

Chang-Chun Ling

List of Publications by Year in descending order

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63
papers

1,518
citations

304602

22
h-index

345118

36
g-index

67
all docs

67
docs citations

67
times ranked

1720
citing authors

#	ARTICLE	IF	CITATIONS
1	An inhibitor of chondroitin sulfate proteoglycan synthesis promotes central nervous system remyelination. <i>Nature Communications</i> , 2016, 7, 11312.	5.8	167
2	Thiooligosaccharide Conjugate Vaccines Evoke Antibodies Specific for Native Antigens. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 7725-7729.	7.2	88
3	A New Homobifunctional p-Nitro Phenyl Ester Coupling Reagent for the Preparation of Neoglycoproteins. <i>Organic Letters</i> , 2004, 6, 4407-4410.	2.4	87
4	Genetically Encoded Fragment-Based Discovery of Glycopeptide Ligands for Carbohydrate-Binding Proteins. <i>Journal of the American Chemical Society</i> , 2015, 137, 5248-5251.	6.6	67
5	Chondroitin sulfate proteoglycans as novel drivers of leucocyte infiltration in multiple sclerosis. <i>Brain</i> , 2018, 141, 1094-1110.	3.7	67
6	Self-organizing systems based on amphiphilic cyclodextrin diesters. <i>Journal of Physical Organic Chemistry</i> , 1992, 5, 518-528.	0.9	57
7	Cyclodextrin liquid crystals: synthesis and self-organisation of amphiphilic thio- β -cyclodextrins. <i>Journal of the Chemical Society Chemical Communications</i> , 1993, , 438-440.	2.0	54
8	Concise and Efficient Synthesis of 2-Acetamido-2-deoxy- β -D-glucopyranosides of Diverse Aminosugars from 2-Acetamido-2-deoxy- β -D-glucose. <i>Journal of Organic Chemistry</i> , 2009, 74, 580-589.	1.7	54
9	A general, efficient and stereospecific route to sphingosine, sphinganine, phytosphingosines and their analogs. <i>Organic and Biomolecular Chemistry</i> , 2006, 4, 1140.	1.5	39
10	Synthesis of ganglioside epitopes for oligosaccharide specific immunoadsorption therapy of Guillian-Barré syndrome. <i>Organic and Biomolecular Chemistry</i> , 2004, 2, 1199-1212.	1.5	37
11	Multiple tritylation: a convenient route to polysubstituted derivatives of cyclomaltohexaose. <i>Carbohydrate Research</i> , 1992, 223, 287-291.	1.1	36
12	Diisobutylaluminum Hydride Mediated Regioselective O-Alkylation/Desilylations: Access to Multisubstituted Cyclodextrins. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 1548-1552.	7.2	35
13	Genetically encoded multivalent liquid glycan array displayed on M13 bacteriophage. <i>Nature Chemical Biology</i> , 2021, 17, 806-816.	3.9	33
14	Chemoenzymatic synthesis of GM3 and GM2 gangliosides containing a truncated ceramide functionalized for glycoconjugate synthesis and solid phase applications. <i>Organic and Biomolecular Chemistry</i> , 2006, 4, 142-154.	1.5	31
15	Synthesis and Complexation Properties of a Cyclodextrin-Derived Siderophore Analogue. <i>Angewandte Chemie International Edition in English</i> , 1992, 31, 1381-1383.	4.4	30
16	Targeting the Chondroitin Sulfate Proteoglycans: Evaluating Fluorinated Glucosamines and Xylosides in Screens Pertinent to Multiple Sclerosis. <i>ACS Central Science</i> , 2019, 5, 1223-1234.	5.3	29
17	The first selective per-tosylation of the secondary OH-2 of β -cyclodextrin. <i>Tetrahedron Letters</i> , 1991, 32, 3997-3998.	0.7	26
18	Controlled Synthesis of Linear β -Cyclodextrin Oligomers Using Copper-Catalyzed Huisgen 1,3-Dipolar Cycloaddition. <i>Organic Letters</i> , 2010, 12, 3096-3099.	2.4	26

