

Xue-Wei Liu

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Iridium-promoted deoxyglycoside synthesis: stereoselectivity and mechanistic insight. <i>Chemical Science</i> , 2021, 12, 2209-2216.	7.4	12
2	A mild one-pot synthesis of 2-iminothiazolines from thioureas and 1-bromo-1-nitroalkenes. <i>RSC Advances</i> , 2021, 11, 2221-2225.	3.6	5
3	Key residues of the receptor binding domain in the spike protein of SARS-CoV-2 mediating the interactions with ACE2: a molecular dynamics study. <i>Nanoscale</i> , 2021, 13, 9364-9370.	5.6	22
4	Zn ₂ -Directed Stereocontrolled $\hat{1}$ -Glucosylation. <i>Organic Letters</i> , 2021, 23, 6841-6845.	4.6	11
5	Catalytic asymmetric oxidative carbonylation-induced kinetic resolution of sterically hindered benzylamines to chiral isoindolinones. <i>Chemical Communications</i> , 2021, 57, 1778-1781.	4.1	5
6	Easy access to secondary and tertiary alcohols via metal-free and light mediated radical carbonyl allylation. <i>Chemical Communications</i> , 2021, 57, 10783-10786.	4.1	5
7	Zinc(II) Iodide-Directed $\hat{2}$ -Mannosylation: Reaction Selectivity, Mode, and Application. <i>Journal of Organic Chemistry</i> , 2021, 86, 16901-16915.	3.2	8
8	The versatility of carbohydrates in antimicrobial applications. <i>Journal of the Chinese Chemical Society</i> , 2020, 67, 2204-2207.	1.4	3
9	Antimicrobial Carbohydrate-Based Macromolecules: Their Structures and Activities. <i>Journal of Organic Chemistry</i> , 2020, 85, 15827-15836.	3.2	2
10	Superbase-Catalyzed Stereo- and Regioselective Glycosylation with 2-Nitroglycols: Facile Access to 2-Amino-2-deoxy- <i>O</i> -glycosides. <i>ACS Catalysis</i> , 2020, 10, 6707-6715.	11.2	18
11	Palladium-catalyzed stereoselective synthesis of <i>C</i> -glycosides from glycols with diaryliodonium salts. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 2242-2251.	2.8	7
12	Recent Development in Ligation Methods for Glycopeptide and Glycoprotein Synthesis. <i>Chemistry - an Asian Journal</i> , 2020, 15, 2548-2557.	3.3	6
13	Synthetic biohybrid peptidoglycan oligomers enable pan-bacteria-specific labeling and imaging: <i>in vitro</i> and <i>in vivo</i> . <i>Chemical Science</i> , 2020, 11, 3171-3179.	7.4	7
14	Multifunctional Glyco-Nanosheets to Eradicate Drug-Resistant Bacteria on Wounds. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000265.	7.6	33
15	PGE1 and PGA1 bind to Nurr1 and activate its transcriptional function. <i>Nature Chemical Biology</i> , 2020, 16, 876-886.	8.0	51
16	Visible-Light Photoredox Enables Ketone Carbonyl Alkylation for Easy Access to Tertiary Alcohols. <i>ACS Catalysis</i> , 2019, 9, 9009-9014.	11.2	32
17	One-Pot Cascade Transformation of Glucal into Structurally Diverse Drug-Like Scaffolds. <i>Chemistry - an Asian Journal</i> , 2019, 14, 4024-4030.	3.3	4
18	Enantiomeric glycosylated cationic block co-beta-peptides eradicate <i>Staphylococcus aureus</i> biofilms and antibiotic-tolerant persisters. <i>Nature Communications</i> , 2019, 10, 4792.	12.8	88

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19	Stereo- and regioselective glycosylation with protection-less sugar derivatives: an alluring strategy to access glycans and natural products. <i>Chemical Society Reviews</i> , 2019, 48, 4006-4018.	38.1	31
20	Metal-free visible light photoredox enables generation of carbyne equivalents <i>via</i> phosphonium ylide C-H activation. <i>Chemical Science</i> , 2019, 10, 1687-1691.	7.4	25
21	Synthesis of Antibacterial Glycosylated Polycaprolactones Bearing Imidazoliums with Reduced Hemolytic Activity. <i>Biomacromolecules</i> , 2019, 20, 949-958.	5.4	36
22	Recent advances in reagent-controlled stereoselective/stereospecific glycosylation. <i>Carbohydrate Research</i> , 2019, 473, 72-81.	2.3	44
