Jan Kihlberg

List of Publications by Year
in descending order

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171 papers	8,237 citations	50170 46 h-index	56606 83 g-index
176 all docs	176 docs citations	176 times ranked	6679 citing authors

#	Article	IF	Citations
1	Oral Druggable Space beyond the Rule of 5: Insights from Drugs and Clinical Candidates. Chemistry and Biology, 2014, 21, 1115-1142.	6.2	523
2	Macrocyclic Drugs and Clinical Candidates: What Can Medicinal Chemists Learn from Their Properties?. Journal of Medicinal Chemistry, 2014, 57, 278-295.	2.9	458
3	Predominant selection of T cells specific for the glycosylated collagen type II epitope (263-270) in humanized transgenic mice and in rheumatoid arthritis. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 9960-9965.	3.3	370
4	2-(Trimethylsilyl)ethyl glycosides. 3. Synthesis, anomeric deblocking, and transformation into 1,2-trans 1-O-acyl sugars. Journal of Organic Chemistry, 1988, 53, 5629-5647.	1.7	328
5	Glycosylation of type?II collagen is of major importance for T cell tolerance and pathology in collagen-induced arthritis. European Journal of Immunology, 2002, 32, 3776-3784.	1.6	264
6	How Beyond Rule of 5 Drugs and Clinical Candidates Bind to Their Targets. Journal of Medicinal Chemistry, 2016, 59, 2312-2327.	2.9	248
7	Role of the Human ST6GalNAc-I and ST6GalNAc-II in the Synthesis of the Cancer-Associated Sialyl-Tn Antigen. Cancer Research, 2004, 64, 7050-7057.	0.4	203
8	Cell permeability beyond the rule of 5. Advanced Drug Delivery Reviews, 2016, 101, 42-61.	6.6	196
9	How Big Is Too Big for Cell Permeability?. Journal of Medicinal Chemistry, 2017, 60, 1662-1664.	2.9	181
10	Epitope glycosylation plays a critical role for T cell recognition of type II collagen in collagen-induced arthritis. European Journal of Immunology, 1998, 28, 2580-2590.	1.6	156
11	Structural and conformational determinants of macrocycle cell permeability. Nature Chemical Biology, 2016, 12, 1065-1074.	3.9	152
12	Impact of Dynamically Exposed Polarity on Permeability and Solubility of Chameleonic Drugs Beyond the Rule of 5. Journal of Medicinal Chemistry, 2018, 61, 4189-4202.	2.9	150
13	The Sesquiterpenes of Lactarius vellereus and Their Role in a Proposed Chemical Defense System. Journal of Natural Products, 1985, 48, 279-288.	1.5	128
14	Design and Evaluation of Pilicides: Potential Novel Antibacterial Agents Directed Against UropathogenicEscherichia coli. ChemBioChem, 2001, 2, 915-918.	1.3	118
15	Ultralarge Virtual Screening Identifies SARS-CoV-2 Main Protease Inhibitors with Broad-Spectrum Activity against Coronaviruses. Journal of the American Chemical Society, 2022, 144, 2905-2920.	6.6	118
16	Solution Conformations Shed Light on PROTAC Cell Permeability. ACS Medicinal Chemistry Letters, 2021, 12, 107-114.	1.3	99
17	Preparation of building blocks for glycopeptide synthesis by glycosylation of Fmoc amino acids having unprotected carboxyl groups. Tetrahedron, 1995, 51, 5643-5656.	1.0	97
18	Building blocks for glycopeptide synthesis: glycosylation of 3-mercaptopropionic acid and Fmoc amino acids with unprotected carboxyl groups. Tetrahedron Letters, 1991, 32, 7613-7616.	0.7	91

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19	Periplasmic chaperone recognition motif of subunits mediates quaternary interactions in the pilus. EMBO Journal, 1998, 17, 6155-6167.	3.5	87
