

Shang-Cheng Hung

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

69
papers

3,501
citations

31
h-index

59
g-index

72
ext. papers

3,857
ext. citations

9.1
avg, IF

5.06
L-index

#	Paper	IF	Citations
69	Regioselective one-pot protection of carbohydrates. <i>Nature</i> , 2007 , 446, 896-9	50.4	315
68	Metal catalyzed diazo transfer for the synthesis of azides from amines. <i>Tetrahedron Letters</i> , 1996 , 37, 6029-6032	2	303
67	Toward automated oligosaccharide synthesis. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 11872-11873	20.2	215
66	Design and Synthesis of New Aminoglycoside Antibiotics Containing Neamine as an Optimal Core Structure: Correlation of Antibiotic Activity with in Vitro Inhibition of Translation. <i>Journal of the American Chemical Society</i> , 1999 , 121, 6527-6541	16.4	206
65	"One-Pot" Protection, Glycosylation, and Protection-Glycosylation Strategies of Carbohydrates. <i>Chemical Reviews</i> , 2018 , 118, 8025-8104	68.1	139
64	Synthesis of 3-O-sulfonated heparan sulfate octasaccharides that inhibit the herpes simplex virus type 1 host-cell interaction. <i>Nature Chemistry</i> , 2011 , 3, 557-63	17.6	138
63	Synthesis of heparin oligosaccharides. <i>Journal of the American Chemical Society</i> , 2004 , 126, 476-7	16.4	135
62	A New Method for the Synthesis of Fluoro-Carbohydrates and Glycosides Using Selectfluor. <i>Journal of the American Chemical Society</i> , 1997 , 119, 11743-11746	16.4	129
61	Cu(OTf) ₂ as an efficient and dual-purpose catalyst in the regioselective reductive ring opening of benzylidene acetals. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 1665-8	16.4	127
60	Facile Cu(OTf) ₂ -catalyzed preparation of per-O-acetylated hexopyranoses with stoichiometric acetic anhydride and sequential one-pot anomeric substitution to thioglycosides under solvent-free conditions. <i>Journal of Organic Chemistry</i> , 2003 , 68, 8719-22	4.2	106
59	Small Molecules as Structural and Functional Mimics of Sialyl Lewis X Tetrasaccharide in Selectin Inhibition: A Remarkable Enhancement of Inhibition by Additional Negative Charge and/or Hydrophobic Group. <i>Journal of the American Chemical Society</i> , 1997 , 119, 8152-8158	16.4	92
58	β-Glycosylation by D-glucosamine-derived donors: synthesis of heparosan and heparin analogues that interact with mycobacterial heparin-binding hemagglutinin. <i>Journal of the American Chemical Society</i> , 2012 , 134, 8988-95	16.4	82
57	Regioselective one-pot protection of glucose. <i>Nature Protocols</i> , 2008 , 3, 97-113	18.8	82
56	Synthesis of 48 disaccharide building blocks for the assembly of a heparin and heparan sulfate oligosaccharide library. <i>Organic Letters</i> , 2006 , 8, 5995-8	6.2	81
55	Metal trifluoromethanesulfonate-catalyzed regioselective borane-reductive ring opening of benzylidene acetals: a concise synthesis of 1,4-dideoxy-1,4-imino-L-xylitol. <i>Organic Letters</i> , 2002 , 4, 847-9	6.2	79
54	Divergent synthesis of 48 heparan sulfate-based disaccharides and probing the specific sugar-fibroblast growth factor-1 interaction. <i>Journal of the American Chemical Society</i> , 2012 , 134, 20722-7	16.4	73
53	Acyl and silyl group effects in reactivity-based one-pot glycosylation: synthesis of embryonic stem cell surface carbohydrates Lc4 and IV(2)Fuc-Lc4. <i>Journal of the American Chemical Society</i> , 2012 , 134, 4549-52	16.4	61