23	Alkene Synthesis Using Phosphonium Ylides as Umpolung Reagents. <i>Asian Journal of Organic Chemistry</i> , 2019, 8, 93-96.	2.7	7
24	Recent progress of <i>C</i> -glycosylation methods in the total synthesis of natural products and pharmaceuticals. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 1791-1806.	2.8	101
25	Venturing beyond Donor-Controlled Glycosylation: New Perspectives toward Anomeric Selectivity. <i>Accounts of Chemical Research</i> , 2018, 51, 628-639.	15.6	106
26	Raman-encoded, multivalent glycan-nanoconjugates for traceable specific binding and killing of bacteria. <i>Biomaterials Science</i> , 2018, 6, 1339-1346.	5.4	14
27	Diastereoselective Synthesis of <i>C</i> -Vinyl Glycosides via Gold(I)-Catalyzed Tandem 1,3-Acyloxy Migration/Ferrier Rearrangement. <i>Organic Letters</i> , 2018, 20, 16-19.	4.6	18
28	Oxadiazabicyclooctenone as a versatile monomer for the construction of pH sensitive functional polymers <i>via</i> ROMP. <i>Polymer Chemistry</i> , 2018, 9, 372-377.	3.9	18
29	NHC catalyzed enantioselective Coates-Claisen rearrangement: a rapid access to the dihydropyran core for oleuropein based secoiridoids. <i>New Journal of Chemistry</i> , 2018, 42, 1832-1839.	2.8	15
30	(1-aryloxy-2-hydroxypropyl)-phenylpiperazine derivatives suppress <i>Candida albicans</i> virulence by interfering with morphological transition. <i>Microbial Biotechnology</i> , 2018, 11, 1080-1089.	4.2	11
31	Palladium-Catalyzed Decarboxylative Allylation/Wittig Reaction: Substrate-Controlled Synthesis of <i>C</i> -Vinyl Glycosides. <i>Organic Letters</i> , 2017, 19, 416-419.	4.6	26
32	Stimuli-responsive multifunctional glyconanoparticle platforms for targeted drug delivery and cancer cell imaging. <i>Chemical Science</i> , 2017, 8, 3980-3988.	7.4	38
33	3-Aminodeoxyribose in Glycosylation: Diversity-Oriented Synthesis and Assembly in Oligosaccharides. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5227-5231.	13.8	55
34	A minimalist approach to stereoselective glycosylation with unprotected donors. <i>Nature Communications</i> , 2017, 8, 1146.	12.8	27
35	Nanoparticles of Short Cationic Peptidopolysaccharide Self-Assembled by Hydrogen Bonding with Antibacterial Effect against Multidrug-Resistant Bacteria. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 38288-38303.	8.0	67
36	Direct Aldehyde Csp ² H Functionalization through Visible-Light-Mediated Photoredox Catalysis. <i>Chemistry - A European Journal</i> , 2017, 23, 15899-15902.	3.3	50

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37	Catalyst-Controlled Stereoselective <i>O</i> -Glycosylation: Pd(0) vs Pd(II). ACS Catalysis, 2017, 7, 5456-5460.	11.2	42
38	Asymmetric syntheses of 8-oxabicyclo[3,2,1]octane and 11-oxatricyclo[5.3.1.0]undecane from glycols. Chemical Science, 2017, 8, 6656-6661.	7.4	22
39	Interrupting Nazarov Reaction with Different Trapping Modality: Utilizing Potassium Alkynyltrifluoroborate as a β -Nucleophile. Organic Letters, 2016, 18, 4458-4461.	4.6	17
40	<i>N</i> -Linked Glycosyl Auxiliary-Mediated Native Chemical Ligation on Aspartic Acid: Application towards <i>N</i> -Glycopeptide Synthesis. Angewandte Chemie, 2016, 128, 10519-10523.	2.0	4
41	The first intermolecular interrupted imino-Nazarov reaction: expeditious access to carbocyclic nucleoside analogues. Chemical Science, 2016, 7, 1100-1103.	7.4	20
42	Reversing the Stereoselectivity of a Palladium-Catalyzed <i>O</i> -Glycosylation through an Inner-Sphere or Outer-Sphere Pathway. Angewandte Chemie - International Edition, 2015, 54, 604-607.	13.8	40
43	Palladium-Catalyzed Stereoselective <i>C</i> -Glycosylation of Glycols with Sodium Arylsulfonates. European Journal of Organic Chemistry, 2015, 2015, 949-952.	2.4	24
44	Palladium-Catalyzed Glycosylation: Novel Synthetic Approach to Diverse <i>N</i> -Heterocyclic Glycosides. Organic Letters, 2015, 17, 1357-1360.	4.6	30