20	Immunization with glycosylated Kb-binding peptides generates carbohydrate-specific, unrestricted cytotoxic T cells. European Journal of Immunology, 1996, 26, 544-551.	1.6	84
21	The structural basis of MHC control of collagen-induced arthritis; binding of the immunodominant type II collagen 256â€‰â€“â€‰270 glycopeptide to H-2Aq and H-2Ap molecules. European Journal of Immunology, 1998, 28, 755-766.	3.6	84
22	Intramolecular hydrogen bonding: An opportunity for improved design in medicinal chemistry. Medicinal Research Reviews, 2019, 39, 1707-1729.	5.0	84
23	Probing of the combining site of the PapG adhesin of uropathogenic Escherichia coli bacteria by synthetic analogs of galabiose. Journal of the American Chemical Society, 1989, 111, 6364-6368.	6.6	82
24	Glycosylated Peptide Hormones: Pharmacological Properties and Conformational Studies of Analogs of [1-Desamino,8-D-arginine]vasopressin. Journal of Medicinal Chemistry, 1995, 38, 161-169.	2.9	82
25	T Cells Recognize a Glycopeptide Derived from Type II Collagen in a Model for Rheumatoid Arthritis. Journal of the American Chemical Society, 1998, 120, 7676-7683.	6.6	78
26	Preparation of Tn and sialyl Tn building blocks used in Fmoc solid-phase synthesis of glycopeptide fragments from HIV gp120. Tetrahedron, 1997, 53, 369-390.	1.0	77
27	Solution Conformations Explain the Chameleonic Behaviour of Macrocyclic Drugs. Chemistry - A European Journal, 2020, 26, 5231-5244.	1.7	77
28	Impact of Stereospecific Intramolecular Hydrogen Bonding on Cell Permeability and Physicochemical Properties. Journal of Medicinal Chemistry, 2014, 57, 2746-2754.	2.9	76
29	Drug discovery beyond the rule of 5 - Opportunities and challenges. Expert Opinion on Drug Discovery, 2017, 12, 115-119.	2.5	75
30	Removal of Acyl Protective Groups from Glycopeptides:Â Base Does Not Epimerize Peptide Stereocenters, and Î²-Elimination Is Slow. Journal of Organic Chemistry, 1996, 61, 560-565.	1.7	74
31	The major T cell epitope on type II collagen is glycosylated in normal cartilage but modified by arthritis in both rats and humans. European Journal of Immunology, 2005, 35, 357-366.	1.6	72
32	Hypothesis driven drug design: improving quality and effectiveness of the design-make-test-analyse cycle. Drug Discovery Today, 2012, 17, 56-62.	3.2	72
33	Conformational Sampling of Macrocyclic Drugs in Different Environments: Can We Find the Relevant Conformations?. ACS Omega, 2018, 3, 11742-11757.	1.6	71
34	Antigen processing and presentation of a naturally glycosylated protein elicits major histocompatibility complex class II-restricted, carbohydrate-specific T cells. European Journal of Immunology, 1996, 26, 1906-1910.	1.6	70
35	Development and characterization of an antibody directed to an alpha-N-acetyl-D-galactosamine glycosylated MUC2 peptide. Glycoconjugate Journal, 1998, 15, 51-62.	1.4	69
36	T cells specific for post-translational modifications escape intrathymic tolerance induction. Nature Communications, 2018, 9, 353.	5.8	66

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37	Opportunities and guidelines for discovery of orally absorbed drugs in beyond rule of 5 space. Current Opinion in Chemical Biology, 2018, 44, 23-29.	2.8	64