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19	Multi-responsive self-assembled pyrene-appended β -cyclodextrin nanoaggregates: Discriminative and selective ratiometric detection of pirimicarb pesticide and trinitroaromatic explosives. <i>Sensors and Actuators B: Chemical</i> , 2019, 281, 229-238.	4.0	26
20	The use of chlorodimethylhexylsilane for protecting the hydroxyl groups in cyclomaltoheptaose (β -cyclodextrin). <i>Carbohydrate Research</i> , 1992, 224, 307-309.	1.1	25
21	DIBAL-H mediated triple and quadruple debenzylations of perbenzylated cyclodextrins. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 171-180.	1.5	24
22	Amphiphilic Cyclodextrin-Based Liquid Crystals for Proton Conduction. <i>Journal of the American Chemical Society</i> , 2019, 141, 9217-9224.	6.6	24
23	Unexpected regioselective debenylation leading to modification of both rims of β -cyclodextrin. <i>Tetrahedron Letters</i> , 2009, 50, 4633-4636.	0.7	22
24	Versican promotes T helper 17 cytotoxic inflammation and impedes oligodendrocyte precursor cell remyelination. <i>Nature Communications</i> , 2022, 13, 2445.	5.8	22
25	First Per-6-O-tritylation of Cyclodextrins. <i>Organic Letters</i> , 2012, 14, 1612-1615.	2.4	20
26	Synthesis and properties of cyclo- β -1,4-manno-2,3-epoxides. <i>Supramolecular Chemistry</i> , 1992, 1, 11-14.	1.5	19
27	An efficient conversion of N-acetyl-d-glucosamine to N-acetyl-d-galactosamine and derivatives. <i>Carbohydrate Research</i> , 2010, 345, 2450-2457.	1.1	19
28	Investigation into the role of the hydrogen bonding network in cyclodextrin-based self-assembling mesophases. <i>Journal of Materials Chemistry C</i> , 2014, 2, 4928-4936.	2.7	19
29	A Scalable Approach to Obtaining Orthogonally Protected β -Idopyranosides. <i>Journal of Organic Chemistry</i> , 2012, 77, 6760-6772.	1.7	18
30	Total synthesis of LeA-LacNAc pentasaccharide as a ligand for Clostridium difficile toxin A. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 128-136.	1.5	17
31	The role of multilayers in preventing the premature buckling of the pulmonary surfactant. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 1372-1380.	1.4	16
32	The conformation of a tetratritylated β -cyclodextrin with unusual proton NMR. <i>Carbohydrate Research</i> , 2009, 344, 808-814.	1.1	15
33	Total Synthesis of β -Idopyranosides Related to Capsular Polysaccharides of <i>Campylobacter jejuni</i> HS:4. <i>Journal of Organic Chemistry</i> , 2017, 82, 9662-9674.	1.7	14
34	Synthesis and comparison of mesomorphic behaviour of a cholesterol-based liquid crystal dimer and analogous monomers. <i>Liquid Crystals</i> , 2018, 45, 1164-1176.	0.9	14
35	Efficient and Versatile Modification of the Secondary Face of Cyclodextrins through Copper-Catalyzed Huisgen 1,3-dipolar Cycloaddition. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 4853-4861.	1.2	13
36	Liquid crystalline lithium-ion electrolytes derived from biodegradable cyclodextrin. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12201-12213.	5.2	13