52	Synthesis of the heparin-based anticoagulant drug fondaparinux. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 9876-9	16.4	60
51	Enhanced control of Mycobacterium tuberculosis extrapulmonary dissemination in mice by an arabinomannan-protein conjugate vaccine. <i>PLoS Pathogens</i> , 2017 , 13, e1006250	7.6	56
50	Identification of existing pharmaceuticals and herbal medicines as inhibitors of SARS-CoV-2 infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	56
49	Insights into Interactions of Mycobacteria with the Host Innate Immune System from a Novel Array of Synthetic Mycobacterial Glycans. <i>ACS Chemical Biology</i> , 2017 , 12, 2990-3002	4.9	52
48	Regioselective one-pot protection of D-glucosamine. <i>Journal of Organic Chemistry</i> , 2010 , 75, 7424-7	4.2	51
47	Samarium Diodide Mediated Coupling of Glycosyl Phosphates with Carbon Radical or Anion Acceptors/Synthesis of C-Glycosides. <i>Angewandte Chemie International Edition in English</i> , 1996 , 35, 2671-2674		46
46	Synthesis of heparin oligosaccharides and their interaction with eosinophil-derived neurotoxin. <i>Organic and Biomolecular Chemistry</i> , 2012 , 10, 760-72	3.9	43
45	Glycan sulfation patterns define autophagy flux at axon tip via PTPRCortactin axis. <i>Nature Chemical Biology</i> , 2019 , 15, 699-709	11.7	42
44	One-pot strategies for the synthesis of the tetrasaccharide linkage region of proteoglycans. <i>Organic Letters</i> , 2011 , 13, 1506-9	6.2	41
43	Synthetic heparin and heparan sulfate oligosaccharides and their protein interactions. <i>Current Opinion in Chemical Biology</i> , 2013 , 17, 1023-9	9.7	39
42	Atomic Details of the Interactions of Glycosaminoglycans with Amyloid- β Fibrils. <i>Journal of the American Chemical Society</i> , 2016 , 138, 8328-31	16.4	38
41	Characterization of molecular interactions between eosinophil cationic protein and heparin. <i>Journal of Biological Chemistry</i> , 2008 , 283, 25468-25474	5.4	34
40	Recent Advances in the Applications of D- and L-Form 1,6- Anhydrohexopyranoses for the Synthesis of Oligosaccharides and Nature Products. <i>Current Organic Chemistry</i> , 2004 , 8, 475-509	1.7	32
39	Regioselective one-pot protection, protection-glycosylation and protection-glycosylation-glycosylation of carbohydrates: a case study with D-glucose. <i>Organic and Biomolecular Chemistry</i> , 2014 , 12, 376-82	3.9	31
38	Microwave-assisted one-pot synthesis of 1,6-anhydrosugars and orthogonally protected thioglycosides. <i>Journal of the American Chemical Society</i> , 2014 , 136, 14425-31	16.4	31
37	Regioselective and stereoselective benzylidene installation and one-pot protection of D-mannose. <i>Organic and Biomolecular Chemistry</i> , 2013 , 11, 2605-12	3.9	29
36	Synthesis of mycobacterial triacylated phosphatidylinositol dimannoside containing an acyl lipid chain at 3-O of inositol. <i>Organic Letters</i> , 2010 , 12, 2618-21	6.2	29
35	Total synthesis of phosphatidylinositol dimannoside: a cell-envelope component of Mycobacterium tuberculosis. <i>Chemistry - A European Journal</i> , 2009 , 15, 1091-4	4.8	29

34	An integrated microfluidic system for rapid detection and multiple subtyping of influenza A viruses by using glycan-coated magnetic beads and RT-PCR. <i>Lab on A Chip</i> , 2019 , 19, 1277-1286	7.2	28
33	Synthesis of alginate oligosaccharides containing L-guluronic acids. <i>Chemistry - an Asian Journal</i> , 2009 , 4, 386-90	4.5	28
32	Cu(OTf) ₂ as an Efficient and Dual-Purpose Catalyst in the Regioselective Reductive Ring Opening of Benzylidene Acetals. <i>Angewandte Chemie</i> , 2005 , 117, 1693-1696	3.6	25
31	Metal Trifluoromethanesulfonate-Catalyzed Regioselective Reductive Ring Opening of Benzylidene Acetals. <i>Journal of the Chinese Chemical Society</i> , 2009 , 56, 510-523	1.5	24
30	A Highly diastereoselective synthesis of (1R)-(+)-camphor-based chiral allenes and their asymmetric hydroboration-oxidation reactions. <i>Journal of Organic Chemistry</i> , 2002 , 67, 1308-13	4.2	24
29	Total synthesis of tetraacylated phosphatidylinositol hexamannoside and evaluation of its immunomodulatory activity. <i>Nature Communications</i> , 2015 , 6, 7239	17.4	21
28	Cellular interaction and cytotoxicity of the iowa mutation of apolipoprotein A-I (ApoA-IIowa) amyloid mediated by sulfate moieties of heparan sulfate. <i>Journal of Biological Chemistry</i> , 2015 , 290, 24210-21	5.4	21
27	One-pot synthesis of N-acetyl- and N-glycolylneuraminic acid capped trisaccharides and evaluation of their influenza A(H1 N1) inhibition. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 2413-6	16.4	20
26	Interactions that influence the binding of synthetic heparan sulfate based disaccharides to fibroblast growth factor-2. <i>ACS Chemical Biology</i> , 2014 , 9, 1712-7	4.9	19
25	Regioselective one-pot protection and protection-glycosylation of carbohydrates. <i>Chimia</i> , 2011 , 65, 54-81.3	1.3	19
24	Structure of the Complex between a Heparan Sulfate Octasaccharide and Mycobacterial Heparin-Binding Hemagglutinin. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 4192-4196	16.4	18
23	Synthesis of Biologically Potent β 1- α -Linked Disaccharide Derivatives via Regioselective One-Pot Protection-Glycosylation. <i>Angewandte Chemie</i> , 2002 , 114, 2466-2468	3.6	17
22	Regioselective and stereoselective benzylation of 2-N-protected 4,6-O-ketal derivatives of D-glucosamines with 1-(benzyloxy)benzotriazole. <i>Carbohydrate Research</i> , 2001 , 330, 177-82	2.9	16
21	One-Pot Methods for the Protection and Assembly of Sugars. <i>Israel Journal of Chemistry</i> , 2015 , 55, 347-359	3.4	14
20	2-Allylphenyl glycosides as glycosyl donors for sugar coupling. <i>Carbohydrate Research</i> , 2012 , 352, 197-201.9	1.9	14
19	Synthesis of the Heparin-Based Anticoagulant Drug Fondaparinux. <i>Angewandte Chemie</i> , 2014 , 126, 10034-10037.2	3.4	14
18	Metal trifluoromethanesulfonate-catalyzed regioselective acylation of myo-inositol 1,3,5-orthoformate. <i>Chemical Communications</i> , 2010 , 46, 5524-6	5.8	11
17	Biologically Potent L-Hexoses and 6-Deoxy-L-Hexoses: Their Syntheses and Applications. <i>Journal of the Chinese Chemical Society</i> , 2004 , 51, 1193-1200	1.5	11