38	Boron trifluoride etherate as an effective reagent for the stereoselective one-pot conversion of acetylated 2-trimethylsilylethyl glycosides into sugar 1,2-trans-acetates. Tetrahedron Letters, 1986, 27, 753-756.	0.7	62
39	Chemoenzymatic Synthesis of Sialylated Glycopeptides Derived from Mucins and T-Cell Stimulating Peptides. Journal of the American Chemical Society, 2001, 123, 11117-11125.	6.6	62
40	Making medicinal chemistry more effectiveâ€"application of Lean Sigma to improve processes, speed and quality. Drug Discovery Today, 2009, 14, 598-604.	3.2	59
41	Use of 19F NMR spectroscopy to evaluate reactions in solid phase organic synthesis. Tetrahedron Letters, 1996, 37, 7649-7652.	0.7	57
42	Use of19F NMR spectroscopy to screen chemical libraries for ligands that bind to proteins. Organic and Biomolecular Chemistry, 2004, 2, 725-731.	1.5	56
43	Therapeutic Vaccination of Active Arthritis with a Glycosylated Collagen Type II Peptide in Complex with MHC Class II Molecules. Journal of Immunology, 2006, 176, 1525-1533.	0.4	56
44	Solid-Phase Synthesis of Glycopeptides: Immunological Studies with T Cell Stimulating Glycopeptides. Current Medicinal Chemistry, 1997, 4, 85-116.	1.2	54
45	Anti-citrullinated protein antibodies cause arthritis by cross-reactivity to joint cartilage. JCI Insight, 2017, 2, .	2.3	51
46	Steering New Drug Discovery Campaigns: Permeability, Solubility, and Physicochemical Properties in the bRo5 Chemical Space. ACS Medicinal Chemistry Letters, 2021, 12, 13-23.	1.3	50
47	Multifunctional T cell reactivity with native and glycosylated type II collagen in rheumatoid arthritis. Arthritis and Rheumatism, 2012, 64, 2482-2488.	6.7	48
48	Preparation of a Diglycosylated Hydroxylysine Building Block Used in Solid-Phase Synthesis of a Glycopeptide from Type II Collagen. Journal of Organic Chemistry, 1999, 64, 8948-8953.	1.7	47
49	Discovery of Potent Inhibitors of PapG Adhesins from Uropathogenic Escherichia coli through Synthesis and Evaluation of Galabiose Derivatives. ChemBioChem, 2002, 3, 772.	1.3	47
50	Synthetic receptor analogues: preparation of the 3-O-methyl, 3-C-methyl, and 3-deoxy derivatives of methyl 4-O-Î±-d-galactopyranosyl-Î²-d-galactopyranoside (methyl Î²-d-galabioside). Carbohydrate Research, 1986, 152, 113-130.	1.1	46
51	Quantitative studies of the binding of the class II PapG adhesin from uropathogenic Escherichia coli to oligosaccharides. Bioorganic and Medicinal Chemistry, 2003, 11, 2255-2261.	1.4	45
52	An Improved Synthesis of a Galactosylated Hydroxylysine Building Block and its use in Solid-Phase Glycopeptide Synthesis. Tetrahedron, 2000, 56, 1579-1586.	1.0	43
53	Synthetic receptor analogues: the conformation of methyl 4-O-Î±-d-galactopyranosyl-Î²-d-galactopyranoside (methyl Î²-d-galabioside) and related derivatives, determined by N.M.R. and computational methods. Carbohydrate Research, 1988, 176, 253-270.	1.1	42
54	Enhancing preclinical drug discovery with artificial intelligence. Drug Discovery Today, 2022, 27, 967-984.	3.2	39

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55	2-trimethylsilylethyl glycosides. Anomeric deblocking of mono- and disaccharides.. Tetrahedron Letters, 1988, 29, 361-362.	0.7	37
56	Fluorinated linkers for monitoring solid-phase synthesis using gel-phase 19F NMR spectroscopy. Tetrahedron Letters, 1998, 39, 7193-7196.	0.7	37