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37	Bifunctional Pyrrolidin-2-one Terminated Manganese Oxide Nanoparticles for Combined Magnetic Resonance and Fluorescence Imaging. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 13069-13078.	4.0	13
38	Formation, Spectroscopic Characterization, and Solution Stability of an [Fe ₄ S ₄] ²⁺ Cluster Derived from β -Cyclodextrin Dithiolate. <i>Inorganic Chemistry</i> , 2012, 51, 9883-9892.	1.9	12
39	A Family of Amphiphilic Cyclodextrin Liquid Crystals Governed by Dipole-Dipole Interactions. <i>ChemPlusChem</i> , 2017, 82, 423-432.	1.3	12
40	Probing a sialyltransferase's recognition domain to prepare β -(2,8)-linked oligosialosides and analogs. <i>Chemical Communications</i> , 2009, , 4233.	2.2	10
41	Studies on the 6-homologation of β -D-idopyranosides. <i>Carbohydrate Research</i> , 2017, 445, 65-74.	1.1	10
42	Clustering of P ₃ -trisaccharides on amphiphilic cyclodextrin reveals unprecedented affinity for the Shiga-like toxin Stx2. <i>Chemical Communications</i> , 2017, 53, 10528-10531.	2.2	10
43	Inverting substitution patterns on amphiphilic cyclodextrins induces unprecedented formation of hexagonal columnar superstructures. <i>Journal of Materials Chemistry C</i> , 2017, 5, 9247-9254.	2.7	10
44	Dysfunction of pulmonary surfactant mediated by phospholipid oxidation is cholesterol-dependent. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 1040-1049.	1.1	10
45	Synthesis of a Forssman antigen derivative for use in a conjugate vaccine. <i>Carbohydrate Research</i> , 2011, 346, 2650-2662.	1.1	9
46	Role of the 4,6-O-acetal in the regio- and stereoselective conversion of 2,3-di-O-sulfonyl- β -d-galactopyranosides to d-idopyranosides. <i>Carbohydrate Research</i> , 2013, 376, 37-48.	1.1	9
47	Synthesis and Unprecedented Complexation Properties of β -Cyclodextrin-Based Ligand for Lanthanide Ions. <i>Inorganic Chemistry</i> , 2018, 57, 8964-8977.	1.9	9
48	Evidence of cation-coordination involvement in directing the regioselective di-inversion reaction of vicinal di-sulfonate esters. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 1887.	1.5	8
49	DIBAL-H-mediated O-desilylation with highly sterically hindered cyclodextrin substrates. <i>Tetrahedron</i> , 2013, 69, 5227-5233.	1.0	8
50	Synthesis of modified <i>Trichinella spiralis</i> disaccharide epitopes and a comparison of their recognition by chemical mapping and saturation transfer difference NMR. <i>Carbohydrate Research</i> , 2014, 383, 1-13.	1.1	8
51	Controlled Acid-Mediated Regioselective O-Desilylations for Multifunctionalization of Cyclodextrins. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 5793-5805.	1.2	7
52	Efficient regioselective O ₃ -monodesilylation by hydrochloric acid in cyclodextrins. <i>Carbohydrate Research</i> , 2015, 410, 36-46.	1.1	7
53	A mild acetolysis procedure for the regioselective removal of isopropylidene in di-O-isopropylidene-protected pyranoside systems. <i>Carbohydrate Research</i> , 2017, 445, 7-13.	1.1	7
54	A Distinct Hibiscus sabdariffa Extract Prevents Iron Neurotoxicity, a Driver of Multiple Sclerosis Pathology. <i>Cells</i> , 2022, 11, 440.	1.8	5

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55	Amphiphilic 6-S-alkyl-6-thiocyclodextrins: unimolecular micellar and reverse micellar behaviour. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1998, , 1513-1516.	0.9	4
56	CST-II TM 's recognition domain for acceptor substrates in Î±-(2â€²8)-sialylations. <i>Carbohydrate Research</i> , 2011, 346, 1692-1704.	1.1	4
57	Synthesis of rationally designed tetrasaccharides for crystallographic and binding studies with <i>Clostridium difficile</i> toxins and unexpected partial N-methylations during catalytic hydrogenation of azides in methanol. <i>Canadian Journal of Chemistry</i> , 2016, 94, 961-968.	0.6	3
58	Supramolecular Liquid Crystals Based on Cyclodextrins. <i>Environmental Chemistry for A Sustainable World</i> , 2018, , 183-240.	0.3	3
59	An efficient and scalable synthesis of 2,4-di-N-acetyl-altrose (<i>2,4-Alt-diNAc</i>). <i>RSC Advances</i> , 2021, 11, 11583-11594.	1.7	2
60	Highly Efficient and Stereoselective Synthesis of 6,7-Dideoxy-2,8-di-O-pyranuronates. <i>European Journal of Organic Chemistry</i> , 2022, 2022, .		2
61	Eliciting carbohydrate-specific immune response against sialosides: success and challenges. <i>Future Medicinal Chemistry</i> , 2011, 3, 519-534.	1.1	1
62	Cyanoethylation of cyclodextrin derivatives. <i>Canadian Journal of Chemistry</i> , 2016, 94, 436-443.	0.6	1
63	Glycoclusters and Glycodendrimers. , 2021, , 263-345.		0