

Christopher W Cairo

List of Publications by Year in descending order

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85
papers

3,681
citations

147726
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docs citations

97
times ranked

5076
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Inhibitors of Human Neuraminidase Enzymes Block Transmigration in vitro. <i>Frontiers in Molecular Biosciences</i> , 2022, 9, 835757. | 1.6 | 3 |
| 2 | The Janus-like role of neuraminidase isoenzymes in inflammation. <i>FASEB Journal</i> , 2022, 36, e22285. | 0.2 | 9 |
| 3 | Therapeutic Effect of Neuraminidase-1 Selective Inhibition in Mouse Models of Bleomycin-Induced Pulmonary Inflammation and Fibrosis. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2021, 376, 136-146. | 1.3 | 24 |
| 4 | Neuraminidases 1 and 3 Trigger Atherosclerosis by Desialylating Low-Density Lipoproteins and Increasing Their Uptake by Macrophages. <i>Journal of the American Heart Association</i> , 2021, 10, e018756. | 1.6 | 29 |
| 5 | Characterization of ABH-subtype donor-specific antibodies in ABO-A-incompatible kidney transplantation. <i>American Journal of Transplantation</i> , 2021, 21, 3649-3662. | 2.6 | 16 |
| 6 | Profiling of glycosphingolipids with SCDase digestion and HPLC-FLD-MS. <i>Analytical Biochemistry</i> , 2021, 631, 114361. | 1.1 | 2 |
| 7 | NIST Interlaboratory Study on Glycosylation Analysis of Monoclonal Antibodies: Comparison of Results from Diverse Analytical Methods. <i>Molecular and Cellular Proteomics</i> , 2020, 19, 11-30. | 2.5 | 87 |
| 8 | Human neuraminidases have reduced activity towards modified sialic acids on glycoproteins. <i>Carbohydrate Research</i> , 2020, 497, 108139. | 1.1 | 6 |
| 9 | Isoenzyme-Selective Inhibitors of Human Neuraminidases Reveal Distinct Effects on Cell Migration. <i>ACS Chemical Biology</i> , 2020, 15, 1328-1339. | 1.6 | 9 |
| 10 | A quantitative, high-throughput method identifies protein-glycan interactions via mass spectrometry. <i>Communications Biology</i> , 2019, 2, 268. | 2.0 | 24 |
| 11 | Crystal structures of human lysosomal EPDR1 reveal homology with the superfamily of bacterial lipoprotein transporters. <i>Communications Biology</i> , 2019, 2, 52. | 2.0 | 18 |
| 12 | Neuraminidase-3 Is a Negative Regulator of LFA-1 Adhesion. <i>Frontiers in Chemistry</i> , 2019, 7, 791. | 1.8 | 13 |
| 13 | Selection of galectin-3 ligands derived from genetically encoded glycopeptide libraries. <i>Peptide Science</i> , 2019, 111, e24097. | 1.0 | 9 |
| 14 | Human Neuraminidase Isoenzymes Show Variable Activities for 9-Acetyl-sialoside Substrates. <i>ACS Chemical Biology</i> , 2018, 13, 922-932. | 1.6 | 27 |
| 15 | Selective Inhibitors of Human Neuraminidase 3. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 1990-2008. | 2.9 | 43 |
| 16 | New Answers to Old Conundrums. <i>Transplantation</i> , 2018, 102, 209-214. | 0.5 | 16 |
| 17 | Construction of Multivalent Homo- and Heterofunctional ABO Blood Group Glycoconjugates Using a Trifunctional Linker Strategy. <i>Bioconjugate Chemistry</i> , 2018, 29, 343-362. | 1.8 | 16 |
| 18 | MHC-Matched A-Expressing Blood Cells Induce ABO Tolerance in Infant and Adult Mice. <i>Transplantation</i> , 2018, 102, S292. | 0.5 | 1 |