57	Use of Fluorobenzoyl Protective Groups in Synthesis of Glycopeptides:Â Î²-Elimination ofO-Linked Carbohydrates Is Suppressedâ€. Journal of Organic Chemistry, 2001, 66, 2957-2965.	1.7	37
58	Drug Syntheses Beyond the Rule of 5. Chemistry - A European Journal, 2020, 26, 49-88.	1.7	36
59	Synthetic receptor analogues: preparation and calculated conformations of the 2-deoxy, 6-O-methyl, 6-deoxy, and 6-deoxy-6-fluoro derivatives of methyl 4-O-Î±-d-galactopyranosyl-Î²-d-galactopyranoside (methyl Î²-d-galabioside). Carbohydrate Research, 1988, 176, 271-286.	1.1	35
60	Piperidine is preferred to morpholine for Fmoc cleavage in solid phase glycopeptide synthesis as exemplified by preparation of glycopeptides related to HIV gp120 and mucins. Tetrahedron, 1996, 52, 7983-8000.	1.0	35
61	Conformation of desmopressin, an analogue of the peptide hormone vasopressin, in aqueous solution as determined by NMR spectroscopy. FEBS Journal, 1998, 252, 428-440.	0.2	35
62	Monitoring Solid-Phase Glycoside Synthesis with19F NMR Spectroscopy. Organic Letters, 2001, 3, 1463-1466.	2.4	35
63	Multivalent sialic acid conjugates inhibit adenovirus type 37 from binding to and infecting human corneal epithelial cells. Antiviral Research, 2007, 73, 92-100.	1.9	35
64	An Improved Synthesis of 3,4,6-Tri-O-acetyl-2-azido-2-deoxy-Î±-d-galactopyranosyl Bromide: A Key Component for Synthesis of Glycopeptides and Glycolipids. Journal of Carbohydrate Chemistry, 1994, 13, 129-132.	0.4	34
65	Solid-Phase Synthesis of Î±-Gal Epitopes:Â On-Resin Analysis of Solid-Phase Oligosaccharide Synthesis with19F NMR Spectroscopy. Journal of Organic Chemistry, 2003, 68, 7281-7288.	1.7	34
66	The design and synthesis of antibody binding site probes: three pentasaccharide analogues of the Brucella A antigen prepared by activation in situ of thioglycosides with bromine. Carbohydrate Research, 1991, 211, 59-75.	1.1	33
67	Synthesis of Conformationally Restricted Mimetics of Î³-Turns and Incorporation into Desmopressin, an Analogue of the Peptide Hormone Vasopressin. Chemistry - A European Journal, 1999, 5, 2241-2253.	1.7	33
68	Multivalent HSA Conjugates of 3â€²-Sialyllactose are Potent Inhibitors of Adenoviral Cell Attachment and Infection. ChemBioChem, 2005, 6, 358-364.	1.3	33
69	Multivariate Design, Synthesis, and Biological Evaluation of Peptide Inhibitors of FimC/FimH Proteinâ^'Protein Interactions in UropathogenicEscherichia coli. Journal of Medicinal Chemistry, 2005, 48, 935-945.	2.9	32
70	Solid-phase synthesis and conformational studies of glycosylated derivatives of helper-T-cell immunogenic peptides from hen-egg lysozyme. Carbohydrate Research, 1993, 246, 89-103.	1.1	31
71	Hierarchical PLS Modeling for Predicting the Binding of a Comprehensive Set of Structurally Diverse Proteinâ^'Ligand Complexes. Journal of Chemical Information and Modeling, 2006, 46, 1154-1167.	2.5	31
72	Predicting the Permeability of Macrocycles from Conformational Sampling â€“ Limitations of Molecular Flexibility. Journal of Pharmaceutical Sciences, 2021, 110, 301-313.	1.6	31

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73	Molecular dissection of PapD interaction with PapG reveals two chaperone-binding sites. Molecular Microbiology, 1995, 16, 1011-1020.	1.2	30
74	Preparation of Fluorinated Linkers:Â Use of19F NMR Spectroscopy to Establish Conditions for Solid-Phase Synthesis of Pilicide Libraries. ACS Combinatorial Science, 2000, 2, 736-748.	3.3	30
