Mattie Timmer

List of Publications by Year
in descending order

92 papers	2,271 citations	186265 28 h-index	254184 43 g-index
109 all docs	109 docs citations	109 times ranked	2458 citing authors

#	Article	IF	Citations
1	Recent Developments in the Synthesis of Pyrrolidineâ€Containing Iminosugars. European Journal of Organic Chemistry, 2010, 2010, 1615-1637.	2.4	165
2	Protecting-Group-Free Synthesis of Amines: Synthesis of Primary Amines from Aldehydes via Reductive Amination. Journal of Organic Chemistry, 2010, 75, 5470-5477.	3.2	92
3	An Unusual Reverse Turn Structure Adopted by a Furanoid Sugar Amino Acid Incorporated in Gramicidin S. Journal of the American Chemical Society, 2004, 126, 3444-3446.	13.7	90
4	Longâ€Chain Lipids Are Required for the Innate Immune Recognition of Trehalose Diesters by Macrophages. ChemBioChem, 2011, 12, 2572-2576.	2.6	70
5	The anti-cancer, anti-inflammatory and tuberculostatic activities of a series of 6,7-substituted-5,8-quinolinequinones. Bioorganic and Medicinal Chemistry, 2010, 18, 3238-3251.	3.0	68
6	Total Synthesis of Aigialomycin D Using a Rambergâ^'BÃcklund/RCM Strategy. Journal of Organic Chemistry, 2009, 74, 2271-2277.	3.2	66
7	Synthesis of functionalized heterocycles via a tandem Staudinger/aza-Wittig/Ugi multicomponent reaction. Tetrahedron: Asymmetry, 2005, 16, 177-185.	1.8	65
8	De Novo Synthesis of Uronic Acid Building Blocks for Assembly of Heparin Oligosaccharides. Chemistry - A European Journal, 2007, 13, 4510-4522.	3.3	64
9	Trehalose glycolipidsâ€"synthesis and biological activities. Carbohydrate Research, 2012, 356, 25-36.	2.3	64
10	Total Synthesis Without Protecting Groups: Pyrrolidines and Cyclic Carbamates. Organic Letters, 2009, 11, 535-538.	4.6	58
11	Probing glycomics. Current Opinion in Chemical Biology, 2007, 11, 59-65.	6.1	57
12	On One Leg: Trehalose Monoesters Activate Macrophages in a Mincleâ€Dependent Manner. ChemBioChem, 2014, 15, 382-388.	2.6	55
13	A Short Route toward Chiral, Polyhydroxylated Indolizidines and Quinolizidines. Journal of Organic Chemistry, 2003, 68, 9598-9603.	3.2	54
14	Synthesis of phosphorus mono- and bicycles by catalytic ring-closing metathesis. Tetrahedron Letters, 2001, 42, 8231-8233.	1.4	52
15	C-type Lectin Mincle Recognizes Glucosyl-diacylglycerol of Streptococcus pneumoniae and Plays a Protective Role in Pneumococcal Pneumonia. PLoS Pathogens, 2016, 12, e1006038.	4.7	51
16	Short De Novo Synthesis of Fully Functionalized Uronic Acid Monosaccharides. Angewandte Chemie - International Edition, 2005, 44, 7605-7607.	13.8	44
17	Helicobacter pylori metabolites exacerbate gastritis through C-type lectin receptors. Journal of Experimental Medicine, 2021, 218, .	8.5	44
18	Isolation and structural characterisation of the major glycolipids from Lactobacillus plantarum. Carbohydrate Research, 2012, 357, 151-156.	2.3	42

