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	Amide-linked brartemicin glycolipids exhibit Mincle-mediated agonist activity in vitro. Carbohydrate Research, 2022, 511, 108461.	2.3	7
2	Lipophilic glucose monoesters and glycosides are potent human Mincle agonists. Organic and Biomolecular Chemistry, 2022, , .	2.8	0
3	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
4	Helicobacter pylori metabolites exacerbate gastritis through C-type lectin receptors. Journal of Experimental Medicine, 2021, 218, .	8.5	44
5	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
6	Trehalose diamide glycolipids augment antigen-specific antibody responses in a Mincle-dependent manner. Bioorganic Chemistry, 2021, 110, 104747.	4.1	10
7	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
8	ortho-Substituted lipidated Brartemicin derivative shows promising Mincle-mediated adjuvant activity. Organic and Biomolecular Chemistry, 2020, 18, 1095-1103.	2.8	18
9	Stereochemistry, lipid length and branching influences Mincle agonist activity of monoacylglycerides. Organic and Biomolecular Chemistry, 2020, 18, 425-430.	2.8	8
10	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
11	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
12	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
13	Synthesis of Î±-Glucosyl Diacylglycerides as potential adjuvants for Streptococcus pneumoniae vaccines. Carbohydrate Research, 2020, 489, 107951.	2.3	4
14	Synthesis of Functionalised Chromonylâ€pyrimidines and Their Potential as Antimycobacterial Agents. ChemistrySelect, 2020, 5, 4347-4355.	1.5	5
15	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
16	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
17	Synthesis and Investigation of Phthalazinones as Antitubercular Agents. Chemistry - an Asian Journal, 2019, 14, 1278-1285.	3.3	9
18	The synthesis and evaluation of quinolinequinones as anti-mycobacterial agents. Bioorganic and Medicinal Chemistry, 2019, 27, 3532-3545.	3.0	19

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19	MSU Crystals Enhance TDB-Mediated Inflammatory Macrophage IL-1Î² Secretion. Inflammation, 2019, 42, 1129-1136.	3.8	10
20	The effects of trehalose glycolipid presentation on cytokine production by GM-CSF macrophages. Glycoconjugate Journal, 2019, 36, 69-78.	2.7	15
21	Lipidated Brartemicin Analogues Are Potent Th1-Stimulating Vaccine Adjuvants. Journal of Medicinal Chemistry, 2018, 61, 1045-1060.	6.4	39
22	Lipid length and iso-branching of trehalose diesters influences Mincle agonist activity. Tetrahedron, 2018, 74, 1269-1277.	1.9	25
23	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
24	Synthesis of Branched Trehalose Glycolipids and Their Mincle Agonist Activity. Journal of Organic Chemistry, 2018, 83, 7593-7605.	3.2	26
25	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
26	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
27	Diastereoselective Carbamate Annulation for the Synthesis of 2,5â€Dideoxyâ€2,5â€iminoglycitols. ChemistrySelect, 2017, 2, 8028-8032.	1.5	2
28	The modular synthesis of multivalent functionalised glycodendrons for the detection of lectins including DC-SIGN. RSC Advances, 2017, 7, 45260-45268.	3.6	4
29	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
30	The versatility of N-alkyl-methoxyamine bi-functional linkers for the preparation of glycoconjugates. Glycoconjugate Journal, 2017, 34, 633-642.	2.7	8
31	Identification and Biological Activity of Synthetic Macrophage Inducible C-Type Lectin Ligands. Frontiers in Immunology, 2017, 8, 1940.	4.8	35
32	Activation of type II NADH dehydrogenase by quinolinequinones mediates antitubercular cell death. Journal of Antimicrobial Chemotherapy, 2016, 71, 2840-2847.	3.0	38
33	The Ligands of C-Type Lectins. , 2016, , 191-215.		10
34	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
35	N,N-Bis(glycityl)amines as anti-cancer drugs. Bioorganic and Medicinal Chemistry, 2016, 24, 3932-3939.	3.0	5
36	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

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37	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
38	Synthesis and anti-tuberculosis activity of glycitylamines. Bioorganic and Medicinal Chemistry, 2016, 24, 693-702.	3.0	2
39	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
40	The Rapid and Facile Synthesis of Oxyamine Linkers for the Preparation of Hydrolytically Stable Glycoconjugates. Organic Letters, 2015, 17, 624-627.	4.6	21
41	The Uptake of Trehalose Glycolipids by Macrophages Is Independent of Mincle. ChemBioChem, 2015, 16, 683-693.	2.6	19
42	Total synthesis of LewisX using a late-stage crystalline intermediate. Carbohydrate Research, 2015, 414, 1-7.	2.3	6
43	Synthesis of mycothiol conjugate analogues and evaluation of their antimycobacterial activity. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 2152-2155.	2.2	3
44	Trehalose diesters, lipoteichoic acids and Î±-GalCer: using chemistry to understand immunology. Carbohydrate Research, 2014, 389, 3-11.	2.3	9
45	On One Leg: Trehalose Monoesters Activate Macrophages in a Mincleâ€Ðependent Manner. ChemBioChem, 2014, 15, 382-388.	2.6	55
46	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
47	Discovery of Lipids from B. longum subsp. infantis using Whole Cell MALDI Analysis. Journal of Organic Chemistry, 2014, 79, 7332-7341.	3.2	6
48	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
49	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
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	Chemical Tools for Studying the Biological Function of Glycolipids. ChemBioChem, 2013, 14, 1164-1184.	2.6	27
52	Synthesis and Biological Activity of the Lipoteichoic Acid Anchor from Streptococcus sp. DSM 8747. ChemBioChem, 2012, 13, 2416-2424.	2.6	11
53	Isolation and structural characterisation of the major glycolipids from Lactobacillus plantarum. Carbohydrate Research, 2012, 357, 151-156.	2.3	42
54	Speciesâ€Specific Activity of Glycolipid Ligands for Invariant NKT Cells. ChemBioChem, 2012, 13, 1349-1356.	2.6	25