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|----|--|------|-----------|
| 19 | Selective Inhibitors of Human Neuraminidase 1 (NEU1). <i>Journal of Medicinal Chemistry</i> , 2018, 61, 11261-11279. | 2.9 | 40 |
| 20 | A tyrosine sulfation-dependent HLA-I modification identifies memory B cells and plasma cells. <i>Science Advances</i> , 2018, 4, eaar7653. | 4.7 | 13 |
| 21 | Persistent reduction in sialylation of cerebral glycoproteins following postnatal inflammatory exposure. <i>Journal of Neuroinflammation</i> , 2018, 15, 336. | 3.1 | 20 |
| 22 | Molecular dynamics simulations of viral neuraminidase inhibitors with the human neuraminidase enzymes: Insights into isoenzyme selectivity. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 5349-5358. | 1.4 | 25 |
| 23 | Neuraminidase 1 activates insulin receptor and reverses insulin resistance in obese mice. <i>Molecular Metabolism</i> , 2018, 12, 76-88. | 3.0 | 50 |
| 24 | Synthetic Strategies for Modified Glycosphingolipids and Their Design as Probes. <i>Chemical Reviews</i> , 2018, 118, 8188-8241. | 23.0 | 34 |
| 25 | Galectin-3 alters the lateral mobility and clustering of β 1-integrin receptors. <i>PLoS ONE</i> , 2017, 12, e0184378. | 1.1 | 21 |
| 26 | ABH-Glycan Microarray Characterizes ABO Subtype Antibodies: Fine Specificity of Immune Tolerance After ABO-Incompatible Transplantation. <i>American Journal of Transplantation</i> , 2016, 16, 1548-1558. | 2.6 | 36 |
| 27 | Screening Glycolipids Against Proteins In Vitro Using Picodiscs and Catch-and-Release Electrospray Ionization-Mass Spectrometry. <i>Analytical Chemistry</i> , 2016, 88, 4742-4750. | 3.2 | 20 |
| 28 | Integrin-mediated cell migration is blocked by inhibitors of human neuraminidase. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016, 1861, 1170-1179. | 1.2 | 16 |
| 29 | Enhanced Cross-Linking of Diazirine-Modified Sialylated Glycoproteins Enabled through Profiling of Sialidase Specificities. <i>ACS Chemical Biology</i> , 2016, 11, 185-192. | 1.6 | 19 |
| 30 | Conjugation of A and B Blood Group Structures to Silica Microparticles for the Detection of Antigen-Specific B Cells. <i>Bioconjugate Chemistry</i> , 2016, 27, 705-715. | 1.8 | 9 |
| 31 | Human Neuraminidase Enzymes alter the Lateral Mobility and Function of Integrin Receptors. <i>Biophysical Journal</i> , 2015, 108, 31a. | 0.2 | 0 |
| 32 | A FRET Probe for Cell-Based Imaging of Ganglioside Processing Enzyme Activity and High-Throughput Screening. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5389-5393. | 7.2 | 44 |
| 33 | Picodiscs for Facile Protein-Glycolipid Interaction Analysis. <i>Analytical Chemistry</i> , 2015, 87, 4402-4408. | 3.2 | 27 |
| 34 | Protecting group-free immobilization of glycans for affinity chromatography using glycosylsulfonohydrazide donors. <i>Carbohydrate Research</i> , 2015, 417, 109-116. | 1.1 | 8 |
| 35 | Mapping substrate interactions of the human membrane-associated neuraminidase, NEU3, using STD NMR. <i>Glycobiology</i> , 2015, 25, 284-293. | 1.3 | 8 |
| 36 | Detection of Diffusion Heterogeneity in Single Particle Tracking Trajectories Using a Hidden Markov Model with Measurement Noise Propagation. <i>PLoS ONE</i> , 2015, 10, e0140759. | 1.1 | 38 |