45	A concise route to the highly-functionalized azetidine precursor: the enantioselective synthesis of penaresidin B. Chemical Communications, 2015, 51, 4639-4642.	4.1	11
46	Pd-catalyzed cross-coupling of aromatic compounds with carboxylic acids via C-H bond activation. Organic Chemistry Frontiers, 2015, 2, 502-505.	4.5	18
47	Design and synthesis of multivalent neoglycoconjugates by click conjugations. Beilstein Journal of Organic Chemistry, 2014, 10, 1325-1332.	2.2	6
48	Collective Synthesis of 4-Hydroxy-2-pyridone Alkaloids and Their Antiproliferation Activities. Chemistry - an Asian Journal, 2014, 9, 2548-2554.	3.3	23
49	Facile Access to <i>cis</i> -2,6-Disubstituted Tetrahydropyrans by Palladium-Catalyzed Decarboxylative Allylation: Total Syntheses of (\pm) -Centrolobine and $(+)$ -Decytopolides A and B. Chemistry - A European Journal, 2014, 20, 405-409.	3.3	28
50	Directed Orthometalation and the Asymmetric Total Synthesis of <i>N</i> -Deoxymilitarinone A and Torrubiellone B. Organic Letters, 2014, 16, 26-29.	4.6	23
51	Stereocontrolled <i>O</i> -Glycosylation with Palladium-Catalyzed Decarboxylative Allylation. Journal of Organic Chemistry, 2014, 79, 11473-11482.	3.2	27
52	One-pot synthesis of β -N-glycosyl imidazole analogues via a palladium-catalysed decarboxylative allylation. Chemical Communications, 2014, 50, 4222.	4.1	28
53	Polysubstituted pyrrole derivatives via 1,2-alkenyl migration of novel β -amino- β , γ -unsaturated aldehydes and β -diazocarbonyls. RSC Advances, 2014, 4, 7275.	3.6	7
54	A highly efficient dual catalysis approach for C-glycosylation: addition of (<i>o</i> -azaaryl)carboxaldehyde to glycols. Chemical Communications, 2014, 50, 13391-13393.	4.1	38

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55	Cascade reactions initiated by radical addition of tetrahydrofuran to \hat{I}^2 -bromonitrostyrenes. RSC Advances, 2014, 4, 45191-45197.	3.6	12
56	Interrupted Imino \hat{N} -Nazarov Cyclization of 1 \hat{A} -Aminopentadienyl Cation and Related Cascade Process. Angewandte Chemie - International Edition, 2014, 53, 10742-10746.	13.8	40
57	The intriguing dual-directing effect of 2-cyanobenzyl ether for a highly stereospecific glycosylation reaction. Nature Communications, 2014, 5, 5051.	12.8	83
58	Regio and stereoselective synthesis of \hat{I}^2 -keto functionalized C-glycosides via iron catalyzed Ferrier rearrangement reactions. RSC Advances, 2014, 4, 34816-34822.	3.6	15
59	Suprafenacine, an Indazole-Hydrazide Agent, Targets Cancer Cells Through Microtubule Destabilization. PLoS ONE, 2014, 9, e110955.	2.5	10
60	Oxidative Heck Reaction of Glycals and Aryl Hydrazines: A Palladium-Catalyzed $\langle i \rangle C \langle /i \rangle$ -Glycosylation. Journal of Organic Chemistry, 2013, 78, 8821-8825.	3.2	87
61	Lewis acid \hat{C} -surfactant-combined catalyzed synthesis of 4-aminocyclopentenones from glycals in water. Green Chemistry, 2013, 15, 3180.	9.0	24
62	Pathways leading to 3-amino- and 3-nitro-2,3-dideoxy sugars: strategies and synthesis. RSC Advances, 2013, 3, 13594.	3.6	21
63	Ferrier-Type N-Glycosylation: Synthesis of N-Glycosides of Enone Sugars. Journal of Organic Chemistry, 2013, 78, 1293-1299.	3.2	16
64	Stereoselective $\hat{I}^2 \hat{A} \langle i \rangle C \langle /i \rangle \hat{A}$ -Glycosylation by a Palladium \hat{C} -Catalyzed Decarboxylative Allylation: Formal Synthesis of Aspergillide \hat{A} ...A. Angewandte Chemie - International Edition, 2013, 52, 5134-5137.	13.8	69
65	$\hat{I}^2 \hat{A}$ -Type Glycosidic Bond Formation by Palladium \hat{C} -Catalyzed Decarboxylative Allylation. Chemistry - A European Journal, 2013, 19, 14047-14051.	3.3	32
66	Direct and Stereoselective Synthesis of 1,3- $\langle i \rangle cis \langle /i \rangle$ -3-Arylsulphonaminodeoxydisaccharides and Oligosaccharides. Journal of Organic Chemistry, 2012, 77, 5245-5254.	3.2	13
