

# Niels-Christian Reichardt

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6746524/publications.pdf>

Version: 2024-02-01

56  
papers

1,830  
citations

218677

26  
h-index

276875

41  
g-index

61  
all docs

61  
docs citations

61  
times ranked

2826  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cross-reactive carbohydrate determinant-specific IgE obscures true atopy and exhibits a 1,3-fucose epitope-specific inverse associations with asthma. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2021, 76, 233-246.	5.7	15
2	Controlled density glycodendron microarrays for studying carbohydrate-lectin interactions. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 7357-7362.	2.8	6
3	Longitudinal Development of Antibody Responses in COVID-19 Patients of Different Severity with ELISA, Peptide, and Glycan Arrays: An Immunological Case Series. <i>Pathogens</i> , 2021, 10, 438.	2.8	21
4	Glycosylation reduces the glycan-independent immunomodulatory effect of recombinant Oryzata lectin in <i>Drosophila</i> S2 cells. <i>Scientific Reports</i> , 2021, 11, 17958.	3.3	1
5	TETRALEC, Artificial Tetrameric Lectins: A Tool to Screen Ligand and Pathogen Interactions. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5290.	4.1	13
6	The Interaction of Fluorinated Glycomimetics with DC-SIGN: Multiple Binding Modes Disentangled by the Combination of NMR Methods and MD Simulations. <i>Pharmaceuticals</i> , 2020, 13, 179.	3.8	12
7	Chemo-Enzymatic Synthesis of <i>S. mansoni</i> Glycans and Their Evaluation as Ligands for C-Type Lectin Receptors MGL, DC-SIGN, and DC-SIGNR. <i>Chemistry - A European Journal</i> , 2020, 26, 12818-12830.	3.3	4
8	Fluorinated carbohydrates as chemical probes for molecular recognition studies. Current status and perspectives. <i>Chemical Society Reviews</i> , 2020, 49, 3863-3888.	38.1	77
9	Rapid On-Chip Synthesis of Complex Glycomimetics from N-Glycan Scaffolds for Improved Lectin Targeting. <i>Chemistry - A European Journal</i> , 2020, 26, 12809-12817.	3.3	7
10	Assessing the role of surface glycans of extracellular vesicles on cellular uptake. <i>Scientific Reports</i> , 2019, 9, 11920.	3.3	92
11	Glycans in drug discovery. <i>MedChemComm</i> , 2019, 10, 1678-1691.	3.4	62
12	Molecular Insights into DC-SIGN Binding to Self-Antigens: The Interaction with the Blood Group A/B Antigens. <i>ACS Chemical Biology</i> , 2019, 14, 1660-1671.	3.4	37
13	Microarray assessment of N-glycan-specific IgE and IgG profiles associated with <i>Schistosoma mansoni</i> infection in rural and urban Uganda. <i>Scientific Reports</i> , 2019, 9, 3522.	3.3	14
14	Metabolomics Applied to the Study of Extracellular Vesicles. <i>Metabolites</i> , 2019, 9, 276.	2.9	68
15	Glycosylation of extracellular vesicles: current knowledge, tools and clinical perspectives. <i>Journal of Extracellular Vesicles</i> , 2018, 7, 1442985.	12.2	173
16	Lectin Array Blotting. <i>Current Protocols in Cell Biology</i> , 2018, 76, 6.12.1-6.12.12.	2.3	0
17	Identification of dominant anti-glycan IgE responses in school children by glycan microarray. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 141, 1130-1133.	2.9	18
18	Glycan Microarray-Assisted Identification of IgG Subclass Targets in Schistosomiasis. <i>Frontiers in Immunology</i> , 2018, 9, 2331.	4.8	17

#	ARTICLE	IF	CITATIONS
19	Measuring Bacterial Glycosyl Hydrolase Activity with a Soluble Capture Probe by Mass Spectrometry. <i>Analytical Chemistry</i> , 2018, 90, 12536-12543.	6.5	3
20	Chemoenzymatic Synthesis of N-glycan Positional Isomers and Evidence for Branch Selective Binding by Monoclonal Antibodies and Human C-type Lectin Receptors. <i>ACS Chemical Biology</i> , 2018, 13, 2269-2279.	3.4	38
21	Fluoroacetamide Moieties as NMR Spectroscopy Probes for the Molecular Recognition of GlcNAc-Containing Sugars: Modulation of the CH <sub>2</sub> Stacking Interactions by Different Fluorination Patterns. <i>Chemistry - A European Journal</i> , 2017, 23, 3957-3965.	3.3	33
22	NMR and Molecular Recognition of N-Glycans: Remote Modifications of the Saccharide Chain Modulate Binding Features. <i>ACS Chemical Biology</i> , 2017, 12, 1104-1112.	3.4	35
23	Analysis of defective protein ubiquitylation associated to adriamycin resistant cells. <i>Cell Cycle</i> , 2017, 16, 2337-2344.	2.6	5
24	Specific anti-glycan antibodies are sustained during and after parasite clearance in <i>Schistosoma japonicum</i> -infected rhesus macaques. <i>PLoS Neglected Tropical Diseases</i> , 2017, 11, e0005339.	3.0	23
25	Opportunities for glyconanomaterials in personalized medicine. <i>Chemical Communications</i> , 2016, 52, 13430-13439.	4.1	21
26	Influence of Core $\beta$ -1,2-Xylosylation on Glycoprotein Recognition by Murine C-type Lectin Receptors and Its Impact on Dendritic Cell Targeting. <i>ACS Chemical Biology</i> , 2016, 11, 2347-2356.	3.4	27
27	Methods for the absolute quantification of N-glycan biomarkers. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 1676-1687.	2.4	29
28	Monitoring Glycan-Protein Interactions by NMR Spectroscopic Analysis: A Simple Chemical Tag That Mimics Natural CH <sub>2</sub> Interactions. <i>Chemistry - A European Journal</i> , 2015, 21, 11408-11416.	3.3	17
29	Synthesis and Microarray-Assisted Binding Studies of Core Xylose and Fucose Containing N-Glycans. <i>ACS Chemical Biology</i> , 2015, 10, 1290-1302.	3.4	56
30	Algal lectin binding to core ( $\beta$ -1 $\rightarrow$ 6) fucosylated N-glycans: Structural basis for specificity and production of recombinant protein. <i>Glycobiology</i> , 2015, 25, 607-616.	2.5	17
31	Glycoarrays: An Invaluable Tool for Glycomics. , 2015, , 147-172.		0
32	Chemo-Enzymatic Synthesis of <sup>13</sup> C Labeled Complex N-Glycans As Internal Standards for the Absolute Glycan Quantification by Mass Spectrometry. <i>Analytical Chemistry</i> , 2015, 87, 11460-11467.	6.5	36
33	On the molecular interaction between albumin and ibuprofen: An AFM and QCM-D study. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 134, 355-362.	5.0	7
34	Solid-phase assembly of glycosaminoglycan oligosaccharide precursors. <i>RSC Advances</i> , 2015, 5, 9325-9327.	3.6	4
35	Nanostructured Indium Tin Oxide Slides for Small-Molecule Profiling and Imaging Mass Spectrometry of Metabolites by Surface-Assisted Laser Desorption Ionization MS. <i>Analytical Chemistry</i> , 2015, 87, 431-440.	6.5	36
36	Microarray-Based Identification of Lectins for the Purification of Human Urinary Extracellular Vesicles Directly from Urine Samples. <i>ChemBioChem</i> , 2014, 15, 1621-1626.	2.6	59