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|----|--|-----|-----------|
| 37 | Sialidase NEU4 is involved in glioblastoma stem cell survival. <i>Cell Death and Disease</i> , 2014, 5, e1381-e1381. | 2.7 | 27 |
| 38 | Practical Labeling Methodology for Choline-Derived Lipids and Applications in Live Cell Fluorescence Imaging. <i>Photochemistry and Photobiology</i> , 2014, 90, 686-695. | 1.3 | 12 |
| 39 | Synthesis of $\hat{\pm}$ -brominated phosphonates and their application as phosphate bioisosteres. <i>MedChemComm</i> , 2014, 5, 1619-1633. | 3.5 | 9 |
| 40 | Conformational analysis of peramivir reveals critical differences between free and enzyme-bound states. <i>MedChemComm</i> , 2014, 5, 1483-1488. | 3.5 | 5 |
| 41 | Inhibitors of the human neuraminidase enzymes. <i>MedChemComm</i> , 2014, 5, 1067-1074. | 3.5 | 31 |
| 42 | Structural Basis for Substrate Specificity of Mammalian Neuraminidases. <i>PLoS ONE</i> , 2014, 9, e106320. | 1.1 | 72 |
| 43 | Identification of Selective Inhibitors for Human Neuraminidase Isoenzymes Using C4,C7-Modified 2-Deoxy-2,3-didehydro- <i>N</i> -acetylneuraminic Acid (DANA) Analogues. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 2948-2958. | 2.9 | 38 |
| 44 | $\hat{\pm}$ -Bromophosphonate analogs of glucose-6-phosphate are inhibitors of glucose-6-phosphatase. <i>Carbohydrate Research</i> , 2013, 381, 123-132. | 1.1 | 5 |
| 45 | Mycobacterial Phenolic Glycolipids with a Simplified Lipid Aglycone Modulate Cytokine Levels through Toll-Like Receptor 2. <i>ChemBioChem</i> , 2013, 14, 2153-2159. | 1.3 | 27 |
| 46 | Identification of Selective Nanomolar Inhibitors of the Human Neuraminidase, NEU4. <i>ACS Medicinal Chemistry Letters</i> , 2013, 4, 532-537. | 1.3 | 34 |
| 47 | Glycoform Remodeling Generates a Synthetic T Cell Phenotype. <i>Bioconjugate Chemistry</i> , 2013, 24, 907-914. | 1.8 | 1 |
| 48 | Positive Regulation of Insulin Signaling by Neuraminidase 1. <i>Diabetes</i> , 2013, 62, 2338-2346. | 0.3 | 74 |
| 49 | Interlaboratory Study on Differential Analysis of Protein Glycosylation by Mass Spectrometry: The ABRF Glycoprotein Research Multi-Institutional Study 2012. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 2935-2951. | 2.5 | 103 |
| 50 | 5-(4-Hexyl-1H-1,2,3-triazol-1-yl)-2,1,3-benzoxadiazole. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, o3128-o3129. | 0.2 | 2 |
| 51 | 5-(1-Benzyl-1H-1,2,3-triazol-4-yl)-2,1,3-benzoxadiazole. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, o3130-o3131. | 0.2 | 2 |
| 52 | 1-[1-(2,1,3-Benzoxadiazol-5-ylmethyl)-1H-1,2,3-triazol-4-yl]hexan-1-one. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, o3132-o3132. | 0.2 | 2 |
| 53 | Detection of Cellular Sialic Acid Content Using Nitrobenzoxadiazole Carbonyl-Reactive Chromophores. <i>Bioconjugate Chemistry</i> , 2012, 23, 363-371. | 1.8 | 47 |
| 54 | Protein-Glycosphingolipid Interactions Revealed Using Catch-and-Release Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 7618-7621. | 3.2 | 47 |