75	Basidiomycete sesquiterpenes: the silica gel induced degradation of velutinal derivatives. Journal of Organic Chemistry, 1985, 50, 950-953.	1.7	29
76	Synthesis of a C-Glycoside Analogue of Î²-d-Galactosylthreonine. Journal of Organic Chemistry, 2003, 68, 2506-2509.	1.7	29
77	Design, Synthesis and Evaluation of a PLG Tripeptidomimetic Based on a Pyridine Scaffold. Journal of Medicinal Chemistry, 2004, 47, 6595-6602.	2.9	29
78	Metabolite aberrations in early diabetes detected in rat kidney using mass spectrometry imaging. Analytical and Bioanalytical Chemistry, 2019, 411, 2809-2816.	1.9	29
79	A synthetic approach to 2,3,4-substituted pyridines useful as scaffolds for tripeptidomimetics. Tetrahedron, 2004, 60, 6113-6120.	1.0	28
80	Synthesis and Pharmacological Evaluation of an Analogue of the Peptide Hormone Oxytocin That Contains a Mimetic of an Inverse Î³-Turn. Journal of Medicinal Chemistry, 2002, 45, 2512-2519.	2.9	27
81	Synthesis and Conformational Studies of a Î²-Turn Mimetic Incorporated in Leu-enkephalin. Journal of Organic Chemistry, 2004, 69, 3500-3508.	1.7	27
82	Structureâ€“activity relationships of galabioside derivatives as inhibitors of E. coli and S. suis adhesins: nanomolar inhibitors of S. suis adhesins. Organic and Biomolecular Chemistry, 2005, 3, 886-900.	1.5	27
83	Toward the Design of Molecular Chameleons: Flexible Shielding of an Amide Bond Enhances Macrocycle Cell Permeability. Organic Letters, 2018, 20, 5737-5742.	2.4	27
84	Preparation of a glycopeptide analogue of type II collagen â€" Use of acid labile protective groups for carbohydrate moieties in solid phase synthesis of O-linked glycopeptides. Tetrahedron Letters, 1996, 37, 3011-3014.	0.7	25
85	Glycopeptide Specificity of Helper T Cells Obtained in Mouse Models for Rheumatoid Arthritis. ChemBioChem, 2002, 3, 1209-1222.	1.3	25
86	Synthesis of a C-Glycoside Analogue of Î²-d-Galactosyl Hydroxylysine and Incorporation in a Glycopeptide from Type II Collagen. Journal of Organic Chemistry, 2006, 71, 1911-1919.	1.7	25
87	Mining Natural Products for Macrocycles to Drug Difficult Targets. Journal of Medicinal Chemistry, 2021, 64, 1054-1072.	2.9	25
88	A Total Synthesis of Hydroxylysine in Protected Form and Investigations of the Reductive Opening of p-Methoxybenzylidene Acetals. Journal of Organic Chemistry, 2004, 69, 8694-8701.	1.7	24
89	Piperidine is preferable to morpholine for Fmoc cleavage in solid phase synthesis of O-linked glycopeptides. Tetrahedron Letters, 1993, 34, 6135-6138.	0.7	23
90	[11] Direct synthesis of glycosylated amino acids from carbohydrate peracetates and Fmoc amino acids: Solid-phase synthesis of biomedicinally interesting glycopeptides. Methods in Enzymology, 1997, 289, 221-245.	0.4	23

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91	Synthesis of aC-Glycoside Analogue ofÎ²-D-Galactosyl Hydroxynorvaline and Its Use in Immunological Studies. ChemBioChem, 2000, 1, 272-280.	1.3	23
92	Cutting Edge: Processing of Oxidized Peptides in Macrophages Regulates T Cell Activation and Development of Autoimmune Arthritis. Journal of Immunology, 2017, 199, 3937-3942.	0.4	23
93	PROTAC cell permeability and oral bioavailability: a journey into uncharted territory. Future Medicinal Chemistry, 2022, 14, 123-126.	1.1	23