67	N-Heterocyclic Carbene Catalyzed $\langle i \rangle C \langle /i \rangle$ -Glycosylation: A Concise Approach from Stetter Reaction. Organic Letters, 2012, 14, 174-177.	4.6	45
68	Design of a \hat{C} -Turn-Off/Turn-On \hat{C} -Biosensor: Understanding Carbohydrate-Lectin Interactions for Use in Noncovalent Drug Delivery. Journal of the American Chemical Society, 2012, 134, 15229-15232.	13.7	72
69	N \hat{A} -Heterocyclic Carbene Catalyzed Homo-enolate \hat{C} -Addition Reaction of Enals and Nitroalkenes: Asymmetric Synthesis of 5 \hat{A} -Carbon \hat{C} -Synthon $\hat{I}^2 \hat{A}$ -Nitroesters. Angewandte Chemie - International Edition, 2012, 51, 8276-8280.	13.8	65
70	Glycosylated porphyrin derivatives and their photodynamic activity in cancer cells. MedChemComm, 2011, 2, 371.	3.4	31
71	Aryl/hetero-arylethylene bridged dyes: the effect of planar \hat{I} -bridge on the performance of dye-sensitized solar cells. New Journal of Chemistry, 2011, 35, 127-136.	2.8	40
72	Fabrication of O (dye)-terminated anatase TiO ₂ nanosheets for dye sensitized solar cells. Energy and Environmental Science, 2011, 4, 2054.	30.8	20

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73	Palladium Catalyzed Stereoselective <i>C</i> -Glycosylation of Glycals with Enol Triflates. <i>Organic Letters</i> , 2011, 13, 5648-5651.	4.6	27
74	Regio- and Stereoselective Synthesis of 2-Deoxy- <i>C</i> -aryl Glycosides via Palladium Catalyzed Decarboxylative Reactions. <i>Organic Letters</i> , 2011, 13, 4608-4611.	4.6	83
75	A Short and Highly Efficient Synthesis of <i>l</i> -Ristosamine and <i>l</i> - <i>epi</i> -Daunosamine Glycosides. <i>Organic Letters</i> , 2011, 13, 652-655.	4.6	38
76	N-Heterocyclic Carbene-Mediated Oxidative Esterification of Aldehydes: Ester Formation and Mechanistic Studies. <i>Journal of Organic Chemistry</i> , 2011, 76, 3016-3023.	3.2	109
77	Direct <i>C</i> -Glycosylation of Organotrifluoroborates with Glycosyl Fluorides and Its Application to the Total Synthesis of (+)-Varitriol. <i>Organic Letters</i> , 2011, 13, 42-45.	4.6	92
78	Green glycosylation promoted by reusable biomass carbonaceous solid acid: an easy access to β -stereoselective terpene galactosides. <i>Green Chemistry</i> , 2011, 13, 573.	9.0	28
79	N-Heterocyclic Carbene Catalyzed Intramolecular Hydroacylation of Activated Alkynes: Synthesis of Chromones. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 219-225.	4.3	58
80	Total Synthesis of Sialic Acid by a Sequential Rhodium-Catalyzed Aziridination and Barbier Allylation of <i>D</i> -Glycal. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 12054-12057.	13.8	31
81	Mechanistic Insights into the Substrate-Controlled Stereochemistry of Glycals in One-Pot Rhodium-Catalyzed Aziridination and Aziridine Ring Opening. <i>Chemistry - A European Journal</i> , 2010, 16, 588-594.	3.3	53
82	Sugar-Based Synthesis of Tamiflu and Its Inhibitory Effects on Cell Secretion. <i>Chemistry - A European Journal</i> , 2010, 16, 4533-4540.	3.3	48
83	N-Heterocyclic Carbene-Catalyzed Intramolecular Aldehyde-Nitrile Cross Coupling: An Easy Access to 3-Aminochromones. <i>Organic Letters</i> , 2010, 12, 352-355.	4.6	58
84	Highly stereoselective synthesis of aminoglycosides via rhodium-catalyzed and substrate-controlled aziridination of glycals. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 1284.	2.8	46
85	Synthesis and biological activity of novel peptide mimetics as melanocortin receptor agonists. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 1223-1228.	2.2	7
86	An efficient synthesis of chiral phosphinyl oxide pyrrolidines and their application to asymmetric direct aldol reactions. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 3997.	2.8	49