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19	A Practical Synthesis of Gramicidin S and Sugar Amino Acid Containing Analogues. Journal of Organic Chemistry, 2004, 69, 7851-7859.	3.2	39
20	Lipidated Brartemicin Analogues Are Potent Th1-Stimulating Vaccine Adjuvants. Journal of Medicinal Chemistry, 2018, 61, 1045-1060.	6.4	39
21	Activation of type II NADH dehydrogenase by quinolinequinones mediates antitubercular cell death. Journal of Antimicrobial Chemotherapy, 2016, 71, 2840-2847.	3.0	38
22	An expeditious route to phosphorus heterocycles based on ring-closing metathesis. Tetrahedron Letters, 2000, 41, 8635-8638.	1.4	36
23	The Mincle ligand trehalose dibehenate differentially modulates M1â€like and M2â€like macrophage phenotype and function via Syk signaling. Immunity, Inflammation and Disease, 2017, 5, 503-514.	2.7	36
24	Identification and Biological Activity of Synthetic Macrophage Inducible C-Type Lectin Ligands. Frontiers in Immunology, 2017, 8, 1940.	4.8	35
25	Lighting up sugars: fluorescent BODIPYâ€“gluco-furanose and â€“septanose conjugates linked by direct Bâ€“Oâ€“C bonds. Organic and Biomolecular Chemistry, 2016, 14, 5205-5209.	2.8	33
26	The Use of a Mannitol-Derived Fused Oxacycle as a Combinatorial Scaffold. Journal of Organic Chemistry, 2003, 68, 9406-9411.	3.2	32
27	Amphiphilic xanthones as a potent chemical entity of anti-mycobacterial agents with membrane-targeting properties. European Journal of Medicinal Chemistry, 2016, 123, 684-703.	5.5	30
28	Carbohydrates as versatile platforms in the construction of small compound libraries. Pure and Applied Chemistry, 2005, 77, 1173-1181.	1.9	29
29	An improved synthesis of dansylated Î±-galactosylceramide and its use as a fluorescent probe for the monitoring of glycolipid uptake by cells. Carbohydrate Research, 2011, 346, 914-926.	2.3	29
30	Chemical Tools for Studying the Biological Function of Glycolipids. ChemBioChem, 2013, 14, 1164-1184.	2.6	27
31	An Expedient Synthesis of the Repeating Unit of the Acidic Polysaccharide of the Bacteriolytic Complex of Lysoamidase. Chemistry - A European Journal, 2005, 11, 1010-1016.	3.3	26
32	Stereocontrolled synthesis of fully functionalized d-glucosamine monosaccharides via a domino nitro-Michael/Henry reaction. Chemical Communications, 2008, , 3549.	4.1	26
33	Synthesis of Branched Trehalose Glycolipids and Their Mincle Agonist Activity. Journal of Organic Chemistry, 2018, 83, 7593-7605.	3.2	26
34	A fast, efficient and stereoselective synthesis of hydroxy-pyrrolidines. Carbohydrate Research, 2010, 345, 1360-1365.	2.3	25
35	Speciesâ€Specific Activity of Glycolipid Ligands for Invariant NKT Cells. ChemBioChem, 2012, 13, 1349-1356.	2.6	25
36	Lipid length and iso-branching of trehalose diesters influences Mincle agonist activity. Tetrahedron, 2018, 74, 1269-1277.	1.9	25

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37	Azâ€”a colourful azulene-derived protecting group. Tetrahedron Letters, 2009, 50, 7199-7204.	1.4	24
38	The Rapid and Facile Synthesis of Oxyamine Linkers for the Preparation of Hydrolytically Stable Glycoconjugates. Organic Letters, 2015, 17, 624-627.	4.6	21
39	Applications and Limitations of the I2-Mediated Carbamate Annulation for the Synthesis of Piperidines: Five- versus Six-Membered Ring Formation. Journal of Organic Chemistry, 2013, 78, 9791-9802.	3.2	20
40	De Novo Synthesis of Aceric Acid and an Aceric Acid Building Block. Journal of Organic Chemistry, 2006, 71, 8294-8297.	3.2	19
41	Stereoselective Total Synthesis of Aminoiminohexitols via Carbamate Annulation. Journal of Organic Chemistry, 2011, 76, 9611-9621.	3.2	19
42	Development of a benzophenone and alkyne functionalised trehalose probe to study trehalose dimycolate binding proteins. Organic and Biomolecular Chemistry, 2013, 11, 881-885.	2.8	19
43	The Uptake of Trehalose Glycolipids by Macrophages Is Independent of Mincle. ChemBioChem, 2015, 16, 683-693.	2.6	19
44	The synthesis and evaluation of quinolinequinones as anti-mycobacterial agents. Bioorganic and Medicinal Chemistry, 2019, 27, 3532-3545.	3.0	19
45	ortho-Substituted lipidated Brartemicin derivative shows promising Mincle-mediated adjuvant activity. Organic and Biomolecular Chemistry, 2020, 18, 1095-1103.	2.8	18
46	Stereoselective Strecker and Carbamate Annulation Methodology for the Synthesis of 1â€Aminoâ€1,2,5â€trideoxyâ€2,5â€iminoâ€<scp>L</scp>â€iditol. European Journal of Organic Chemistry, 2011, 2011, 4008-4014.	2.8	16
47	The effect of MR1 ligand glyco-analogues on mucosal-associated invariant T (MAIT) cell activation. Organic and Biomolecular Chemistry, 2019, 17, 8992-9000.	2.8	15
48	The effects of trehalose glycolipid presentation on cytokine production by GM-CSF macrophages. Glycoconjugate Journal, 2019, 36, 69-78.	2.7	15
49	Rapid synthesis of 1-deoxygalactonojirimycin using a carbamate annulation. Tetrahedron Letters, 2011, 52, 4803-4805.	1.4	13
50	The â€˜mirror-imageâ€™ postulate as a guide to the selection and evaluation of pyrrolidines as Î±-l-fucosidase inhibitors. Carbohydrate Research, 2013, 367, 29-32.	2.3	13
51	Selective Crossâ€Metathesis ofCâ€Allylâ€Glycosides. Journal of Carbohydrate Chemistry, 2005, 24, 335-351.	1.1	12
52	Synthesis and Biological Activity of the Lipoteichoic Acid Anchor from Streptococcus sp. DSM 8747. ChemBioChem, 2012, 13, 2416-2424.	2.6	11
53	I2-mediated carbamate annulation: scope and application in the synthesis of azasugars. Carbohydrate Research, 2012, 356, 163-171.	2.3	11
54	A divergent approach to the synthesis of iGb3 sugar and lipid analogues via a lactosyl 2-azido-sphingosine intermediate. Organic and Biomolecular Chemistry, 2014, 12, 2729-2736.	2.8	11

