosylation: Novel Synthetic Approach to Diverse N-Heterocyclic Glycosides. Organic Letters, 2015, 17, 1357-1360.	4.6	30
39	Green glycosylation promoted by reusable biomass carbonaceous solid acid: an easy access to Î²-stereoselective terpene galactosides. Green Chemistry, 2011, 13, 573.	9.0	28
40	Facile Access to cisâ€2,6â€Disubstituted Tetrahydropyrans by Palladiumâ€Catalyzed Decarboxylative Allylation: Total Syntheses of (Â±)â€Centrolobine and (+)â€Decytospolides A and B. Chemistry - A European Journal, 2014, 20, 405-409.	3.3	28
41	One-pot synthesis of Î²-N-glycosyl imidazole analogues via a palladium-catalysed decarboxylative allylation. Chemical Communications, 2014, 50, 4222.	4.1	28
42	Palladium Catalyzed Stereoselective C-Glycosylation of Glycals with Enol Triflates. Organic Letters, 2011, 13, 5648-5651.	4.6	27
43	Stereocontrolled O-Glycosylation with Palladium-Catalyzed Decarboxylative Allylation. Journal of Organic Chemistry, 2014, 79, 11473-11482.	3.2	27
44	A minimalist approach to stereoselective glycosylation with unprotected donors. Nature Communications, 2017, 8, 1146.	12.8	27
45	Palladium-Catalyzed Decarboxylative Allylation/Wittig Reaction: Substrate-Controlled Synthesis of C-Vinyl Glycosides. Organic Letters, 2017, 19, 416-419.	4.6	26
46	Metal-free visible light photoredox enables generation of carbyne equivalents via phosphonium ylide Câ€“H activation. Chemical Science, 2019, 10, 1687-1691.	7.4	25
47	Lewis acidâ€“surfactant-combined catalyzed synthesis of 4-aminocyclopentenones from glycals in water. Green Chemistry, 2013, 15, 3180.	9.0	24
48	Palladiumâ€Catalyzed Stereoselective Câ€Glycosylation of Glycals with Sodium Arylsulfinates. European Journal of Organic Chemistry, 2015, 2015, 949-952.	2.4	24
49	Collective Synthesis of 4â€Hydroxyâ€2â€pyridone Alkaloids and Their Antiproliferation Activities. Chemistry - an Asian Journal, 2014, 9, 2548-2554.	3.3	23
50	Directed Orthometalation and the Asymmetric Total Synthesis of N-Deoxymilitarinone A and Torrubiellone B. Organic Letters, 2014, 16, 26-29.	4.6	23
51	Asymmetric syntheses of 8-oxabicyclo[3,2,1]octane and 11-oxatricyclo[5.3.1.0]undecane from glycals. Chemical Science, 2017, 8, 6656-6661.	7.4	22
52	Key residues of the receptor binding domain in the spike protein of SARS-CoV-2 mediating the interactions with ACE2: a molecular dynamics study. Nanoscale, 2021, 13, 9364-9370.	5.6	22
53	Pathways leading to 3-amino- and 3-nitro-2,3-dideoxy sugars: strategies and synthesis. RSC Advances, 2013, 3, 13594.	3.6	21
54	Fabrication of O (dye)-terminated anatase TiO2 nanosheets for dye sensitized solar cells. Energy and Environmental Science, 2011, 4, 2054.	30.8	20

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55	The first intermolecular interrupted imino-Nazarov reaction: expeditious access to carbocyclic nucleoside analogues. Chemical Science, 2016, 7, 1100-1103.	7.4	20
56	Pd-catalyzed cross-coupling of aromatic compounds with carboxylic acids via Câ€“H bond activation. Organic Chemistry Frontiers, 2015, 2, 502-505.	4.5	18
57	Diastereoselective Synthesis ofC-Vinyl Glycosides via Gold(I)-Catalyzed Tandem 1,3-Acyloxy Migration/Ferrier Rearrangement. Organic Letters, 2018, 20, 16-19.	4.6	18
58	Oxadiazabicyclooctenone as a versatile monomer for the construction of pH sensitive functional polymers via ROMP. Polymer Chemistry, 2018, 9, 372-377.	3.9	18
59	Superbase-Catalyzed Stereo- and Regioselective Glycosylation with 2-Nitroglycals: Facile Access to 2-Amino-2-deoxy-O-glycosides. ACS Catalysis, 2020, 10, 6707-6715.	11.2	18
60	Interrupting Nazarov Reaction with Different Trapping Modality: Utilizing Potassium Alkynyltrifluoroborate as a Ïƒ-Nucleophile. Organic Letters, 2016, 18, 4458-4461.	4.6	17
61	Ferrier-Type N-Glycosylation: Synthesis of N-Glycosides of Enone Sugars. Journal of Organic Chemistry, 2013, 78, 1293-1299.	3.2	16