16	Efficient Synthesis of 1,2,3,4,6-Penta-O-acetyl-L-idopyranose. <i>Journal of the Chinese Chemical Society</i> , 2000 , 47, 1257-1262	1.5	9
15	Structural analysis of synthetic heparan sulfate oligosaccharides with fibroblast growth factors and heparin-binding hemagglutinin. <i>Current Opinion in Structural Biology</i> , 2018 , 50, 126-133	8.1	8
14	Practical Remdesivir Synthesis through One-Pot Organocatalyzed Asymmetric ()-P-Phosphoramidation. <i>Journal of Organic Chemistry</i> , 2021 , 86, 4977-4985	4.2	8
13	Yb(OTf)-Catalyzed Desymmetrization of myo-Inositol 1,3,5-Orthoformate and Its Application in the Synthesis of Chiral Inositol Phosphates. <i>Journal of Organic Chemistry</i> , 2017 , 82, 11418-11430	4.2	5
12	Double Michael Additions of Lithium Enolate of 1,4-Dioxaspiro[4.5]dec-6-en-8-One to Acrylates. <i>Journal of the Chinese Chemical Society</i> , 1994 , 41, 191-194	1.5	5
11	Concise and Reliable Syntheses of Glycodendrimers via Self-Activating Click Chemistry: A Robust Strategy for Mimicking Multivalent Glycan-Pathogen Interactions. <i>Journal of Organic Chemistry</i> , 2020 , 85, 16014-16023	4.2	5
10	Synthesis of hyaluronic acid oligosaccharides with a GlcNAc-GlcA repeating pattern and their binding affinity with CD44. <i>Organic and Biomolecular Chemistry</i> , 2020 , 18, 5370-5387	3.9	3
9	STRATEGIES FOR ONE-POT SYNTHESIS OF OLIGOSACCHARIDES 2016 , 155-187		2
8	Synthesis of a Furanosyl-pyranone Derivative Related to the Tri-O-heterocyclic Core of Herbicidins. <i>Journal of the Chinese Chemical Society</i> , 2012 , 59, 421-425	1.5	2
7	Diels-Alder Reactions and Synthetic Application of 8-Trimethylsilyloxy-1,4-dioxaspiro[4.5]deca-6,8-diene. A Formal Synthesis of (⊕)-Compaclin. <i>Journal of the Chinese Chemical Society</i> , 1994 , 41, 817-828	1.5	2
6	The Accumulation of Heparan Sulfate S-Domains in Kidney Transthyretin Deposits Accelerates Fibril Formation and Promotes Cytotoxicity. <i>American Journal of Pathology</i> , 2019 , 189, 308-319	5.8	2
5	Structure of the Complex between a Heparan Sulfate Octasaccharide and Mycobacterial Heparin-Binding Hemagglutinin. <i>Angewandte Chemie</i> , 2017 , 129, 4256-4260	3.6	1
4	Trisaccharide Sulfate and Its Sulfonamide as an Effective Substrate and Inhibitor of Human Endo-sulfatase-1. <i>Journal of the American Chemical Society</i> , 2020 , 142, 5282-5292	16.4	1
3	Synthesis of Sulfated Glycans 2015 , 365-371		1
2	Single-Step Per-O-Sulfonation of Sugar Oligomers with Concomitant 1,6-Anhydro Bridge Formation for Binding Fibroblast Growth Factors. <i>ChemBioChem</i> , 2019 , 20, 237-240	3.8	1
1	Byproduct formation during the biosynthesis of spinosyn A and evidence for an enzymatic interplay to prevent its formation. <i>Tetrahedron</i> , 2022 , 103, 132569	2.4	0