

Helen Osborn

List of Publications by Year in descending order

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58
papers

2,557
citations

257450

24
h-index

189892

50
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59
all docs

59
docs citations

59
times ranked

3517
citing authors

#	ARTICLE	IF	CITATIONS
1	The asymmetric synthesis of aziridines. <i>Tetrahedron: Asymmetry</i> , 1997, 8, 1693-1715.	1.8	459
2	Flavonoids as prospective compounds for anti-cancer therapy. <i>International Journal of Biochemistry and Cell Biology</i> , 2013, 45, 2821-2831.	2.8	428
3	Recent developments in polymer supported syntheses of oligosaccharides and glycopeptides. <i>Tetrahedron</i> , 1999, 55, 1807-1850.	1.9	128
4	Neoglycolipid Probes Prepared via Oxime Ligation for Microarray Analysis of Oligosaccharide-Protein Interactions. <i>Chemistry and Biology</i> , 2007, 14, 847-859.	6.0	126
5	Parameters Affecting the Enhanced Permeability and Retention Effect: The Need for Patient Selection. <i>Journal of Pharmaceutical Sciences</i> , 2017, 106, 3179-3187.	3.3	110
6	One-pot synthesis of multivalent arrays of mannose mono- and disaccharides. <i>Tetrahedron</i> , 2003, 59, 7983-7996.	1.9	87
7	Regioselective C-3-O-acylation and O-methylation of 4,6-O-benzylidene- β -D-glucopyranosides displaying a range of anomeric substituents. <i>Carbohydrate Research</i> , 2001, 332, 157-166.	2.3	60
8	Analysis of polysaccharides and monosaccharides in the root mucilage of maize (<i>Zea mays</i> L.) by gas chromatography. <i>Journal of Chromatography A</i> , 1999, 831, 267-276.	3.7	55
9	Alterations in Receptor Binding Properties of Recent Human Influenza H3N2 Viruses Are Associated with Reduced Natural Killer Cell Lysis of Infected Cells. <i>Journal of Virology</i> , 2007, 81, 11170-11178.	3.4	52
10	Melanocyte-Directed enzyme prodrug therapy (MDEPT). <i>Bioorganic and Medicinal Chemistry</i> , 2001, 9, 1549-1558.	3.0	49
11	Preparation and ring-opening reactions of N-Diphenylphosphinyl aziridines. <i>Tetrahedron</i> , 1998, 54, 2181-2208.	1.9	47
12	Exploring quercetin and luteolin derivatives as antiangiogenic agents. <i>European Journal of Medicinal Chemistry</i> , 2015, 97, 259-274.	5.5	47
13	Melanocyte-directed enzyme prodrug therapy (MDEPT): development of a targeted treatment for malignant melanoma. <i>Bioorganic and Medicinal Chemistry</i> , 1999, 7, 1775-1780.	3.0	46
14	The Synthesis and Reactivity of N-Diphenylphosphinyl Aziridines. <i>Synlett</i> , 1994, 1994, 145-147.	1.8	44
15	Regioselective lipase-catalysed acylation of 4,6-O-benzylidene- β - and α -D-pyranoside derivatives displaying a range of anomeric substituents. <i>Tetrahedron</i> , 1998, 54, 14925-14946.	1.9	42
16	Synthesis and analysis of urea and carbamate prodrugs as candidates for melanocyte-directed enzyme prodrug therapy (MDEPT). <i>Bioorganic and Medicinal Chemistry</i> , 2002, 10, 2625-2633.	3.0	41
17	Synthesis of S-linked carbohydrate analogues via a Ferrier reaction. <i>Tetrahedron</i> , 2008, 64, 2832-2854.	1.9	41
18	Ruthenium-conjugated chrysin analogues modulate platelet activity, thrombus formation and haemostasis with enhanced efficacy. <i>Scientific Reports</i> , 2017, 7, 5738.	3.3	41

