

# Niels-Christian Reichardt

## List of Publications by Year in descending order

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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	Glycosylation of extracellular vesicles: current knowledge, tools and clinical perspectives. <i>Journal of Extracellular Vesicles</i> , 2018, 7, 1442985.	12.2	173
2	Glyconanotechnology. <i>Chemical Society Reviews</i> , 2013, 42, 4358.	38.1	122
3	Cross-platform comparison of glycan microarray formats. <i>Glycobiology</i> , 2014, 24, 507-517.	2.5	114
4	Assessing the role of surface glycans of extracellular vesicles on cellular uptake. <i>Scientific Reports</i> , 2019, 9, 11920.	3.3	92
5	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
6	Metabolomics Applied to the Study of Extracellular Vesicles. <i>Metabolites</i> , 2019, 9, 276.	2.9	68
7	Construction of <i>N</i> -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
8	Glycans in drug discovery. <i>MedChemComm</i> , 2019, 10, 1678-1691.	3.4	62
9	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
10	Fucosyltransferases as Synthetic Tools: Glycan Array Based Substrate Selection and Core Fucosylation of Synthetic <i>N</i> -Glycans. <i>Journal of the American Chemical Society</i> , 2011, 133, 16495-16502.	13.7	56
11	Synthesis and Microarray-Assisted Binding Studies of Core Xylose and Fucose Containing <i>N</i> -Glycans. <i>ACS Chemical Biology</i> , 2015, 10, 1290-1302.	3.4	56
12	MALDI-TOF Mass Spectrometric Analysis of Enzyme Activity and Lectin Trapping on an Array of <i>N</i> -Glycans. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1801-1804.	13.8	42
13	Lectin-Array Blotting: Profiling Protein Glycosylation in Complex Mixtures. <i>ACS Chemical Biology</i> , 2012, 7, 1729-1737.	3.4	40
14	Analysis of Microarrays by MALDI-TOF MS. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 7477-7481.	13.8	39
15	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
16	Chemoenzymatic Synthesis of <i>N</i> -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
17	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
18	Chemo-Enzymatic Synthesis of <sup>13</sup> C Labeled Complex <i>N</i> -Glycans As Internal Standards for the Absolute Glycan Quantification by Mass Spectrometry. <i>Analytical Chemistry</i> , 2015, 87, 11460-11467.	6.5	36

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19	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
20	A Practical Solid-Phase Synthesis of Glycosylphosphatidylinositol Precursors. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 4674-4677.	13.8	35
21	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
22	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
23	Fluoroacetamide Moieties as NMR Spectroscopy Probes for the Molecular Recognition of GlcNAc-Containing Sugars: Modulation of the CH $\pi$ - $\pi$ Stacking Interactions by Different Fluorination Patterns. <i>Chemistry - A European Journal</i> , 2017, 23, 3957-3965.	3.3	33
24	Methods for the absolute quantification of N-glycan biomarkers. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 1676-1687.	2.4	29
25	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
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	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
28	A surface-based mass spectrometry method for screening glycosidase specificity in environmental samples. <i>Chemical Communications</i> , 2012, 48, 1701-1703.	4.1	21
29	Opportunities for glyconanomaterials in personalized medicine. <i>Chemical Communications</i> , 2016, 52, 13430-13439.	4.1	21
30	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
31	Biological Evaluation of Multivalent Lewis X $\pi$ -MGL $\pi$ Interactions. <i>ChemBioChem</i> , 2014, 15, 844-851.	2.6	19
32	Design and synthesis of inositolphosphoglycan putative insulin mediators. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 764-786.	2.8	18
33	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
34	Monitoring Glycan-Protein Interactions by NMR Spectroscopic Analysis: A Simple Chemical Tag That Mimics Natural CH $\pi$ - $\pi$ Interactions. <i>Chemistry - A European Journal</i> , 2015, 21, 11408-11416.	3.3	17
35	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
36	Glycan Microarray-Assisted Identification of IgG Subclass Targets in Schistosomiasis. <i>Frontiers in Immunology</i> , 2018, 9, 2331.	4.8	17

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37	Nanostructured weathering steel for matrix-free laser desorption ionisation mass spectrometry and imaging of metabolites, drugs and complex glycans. <i>Analyst</i> , The, 2014, 139, 2873.	3.5	16
38	Cross-reactive carbohydrate determinant-specific IgE obscures true atopy and exhibits $\alpha$ -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
39	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
40	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
41	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
42	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
43	Three-Dimensional Arrays Using GlycoPEG Tags: Glycan Synthesis, Purification and Immobilisation. <i>Chemistry - A European Journal</i> , 2013, 19, 4776-4785.	3.3	11
44	Profiling Glycosyltransferase Activities by Tritium Imaging of Glycan Microarrays. <i>ChemBioChem</i> , 2013, 14, 862-869.	2.6	9
45	Experimental observations on the regioselectivity of glycosylation of a 4,6-diol system in the $\beta$ -2-d-mannopyranosyl unit of a N-glycan pentasaccharide core structure. <i>Carbohydrate Research</i> , 2011, 346, 1581-1591.	2.3	8
46	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
47	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
48	Controlled density glycodendron microarrays for studying carbohydrate-lectin interactions. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 7357-7362.	2.8	6
49	Analysis of defective protein ubiquitylation associated to adriamycin resistant cells. <i>Cell Cycle</i> , 2017, 16, 2337-2344.	2.6	5
50	An exploratory study on the synthesis of heparin-like oligosaccharides by polycondensation. <i>Arkivoc</i> , 2005, 2005, 133-145.	0.5	5
51	Solid-phase assembly of glycosaminoglycan oligosaccharide precursors. <i>RSC Advances</i> , 2015, 5, 9325-9327.	3.6	4
52	Chemo-Enzymatic Synthesis of <i>S. mansoni</i> O-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
53	Measuring Bacterial Glycosyl Hydrolase Activity with a Soluble Capture Probe by Mass Spectrometry. <i>Analytical Chemistry</i> , 2018, 90, 12536-12543.	6.5	3
54	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

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55	Glycoarrays: An Invaluable Tool for Glycomics. , 2015, , 147-172.		0
56	Lectinâ€Array Blotting. Current Protocols in Cell Biology, 2018, 76, 6.12.1-6.12.12.	2.3	0