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55	Agonistic or antagonistic mucosal-associated invariant T (MAIT) cell activity is determined by the 6-alkylamino substituent on uracil MR1 ligands. Chemical Communications, 2020, 56, 5291-5294.	4.1	11
56	Energy Transfer between Anthracene-9-carboxylic Acid Ligands and CsPbBr₃ and CsPbI₃ Nanocrystals. Journal of Physical Chemistry C, 2021, 125, 1447-1453.	3.1	11
57	The Synthesis of Longâ€Chain Î±â€Alkylâ€Î²â€Hydroxy Esters Using Allylic Halides in a FrÃ¡terâ€“Seebach Alkylation. European Journal of Organic Chemistry, 2012, 2012, 995-1002.	2.4	10
58	The Ligands of C-Type Lectins. , 2016, , 191-215.		10
59	MSU Crystals Enhance TDB-Mediated Inflammatory Macrophage IL-1Î² Secretion. Inflammation, 2019, 42, 1129-1136.	3.8	10
60	Cholesteryl glucosides signal through the carbohydrate recognition domain of the macrophage inducible C-type lectin (mincle). Organic and Biomolecular Chemistry, 2021, 19, 2198-2202.	2.8	10
61	Trehalose diamide glycolipids augment antigen-specific antibody responses in a Mincle-dependent manner. Bioorganic Chemistry, 2021, 110, 104747.	4.1	10
62	Trehalose diesters, lipoteichoic acids and Î±-GalCer: using chemistry to understand immunology. Carbohydrate Research, 2014, 389, 3-11.	2.3	9
63	Synthesis and Investigation of Phthalazinones as Antitubercular Agents. Chemistry - an Asian Journal, 2019, 14, 1278-1285.	3.3	9
64	The versatility of N-alkyl-methoxyamine bi-functional linkers for the preparation of glycoconjugates. Glycoconjugate Journal, 2017, 34, 633-642.	2.7	8
65	An efficient synthesis of a 6â€³-BODIPY-Î±-Galactosylceramide probe for monitoring Î±-Galactosylceramide uptake by cells. Carbohydrate Research, 2019, 486, 107840.	2.3	8
66	Stereochemistry, lipid length and branching influences Mincle agonist activity of monoacylglycerides. Organic and Biomolecular Chemistry, 2020, 18, 425-430.	2.8	8
67	Overexpression of Macrophage-Inducible C-Type Lectin Mincle Aggravates Proinflammatory Responses to Streptococcus pneumoniae with Fatal Outcome in Mice. Journal of Immunology, 2020, 205, 3390-3399.	0.8	7
68	Amide-linked brartemicin glycolipids exhibit Mincle-mediated agonist activity in vitro. Carbohydrate Research, 2022, 511, 108461.	2.3	7
69	Claisen self-condensation/decarboxylation as the key steps in the synthesis of C2-symmetrical 1,7-dioxaspiro[5.5]undecanes. Tetrahedron Letters, 2005, 46, 6195-6198.	1.4	6
70	Discovery of Lipids from B. longum subsp. infantis using Whole Cell MALDI Analysis. Journal of Organic Chemistry, 2014, 79, 7332-7341.	3.2	6
71	Total synthesis of LewisX using a late-stage crystalline intermediate. Carbohydrate Research, 2015, 414, 1-7.	2.3	6
72	The synthesis of the molecular chaperone 2,5-dideoxy-2,5-imino-d-altritol via diastereoselective reductive amination and carbamate annulation. Tetrahedron, 2018, 74, 1307-1312.	1.9	6