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19	Analysis of Chain and Blood Group Type and Branching Pattern of Sialylated Oligosaccharides by Negative Ion Electrospray Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2006, 78, 1581-1592.	6.5	39
20	Synthesis and glycosidase inhibitory profiles of functionalised morpholines and oxazepanes. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 5679-5692.	3.0	34
21	Impact of the Enhanced Permeability and Retention (EPR) Effect and Cathepsins Levels on the Activity of Polymer-Drug Conjugates. <i>Polymers</i> , 2014, 6, 2186-2220.	4.5	34
22	New prodrugs derived from 6-aminodopamine and 4-aminophenol as candidates for melanocyte-directed enzyme prodrug therapy (MDEPT). <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 4002.	2.8	29
23	A practical alternative to sulfonyl activation of aziridines: Ring-opening of N-diphenylphosphinoyl aziridines by carbon nucleophiles. <i>Tetrahedron Letters</i> , 1994, 35, 2739-2742.	1.4	28
24	Sialic acids in biological and therapeutic processes: opportunities and challenges. <i>Future Medicinal Chemistry</i> , 2015, 7, 2285-2299.	2.3	26
25	Novel synthesised flavone derivatives provide significant insight into the structural features required for enhanced anti-proliferative activity. <i>RSC Advances</i> , 2016, 6, 64544-64556.	3.6	26
26	Ring-Opening of N-Tosyl Aziridines by Sulphur-Stabilized Nucleophiles. <i>Synlett</i> , 1993, 1993, 675-676.	1.8	25
27	Direct preparation of N-diphenylphosphinoyl aziridines from 1,2-aminoalcohols utilizing nucleofugacity of diphenylphosphinates. <i>Tetrahedron Letters</i> , 1994, 35, 3159-3162.	1.4	25
28	Analysis of Three Epoetin Alpha Products by LC and LC-MS Indicates Differences in Glycosylation Critical Quality Attributes, Including Sialic Acid Content. <i>Analytical Chemistry</i> , 2017, 89, 6455-6462.	6.5	25
29	A Solution NMR Approach To Determine the Chemical Structures of Carbohydrates Using the Hydroxyl Groups as Starting Points. <i>ACS Omega</i> , 2018, 3, 17957-17975.	3.5	25
30	Impact of specific functional groups in flavonoids on the modulation of platelet activation. <i>Scientific Reports</i> , 2018, 8, 9528.	3.3	24
31	Regioselective C-3-O-acylation and O-alkylation of 4,6-O-benzylidene- β -D-glucopyranoside, derivatives displaying a range of anomeric substituents. <i>Tetrahedron Letters</i> , 1999, 40, 6991-6994.	1.4	23
32	Development of Tyrosinase Labile Protecting Groups for Amines. <i>Organic Letters</i> , 2004, 6, 3111-3113.	4.6	22
33	Novel Inhibitors of Carboxypeptidase G2 (CPG2): Potential Use in Antibody-Directed Enzyme Prodrug Therapy. <i>Journal of Medicinal Chemistry</i> , 1999, 42, 951-956.	6.4	19
34	Synthetic entry to functionalised morpholines and [1,4]-oxazepanes via reductive amination reactions of carbohydrate derived dialdehydes. <i>Tetrahedron: Asymmetry</i> , 2004, 15, 3643-3652.	1.8	18
35	Stereoselective Entry to β -Linked C-Disaccharides Using a Carbon-Ferrier Reaction. <i>Organic Letters</i> , 2003, 5, 1649-1652.	4.6	16
36	Feasibility of polymer-drug conjugates for non-cancer applications. <i>Current Opinion in Colloid and Interface Science</i> , 2017, 31, 51-66.	7.4	16