62	Regio and stereoselective synthesis of Î²-keto functionalized C-glycosides via iron catalyzed Ferrier rearrangement reactions. RSC Advances, 2014, 4, 34816-34822.	3.6	15
63	NHC catalyzed enantioselective Coates-Claisen rearrangement: a rapid access to the dihydropyran core for oleuropein based secoiridoids. New Journal of Chemistry, 2018, 42, 1832-1839.	2.8	15
64	Raman-encoded, multivalent glycan-nanoconjugates for traceable specific binding and killing of bacteria. Biomaterials Science, 2018, 6, 1339-1346.	5.4	14
65	Direct and Stereoselective Synthesis of 1,3-cis-3- Arylsulphonaminodeoxydisaccharides and Oligosaccharides. Journal of Organic Chemistry, 2012, 77, 5245-5254.	3.2	13
66	Cascade reactions initiated by radical addition of tetrahydrofuran to Î²-bromonitrostyrenes. RSC Advances, 2014, 4, 45191-45197.	3.6	12
67	Iridium-promoted deoxyglycoside synthesis: stereoselectivity and mechanistic insight. Chemical Science, 2021, 12, 2209-2216.	7.4	12
68	A concise route to the highly-functionalized azetidine precursor: the enantioselective synthesis of penaresidin B. Chemical Communications, 2015, 51, 4639-4642.	4.1	11
69	(1â€aryloxyâ€2â€hydroxypropyl)â€phenylpiperazine derivatives suppress Candida albicans virulence by interfering with morphological transition. Microbial Biotechnology, 2018, 11, 1080-1089.	4.2	11
70	ZnI₂-Directed Stereocontrolled Î±-Glucosylation. Organic Letters, 2021, 23, 6841-6845.	4.6	11
71	Suprafenacine, an Indazole-Hydrazide Agent, Targets Cancer Cells Through Microtubule Destabilization. PLoS ONE, 2014, 9, e110955.	2.5	10
72	Zinc(II) Iodide-Directed Î²-Mannosylation: Reaction Selectivity, Mode, and Application. Journal of Organic Chemistry, 2021, 86, 16901-16915.	3.2	8

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73	Synthesis and biological activity of novel peptide mimetics as melanocortin receptor agonists. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 1223-1228.	2.2	7
74	Polysubstituted pyrrole derivatives via 1,2-alkenyl migration of novel Î³-amino-Î±,Î²-unsaturated aldehydes and Î±-diazocarbonyls. RSC Advances, 2014, 4, 7275.	3.6	7
75	Alkene Synthesis Using Phosphonium Ylides as Umpolung Reagents. Asian Journal of Organic Chemistry, 2019, 8, 93-96.	2.7	7
76	Palladium(<scp>ii</scp>)-catalyzed stereoselective synthesis of C-glycosides from glycals with diaryliodonium salts. Organic and Biomolecular Chemistry, 2020, 18, 2242-2251.	2.8	7
77	Synthetic biohybrid peptidoglycan oligomers enable pan-bacteria-specific labeling and imaging: in vitro and in vivo. Chemical Science, 2020, 11, 3171-3179.	7.4	7
78	Design and synthesis of multivalent neoglycoconjugates by click conjugations. Beilstein Journal of Organic Chemistry, 2014, 10, 1325-1332.	2.2	6
79	Recent Development in Ligation Methods for Glycopeptide and Glycoprotein Synthesis. Chemistry - an Asian Journal, 2020, 15, 2548-2557.	3.3	6
80	A mild one-pot synthesis of 2-iminothiazolines from thioureas and 1-bromo-1-nitroalkenes. RSC Advances, 2021, 11, 2221-2225.	3.6	5
81	Catalytic asymmetric oxidative carbonylation-induced kinetic resolution of sterically hindered benzylamines to chiral isoindolinones. Chemical Communications, 2021, 57, 1778-1781.	4.1	5
82	Easy access to secondary and tertiary alcohols via metal-free and light mediated radical carbonyl allylation. Chemical Communications, 2021, 57, 10783-10786.	4.1	5
83	Nâ€Linked Glycosyl Auxiliaryâ€Mediated Native Chemical Ligation on Aspartic Acid: Application towards Nâ€Glycopeptide Synthesis. Angewandte Chemie, 2016, 128, 10519-10523.	2.0	4
84	Oneâ€Pot Cascade Transformation of Glucal into Structurally Diverse Drugâ€Like Scaffolds. Chemistry - an Asian Journal, 2019, 14, 4024-4030.	3.3	4
85	The versatility of carbohydrates in antimicrobial applications. Journal of the Chinese Chemical Society, 2020, 67, 2204-2207.	1.4	3
86	Antimicrobial Carbohydrate-Based Macromolecules: Their Structures and Activities. Journal of Organic Chemistry, 2020, 85, 15827-15836.	3.2	2