94	Building blocks for glycopeptide synthesis: Preparation of Î±-O-fucosylated fmoc serine and threonine in one step from L-fucose tetraacetate. Tetrahedron Letters, 1996, 37, 7645-7648.	0.7	21
95	9-BBN as a convenient protecting group in functionalisation of hydroxylysine. Tetrahedron, 2004, 60, 5571-5575.	1.0	21
96	Reactive Oxygen Species Regulate Both Priming and Established Arthritis, but with Different Mechanisms. Antioxidants and Redox Signaling, 2017, 27, 1473-1490.	2.5	21
97	Macrocyclic Peptides Uncover a Novel Binding Mode for Reversible Inhibitors of LSD1. ACS Omega, 2020, 5, 3979-3995.	1.6	21
98	Preparation and calculated conformations of the 2â€²-, 3â€²-, 4â€²-, and 6â€²-deoxy, 3â€²-O-methyl, 4â€²-epi, and 4â€²- and 6â€²-deoxyfluoro derivatives of methyl 4-O-Î±-d-galactopyranosyl-Î²-d-galactopyranoside (methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4	1.1	21
99	An approach to enantiomerically pure inverse Î³-turn mimetics for use in solid-phase synthesis. Tetrahedron Letters, 1997, 38, 3651-3654.	0.7	20
100	Synthesis of a Î²-strand mimetic based on a pyridine scaffold. Tetrahedron, 2006, 62, 10937-10944.	1.0	20
101	Is GPR146 really the receptor for proinsulin C-peptide?. Bioorganic and Medicinal Chemistry Letters, 2020, 30, 127208.	1.0	20
102	Diastereoselective synthesis of methyl Î±-kedarosaminide, a carbohydrate moiety of the enediyne antitumor antibiotic kedarcidin chromophore. Tetrahedron Letters, 1994, 35, 6937-6940.	0.7	19
103	Synthesis of Tn and sialyl Tn building blocks for solid phase glycopeptide synthesis. Tetrahedron Letters, 1995, 36, 7499-7502.	0.7	19
104	Oxazole-modified glycopeptides that target arthritis-associated class II MHC Aq and DR4 proteins. Organic and Biomolecular Chemistry, 2010, 8, 2931.	1.5	19
105	Convergent synthesis of neoglycopeptides by coupling of 2-bromoethyl glycosides to cysteine and homocysteine residues in T cell stimulating peptides. Glycoconjugate Journal, 1998, 15, 223-231.	1.4	18
106	Fluorinated Protective Groups for On-Resin Quantification of Solid-Phase Oligosaccharide Synthesis with19F NMR Spectroscopy. ChemBioChem, 2002, 3, 1266-1269.	1.3	18
107	Gel-phase19F NMR spectral quality for resins commonly used in solid-phase organic synthesis; a study of peptide solid-phase glycosylations. Organic and Biomolecular Chemistry, 2004, 2, 1770-1776.	1.5	18
108	A Fluorinated Selenide Linker for Solid-Phase Synthesis ofn-Pentenyl Glycosides. Organic Letters, 2004, 6, 4885-4888.	2.4	18

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109	NMR studies of interactions between periplasmic chaperones from uropathogenic E. coli and pilicides that interfere with chaperone function and pilus assembly. Organic and Biomolecular Chemistry, 2005, 3, 4193.	1.5	18
110	The effect of glycosylation on the structure of designed four-helix bundle motifs. Perkin Transactions II RSC, 2000, , 459-464.	1.1	17
111	Preparation of partially 2H/13C-labelled RNA for NMR studies. Stereo-specific deuteration of the H5'' in nucleotides. Nucleic Acids Research, 2002, 30, 1639-1645.	6.5	17
112	Conformations and Receptor Activity of Desmopressin Analogues, Which Contain Î³-Turn Mimetics or a Î¨[CH2O] Isostere. Journal of Medicinal Chemistry, 2002, 45, 2501-2511.	2.9	17
113	Identification of the minimal glycopeptide core recognized by T cells in a model for rheumatoid arthritis. Bioorganic and Medicinal Chemistry, 2005, 13, 473-482.	1.4	17