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37	Rapid Synthesis of Carbohydrate Derivatives, Including Mimetics of α -C-Linked Disaccharides and α -C-Linked Aza Disaccharides, Using the Hetero-Diels-Alder Reaction. <i>Journal of Organic Chemistry</i> , 2010, 75, 7210-7218.	3.2	15
38	Synthesis and antibacterial profiles of targeted triclosan derivatives. <i>European Journal of Medicinal Chemistry</i> , 2019, 162, 51-58.	5.5	15
39	Synthesis and Evaluation of Novel Boron-Containing Complexes of Potential Use for the Selective Treatment of Malignant Melanoma. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 6604-6608.	6.4	14
40	Probing the receptor interactions of an H5 avian influenza virus using a baculovirus expression system and functionalised poly(acrylic acid) ligands. <i>Bioorganic and Medicinal Chemistry</i> , 2007, 15, 4038-4047.	3.0	13
41	Synthesis and Biological Evaluation of a Polyglutamic Acid-Dopamine Conjugate: A New Antiangiogenic Agent. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 5255-5259.	6.4	12
42	Preparation and ring-opening reactions of N -diphenylphosphinyl vinyl aziridines. <i>Beilstein Journal of Organic Chemistry</i> , 2013, 9, 852-859.	2.2	12
43	Synthesis and chemistry of the ionophore antibiotic tetronasin. <i>Journal of Heterocyclic Chemistry</i> , 1996, 33, 1533-1544.	2.6	11
44	Synthesis of disaccharides containing β -linked GlcNAc or β -linked ManNAc units. <i>Tetrahedron</i> , 2001, 57, 7919-7937.	1.9	11
45	Synthesis of poly(aspartimide)-based bio-glycoconjugates. <i>Carbohydrate Research</i> , 2010, 345, 33-40.	2.3	10
46	Thioflavones as novel neuroprotective agents. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 5513-5520.	3.0	10
47	Sialic acid as a potential biomarker for cardiovascular disease, diabetes and cancer. <i>Biomarkers in Medicine</i> , 2021, 15, 911-928.	1.4	10
48	The utility of glycoside copper chelates for effecting regioselective glycosidation. <i>Tetrahedron Letters</i> , 2002, 43, 7855-7857.	1.4	9
49	Preparation of enantiopure long chain threo-2-amino-3-hydroxyesters via chiral morpholinone-derived azomethine ylids. <i>Canadian Journal of Chemistry</i> , 2006, 84, 1448-1455.	1.1	9
50	A novel PEG-haloperidol conjugate with a non-degradable linker shows the feasibility of using polymer-drug conjugates in a non-prodrug fashion. <i>Polymer Chemistry</i> , 2016, 7, 7204-7210.	3.9	8
51	Synthesis of Unsaturated Aminopyranosides as Possible Transition State Mimics for Glycosidases. <i>Journal of Carbohydrate Chemistry</i> , 2003, 22, 705-717.	1.1	7
52	Regioselective Beckmann rearrangements of furanoside and pyranoside-derived oximes. <i>Tetrahedron: Asymmetry</i> , 2011, 22, 109-116.	1.8	7
53	One-pot synthesis of multivalent arrays of mannose mono- and disaccharides. <i>Tetrahedron Letters</i> , 2002, 43, 7683-7685.	1.4	6
54	Synthesis and NMR spectroscopic analysis of 3-nitro-pyranoside, 3-nitro-septanoside and 4-nitro-septanoside derivatives by condensation of the anion of nitromethane with glycoside dialdehydes. <i>Tetrahedron: Asymmetry</i> , 2009, 20, 2162-2166.	1.8	6

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55	Synthesis and biological analysis of novel glycoside derivatives of I-AEP, as targeted antibacterial agents. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 3774-3779.	2.2	5
56	A new entry to 4,6-O-benzylidene glucal from phenyl 1-seleno- α -D-mannopyranoside. Tetrahedron: Asymmetry, 2005, 16, 1935-1937.	1.8	4
57	Quantitative Standards of 4-O-Acetyl- and 9-O-Acetyl-N-Acetylneuraminic Acid for the Analysis of Plasma and Serum. ChemBioChem, 2022, 23, .	2.6	4
58	Development of New Methodologies for Entry to Targets of Therapeutic Interest. Synlett, 2005, 2005, 2571-2586.	1.8	2