#	ARTICLE	IF	CITATIONS
37	Cross-platform comparison of glycan microarray formats. <i>Glycobiology</i> , 2014, 24, 507-517.	2.5	114
38	Biological Evaluation of Multivalent Lewis X <sup>a</sup> –MGL Interactions. <i>ChemBioChem</i> , 2014, 15, 844-851.	2.6	19
39	Nanostructured weathering steel for matrix-free laser desorption ionisation mass spectrometry and imaging of metabolites, drugs and complex glycans. <i>Analyst</i> , 2014, 139, 2873.	3.5	16
40	Glyconanotechnology. <i>Chemical Society Reviews</i> , 2013, 42, 4358.	38.1	122
41	Three-dimensional Arrays Using GlycoPEG Tags: Glycan Synthesis, Purification and Immobilisation. <i>Chemistry - A European Journal</i> , 2013, 19, 4776-4785.	3.3	11
42	Toward the Solid-Phase Synthesis of Heparan Sulfate Oligosaccharides: Evaluation of Iduronic Acid and Idose Building Blocks. <i>Journal of Organic Chemistry</i> , 2013, 78, 6911-6934.	3.2	28
43	Profiling Glycosyltransferase Activities by Tritium Imaging of Glycan Microarrays. <i>ChemBioChem</i> , 2013, 14, 862-869.	2.6	9
44	Analysis of Microarrays by MALDI-TOF MS. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 7477-7481.	13.8	39
45	Array-assisted Characterization of a Fucosyltransferase Required for the Biosynthesis of Complex Core Modifications of Nematode N-Glycans. <i>Journal of Biological Chemistry</i> , 2013, 288, 21015-21028.	3.4	33
46	A surface-based mass spectrometry method for screening glycosidase specificity in environmental samples. <i>Chemical Communications</i> , 2012, 48, 1701-1703.	4.1	21
47	Lectin-Array Blotting: Profiling Protein Glycosylation in Complex Mixtures. <i>ACS Chemical Biology</i> , 2012, 7, 1729-1737.	3.4	40
48	A new linker for solid-phase synthesis of heparan sulfate precursors by sequential assembly of monosaccharide building blocks. <i>Chemical Communications</i> , 2011, 47, 2390-2392.	4.1	38
49	Fucosyltransferases as Synthetic Tools: Glycan Array Based Substrate Selection and Core Fucosylation of Synthetic N-Glycans. <i>Journal of the American Chemical Society</i> , 2011, 133, 16495-16502.	13.7	56
50	Experimental observations on the regioselectivity of glycosylation of a 4,6-diol system in the 1,2-d-mannopyranosyl unit of a N-glycan pentasaccharide core structure. <i>Carbohydrate Research</i> , 2011, 346, 1581-1591.	2.3	8
51	MALDI-TOF Mass Spectrometric Analysis of Enzyme Activity and Lectin Trapping on an Array of N-Glycans. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1801-1804.	13.8	42
52	Construction of N-Glycan Microarrays by Using Modular Synthesis and On-Chip Nanoscale Enzymatic Glycosylation. <i>Chemistry - A European Journal</i> , 2010, 16, 13163-13175.	3.3	62
53	Synthesis of a core trisaccharide building block for the assembly of N-glycan neoconjugates. <i>Tetrahedron: Asymmetry</i> , 2009, 20, 851-856.	1.8	12
54	Design and synthesis of inositolphosphoglycan putative insulin mediators. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 764-786.	2.8	18

#	ARTICLE	IF	CITATIONS
55	An exploratory study on the synthesis of heparin-like oligosaccharides by polycondensation. <i>Arkivoc</i> , 2005, 2005, 133-145.	0.5	5
56	A Practical Solid-Phase Synthesis of Glycosylphosphatidylinositol Precursors. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 4674-4677.	13.8	35