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73	The coadministration of trehalose dibehenate and monosodium urate crystals promotes an antitumor phenotype in humanâ€derived myeloid cells. Immunology and Cell Biology, 2020, 98, 411-422.	2.3	6
74	Transformation of Glucose into a Novel Carbasugar Amino Acid Dipeptide Isostere. Journal of Carbohydrate Chemistry, 2007, 26, 41-59.	1.1	5
75	N,N-Bis(glycityl)amines as anti-cancer drugs. Bioorganic and Medicinal Chemistry, 2016, 24, 3932-3939.	3.0	5
76	Synthesis and Hydrolytic Stability of Nâ€•and Oâ€Methyloxyamine Linkers for the Synthesis of GlycoconjugatesSynthesis and Hydrolytic Stability of Nâ€•and Oâ€Methyloxyamine Linkers for the Synthesis of Glycoconjugates. European Journal of Organic Chemistry, 2017, 2017, 3722-3728.	2.4	5
77	Synthesis of Functionalised Chromonylâ€pyrimidines and Their Potential as Antimycobacterial Agents. ChemistrySelect, 2020, 5, 4347-4355.	1.5	5
78	The modular synthesis of multivalent functionalised glycodendrons for the detection of lectins including DC-SIGN. RSC Advances, 2017, 7, 45260-45268.	3.6	4
79	Evaluation of anti Î±-<scp>d</scp>-Glcp-(1â†’4)-Î±-<scp>d</scp>-Glcp (GAGA4) IgM antibodies as a biomarker for multiple sclerosis. RSC Advances, 2018, 8, 28086-28093.	3.6	4
80	Synthesis of Î±-Glucosyl Diacylglycerides as potential adjuvants for Streptococcus pneumoniae vaccines. Carbohydrate Research, 2020, 489, 107951.	2.3	4
81	Endogenous and Exogenous CD1-Binding Glycolipids. International Journal of Carbohydrate Chemistry, 2011, 2011, 1-13.	1.5	3
82	Synthesis of mycothiol conjugate analogues and evaluation of their antimycobacterial activity. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 2152-2155.	2.2	3
83	Methyl 6-deoxy-6-iodo-Î±-D-galactoside. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, o1724-o1724.	0.2	2
84	Synthesis and anti-tuberculosis activity of glycitylamines. Bioorganic and Medicinal Chemistry, 2016, 24, 693-702.	3.0	2
85	Diastereoselective Carbamate Annulation for the Synthesis of 2,5â€Dideoxyâ€2,5â€iminoglycitols. ChemistrySelect, 2017, 2, 8028-8032.	1.5	2
86	The NKT cell TCR repertoire can accommodate structural modifications to the lipid and orientation of the terminal carbohydrate of iGb3. RSC Advances, 2022, 12, 18493-18500.	3.6	2
87	A Tandem Ring-Closing Metathesis Cleavable Linker System for Solid-Phase Oligosaccharide Synthesis. Synlett, 2004, 2004, 2155-2158.	1.8	1
88	N-(2-Acetamido-2-deoxy-Î²-D-glucopyranosyl)-N-(3-azidopropyl)-O-methylhydroxylamine. Acta Crystallographica Section E: Crystallographic Communications, 2016, 72, 340-342.	0.5	1
89	Synthesis of Functionalized Heterocycles via a Tandem Staudinger/Aza-Wittig/Ugi Multicomponent Reaction.. ChemInform, 2005, 36, no.	0.0	0
90	Carbohydrates as Versatile Platforms in the Construction of Small Compound Libraries. ChemInform, 2005, 36, no.	0.0	0

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91	Methyl 6-azido-6-deoxy-Î±-D-galactoside. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, o1941-o1942.	0.2	0
92	Lipophilic glucose monoesters and glycosides are potent human Mincle agonists. Organic and Biomolecular Chemistry, 2022, , .	2.8	0