114	Formation of lactones from sialylated MUC1 glycopeptides. Organic and Biomolecular Chemistry, 2006, 4, 713.	1.5	17
115	Probing Molecular Interactions within Class II MHC A^q/Glycopeptide/T-Cell Receptor Complexes Associated with Collagen-Induced Arthritis. Journal of Medicinal Chemistry, 2007, 50, 5627-5643.	2.9	17
116	Cell Permeability of Isomeric Macrocycles: Predictions and NMR Studies. ACS Medicinal Chemistry Letters, 2021, 12, 983-990.	1.3	17
117	Synthesis and biological evaluation of leucine enkephalin turn mimetics. Organic and Biomolecular Chemistry, 2006, 4, 416.	1.5	15
118	Role of the galactosyl moiety of collagen glycopeptides for T-Cell stimulation in a model for rheumatoid arthritis. Bioorganic and Medicinal Chemistry, 2003, 11, 3981-3987.	1.4	14
119	Design of Glycopeptides Used to Investigate Class II MHC Binding and T-Cell Responses Associated with Autoimmune Arthritis. PLoS ONE, 2011, 6, e17881.	1.1	14
120	Importance of Binding Site Hydration and Flexibility Revealed When Optimizing a Macrocyclic Inhibitor of the Keap1â€“Nrf2 Proteinâ€“Protein Interaction. Journal of Medicinal Chemistry, 2022, 65, 3473-3517.	2.9	14
121	Diastereoselective Synthesis of the Monosaccharide Kedarosamine and Incorporation in an Analogue of the Enediyne Kedarcidin Chromophore. Journal of Organic Chemistry, 1998, 63, 279-286.	1.7	13
122	Synthesis and evaluation of novel pyridine based PLG tripeptidomimetics. Organic and Biomolecular Chemistry, 2008, 6, 1647.	1.5	13
123	(E)-Alkene and Ethylene Isosteres Substantially Alter the Hydrogen-Bonding Network in Class II MHC A^q/Glycopeptide Complexes and Affect T-Cell Recognition. Journal of the American Chemical Society, 2011, 133, 14368-14378.	6.6	13
124	3-Aminopiperidine-Based Peptide Analogues as the First Selective Noncovalent Inhibitors of the Bacterial Cysteine Protease IdeS. Journal of Medicinal Chemistry, 2012, 55, 2549-2560.	2.9	13
125	Conformation of the Macrocyclic Drug Lorlatinib in Polar and Nonpolar Environments: A MD Simulation and NMR Study. ACS Omega, 2019, 4, 22245-22250.	1.6	13
126	Docking Finds GPCR Ligands in Dark Chemical Matter. Journal of Medicinal Chemistry, 2020, 63, 613-620.	2.9	13

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127	Unexpected formation of the 3,6-anhydro and 6-O-methyl-1-fluoro derivatives of galabiose on attempted substitution of HO-6 by fluorine in methyl 4-O-Î±-d-galactopyranosyl-Î²-d-galactopyranoside (methyl Î²-d-galabioside). Carbohydrate Research, 1988, 176, 287-294.	1.1	12
128	Binding of peptides in solution by the Escherichia coli chaperone PapD as revealed using an inhibition ELISA and NMR spectroscopy. Bioorganic and Medicinal Chemistry, 1998, 6, 2085-2101.	1.4	12
129	Influence of saccharide size on the cellular immune response to glycopeptides. Organic and Biomolecular Chemistry, 2003, 1, 2063-2069.	1.5	12
130	Side-chain and backbone amide bond requirements for glycopeptide stimulation of T-cells obtained in a mouse model for rheumatoid arthritis. Bioorganic and Medicinal Chemistry, 2006, 14, 5921-5932.	1.4	12
131	Structureâ€Guided Design of Gâ€Proteinâ€Coupled Receptor Polypharmacology. Angewandte Chemie - International Edition, 2021, 60, 18022-18030.	7.2	12