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55	Trehalose glycolipidsâ€”synthesis and biological activities. Carbohydrate Research, 2012, 356, 25-36.	2.3	64
56	I2-mediated carbamate annulation: scope and application in the synthesis of azasugars. Carbohydrate Research, 2012, 356, 163-171.	2.3	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	Stereoselective Total Synthesis of Aminoiminohexitols via Carbamate Annulation. Journal of Organic Chemistry, 2011, 76, 9611-9621.	3.2	19
59	Rapid synthesis of 1-deoxygalactonojirimycin using a carbamate annulation. Tetrahedron Letters, 2011, 52, 4803-4805.	1.4	13
60	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
61	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.	2.4	16
62	Longâ€Chain Lipids Are Required for the Innate Immune Recognition of Trehalose Diesters by Macrophages. ChemBioChem, 2011, 12, 2572-2576.	2.6	70
63	Endogenous and Exogenous CD1-Binding Glycolipids. International Journal of Carbohydrate Chemistry, 2011, 2011, 1-13.	1.5	3
64	Methyl 6-azido-6-deoxy-Î±-D-galactoside. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, o1941-o1942.	0.2	0
65	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
66	A fast, efficient and stereoselective synthesis of hydroxy-pyrrolidines. Carbohydrate Research, 2010, 345, 1360-1365.	2.3	25
67	Recent Developments in the Synthesis of Pyrrolidineâ€Containing Iminosugars. European Journal of Organic Chemistry, 2010, 2010, 1615-1637.	2.4	165
68	Methyl 6-deoxy-6-iodo-Î±-D-galactoside. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, o1724-o1724.	0.2	2
69	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
70	Azâ€”a colourful azulene-derived protecting group. Tetrahedron Letters, 2009, 50, 7199-7204.	1.4	24
71	Total Synthesis Without Protecting Groups: Pyrrolidines and Cyclic Carbamates. Organic Letters, 2009, 11, 535-538.	4.6	58
72	Total Synthesis of Aigialomycin D Using a Rambergâ€'BÃcklund/RCM Strategy. Journal of Organic Chemistry, 2009, 74, 2271-2277.	3.2	66

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73	Stereocontrolled synthesis of fully functionalized d-glucosamine monosaccharides via a domino nitro-Michael/Henry reaction. Chemical Communications, 2008, , 3549.	4.1	26
74	Transformation of Glucose into a Novel Carbasugar Amino Acid Dipeptide Isostere. Journal of Carbohydrate Chemistry, 2007, 26, 41-59.	1.1	5
75	De Novo Synthesis of Uronic Acid Building Blocks for Assembly of Heparin Oligosaccharides. Chemistry - A European Journal, 2007, 13, 4510-4522.	3.3	64
76	Probing glycomics. Current Opinion in Chemical Biology, 2007, 11, 59-65.	6.1	57
77	De Novo Synthesis of Aceric Acid and an Aceric Acid Building Block. Journal of Organic Chemistry, 2006, 71, 8294-8297.	3.2	19
78	Synthesis of functionalized heterocycles via a tandem Staudinger/aza-Wittig/Ugi multicomponent reaction. Tetrahedron: Asymmetry, 2005, 16, 177-185.	1.8	65
79	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
80	Selective Crossâ€Metathesis ofCâ€Allylâ€Glycosides. Journal of Carbohydrate Chemistry, 2005, 24, 335-351.	1.1	12
81	Short De Novo Synthesis of Fully Functionalized Uronic Acid Monosaccharides. Angewandte Chemie - International Edition, 2005, 44, 7605-7607.	13.8	44
82	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
83	Synthesis of Functionalized Heterocycles via a Tandem Staudinger/Aza-Wittig/Ugi Multicomponent Reaction.. ChemInform, 2005, 36, no.	0.0	0
84	Carbohydrates as Versatile Platforms in the Construction of Small Compound Libraries. ChemInform, 2005, 36, no.	0.0	0
85	Carbohydrates as versatile platforms in the construction of small compound libraries. Pure and Applied Chemistry, 2005, 77, 1173-1181.	1.9	29
86	A Tandem Ring-Closing Metathesis Cleavable Linker System for Solid-Phase Oligosaccharide Synthesis. Synlett, 2004, 2004, 2155-2158.	1.8	1
87	A Practical Synthesis of Gramicidin S and Sugar Amino Acid Containing Analogues. Journal of Organic Chemistry, 2004, 69, 7851-7859.	3.2	39
88	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
89	The Use of a Mannitol-Derived Fused Oxacycle as a Combinatorial Scaffold. Journal of Organic Chemistry, 2003, 68, 9406-9411.	3.2	32
90	A Short Route toward Chiral, Polyhydroxylated Indolizidines and Quinolizidines. Journal of Organic Chemistry, 2003, 68, 9598-9603.	3.2	54

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91	Synthesis of phosphorus mono- and bicycles by catalytic ring-closing metathesis. Tetrahedron Letters, 2001, 42, 8231-8233.	1.4	52
92	An expeditious route to phosphorus heterocycles based on ring-closing metathesis. Tetrahedron Letters, 2000, 41, 8635-8638.	1.4	36