132	Key interactions in the trimolecular complex consisting of the rheumatoid arthritis-associated DRB1*04:01 molecule, the major glycosylated collagen II peptide and the T-cell receptor. Annals of the Rheumatic Diseases, 2022, 81, 480-489.	0.5	12
133	Preparation and structural characterization of N-glycated amino acid and linear or cyclic dipeptides containing the 6-amino-6-deoxy-1,2:3,4-di-O-isopropylidene-Î±-d-galactopyranose moiety. Carbohydrate Research, 1996, 287, 1-19.	1.1	11
134	Stereoselective Synthesis of Î¨[CH 2 O] Pseudodipeptides and Conformational Analysis of a PheÎ¨[CH 2 O]Ala Containing Analogue of the Drug Desmopressin. Bioorganic and Medicinal Chemistry Letters, 2002, 12, 841-844.	1.0	11
135	Fragment-based design of selective GPCR ligands guided by free energy simulations. Chemical Communications, 2021, 57, 12305-12308.	2.2	11
136	Quantitative Structureâ^'Activity Relationship of Peptides Binding to the Class II Major Histocompatibility Complex Molecule AqAssociated with Autoimmune Arthritis. Journal of Medicinal Chemistry, 2007, 50, 2049-2059.	2.9	10
137	Integrative approaches in HIV â€1 nonâ€nucleoside reverse transcriptase inhibitor design. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2018, 8, e1328.	6.2	10
138	A Shared Epitope of Collagen Type XI and Type II Is Recognized by Pathogenic Antibodies in Mice and Humans with Arthritis. Frontiers in Immunology, 2018, 9, 451.	2.2	10
139	The structure of a novel sesquiterpene furna alcohol with a lactarane skeleton. Tetrahedron Letters, 1983, 24, 4631-4632.	0.7	9
140	High-Pressure Approach to the Synthesis of Optically Pure Methyl 4-Deoxyheptosides. Journal of Carbohydrate Chemistry, 1985, 4, 447-450.	0.4	9
141	Deacetylation of NÎ±-methylated glycopeptides reveals that aza-enolates provide protection against Î²-elimination of carbohydrates O-linked to serine. Tetrahedron Letters, 2000, 41, 4435-4439.	0.7	9
142	Solubility prediction in the bRo5 chemical space: where are we right now?. ADMET and DMPK, 2020, 8, 207-214.	1.1	9
143	Synthesis of a water-soluble serine-based neoglycolipid which can be covalently linked to solid phases. Carbohydrate Research, 1994, 258, 123-133.	1.1	8
144	Synthesis of a novel Î²-turn mimetic and its incorporation in Leu-enkephalin. Tetrahedron Letters, 1999, 40, 6113-6116.	0.7	8

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145	Chemoenzymatic synthesis of derivatives of a T-cell-stimulating peptide which carry tumor-associated carbohydrate antigens. Journal of the Chemical Society, Perkin Transactions 1, 2001, , 880-885.	1.3	8
146	Synthesis of a Î²-turn mimetic suitable for incorporation in the peptide hormone LHRH. Tetrahedron, 2005, 61, 4901-4909.	1.0	8
147	Gene Therapy Induces Antigen-Specific Tolerance in Experimental Collagen-Induced Arthritis. PLoS ONE, 2016, 11, e0154630.	1.1	8
148	Collagen epitope expression on B cells is sufficient to confer tolerance to collagen-induced arthritis. Arthritis Research and Therapy, 2016, 18, 140.	1.6	8
149	Synthesis of Substrates for Aldolase-Catalysed Reactions: A Comparison of Methods for the Synthesis of Substituted Phenylacetaldehydes. Synlett, 2018, 29, 1187-1190.	1.0	8
150	[10] Specificity mapping of bacterial lectins by inhibition of hemagglutination using deoxy and deoxyfluoro analogs of receptor-active saccharides. Methods in Enzymology, 1995, 253, 105-114.	0.4	7
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