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|----|---|-----|-----------|
| 55 | Substituted Benzoxadiazoles as Fluorogenic Probes: A Computational Study of Absorption and Fluorescence. <i>Journal of Physical Chemistry A</i> , 2012, 116, 46-54. | 1.1 | 12 |
| 56 | A Fluorogenic Aromatic Nucleophilic Substitution Reaction for Demonstrating Normal-Phase Chromatography and Isolation of Nitrobenzoxadiazole Chromophores. <i>Journal of Chemical Education</i> , 2011, 88, 98-100. | 1.1 | 5 |
| 57 | Analysis of Molecular Diffusion by First-Passage Time Variance Identifies the Size of Confinement Zones. <i>Biophysical Journal</i> , 2011, 100, 1463-1472. | 0.2 | 23 |
| 58 | Substrate Recognition of the Membrane-Associated Sialidase NEU3 Requires a Hydrophobic Aglycone. <i>Biochemistry</i> , 2011, 50, 6753-6762. | 1.2 | 43 |
| 59 | Identification of fluorogenic and quenched benzoxadiazole reactive chromophores. <i>Dyes and Pigments</i> , 2011, 88, 95-102. | 2.0 | 22 |
| 60 | Inhibitor selectivity of a new class of oseltamivir analogs against viral neuraminidase over human neuraminidase enzymes. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 2817-2822. | 1.4 | 35 |
| 61 | A protected l-bromophosphonomethylphenylalanine amino acid derivative (BrPmp) for synthesis of irreversible protein tyrosine phosphatase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 8679-8686. | 1.4 | 24 |
| 62 | Fluorescent small-molecule probes of biochemistry at the plasma membrane. <i>Current Opinion in Chemical Biology</i> , 2010, 14, 57-63. | 2.8 | 59 |
| 63 | Inhibition of human neuraminidase 3 (NEU3) by C9-triazole derivatives of 2,3-didehydro-N-acetyl-neuraminic acid. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 7529-7533. | 1.0 | 30 |
| 64 | Immobilization of carbohydrate epitopes for surface plasmon resonance using the Staudinger ligation. <i>Carbohydrate Research</i> , 2010, 345, 2641-2647. | 1.1 | 8 |
| 65 | Dynamic Regulation of CD45 Lateral Mobility by the Spectrin-Ankyrin Cytoskeleton of T Cells*. <i>Journal of Biological Chemistry</i> , 2010, 285, 11392-11401. | 1.6 | 47 |
| 66 | Insight into substrate recognition and catalysis by the human neuraminidase 3 (NEU3) through molecular modeling and site-directed mutagenesis. <i>Glycobiology</i> , 2010, 20, 1127-1138. | 1.3 | 51 |
| 67 | Conjugation of Synthetic N-Acetyl-Lactosamine to Azide-Containing Proteins Using the Staudinger Ligation. <i>Bioconjugate Chemistry</i> , 2010, 21, 1842-1849. | 1.8 | 24 |
| 68 | A Monomeric Photoconvertible Fluorescent Protein for Imaging of Dynamic Protein Localization. <i>Journal of Molecular Biology</i> , 2010, 401, 776-791. | 2.0 | 73 |
| 69 | A Hidden Markov Model for Single Particle Tracks Quantifies Dynamic Interactions between LFA-1 and the Actin Cytoskeleton. <i>PLoS Computational Biology</i> , 2009, 5, e1000556. | 1.5 | 113 |
| 70 | Photophysical characterization of triazole-substituted coumarin fluorophores. <i>Dyes and Pigments</i> , 2009, 82, 196-203. | 2.0 | 70 |
| 71 | A Modular Synthesis of Alkynyl-Phosphocholine Headgroups for Labeling Sphingomyelin and Phosphatidylcholine. <i>Journal of Organic Chemistry</i> , 2009, 74, 8669-8674. | 1.7 | 30 |
| 72 | T cell adhesion mechanisms revealed by receptor lateral mobility. <i>Biopolymers</i> , 2008, 89, 409-419. | 1.2 | 14 |

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|----|---|-----|-----------|
| 73 | 7,7-((3,3-Dibenzyl-3H,3H-4,4-bi-1,2,3-triazole-5,5-diyl)bis(4-methyl-2H-chromen-2-one)). Acta Crystallographica Section E: Structure Reports Online, 2008, 64, o1910-o1910. | 0.2 | 4 |
| 74 | Signaling by Committee: Receptor Clusters Determine Pathways of Cellular Activation. ACS Chemical Biology, 2007, 2, 652-655. | 1.6 | 11 |
| 75 | Analysis of Two-Dimensional Dissociation Constant of Laterally Mobile Cell Adhesion Molecules. Biophysical Journal, 2007, 92, 1022-1034. | 0.2 | 77 |
| 76 | Mechanisms of Cellular Avidity Regulation in CD28/CD58-Mediated T Cell Adhesion. ACS Chemical Biology, 2006, 1, 649-658. | 1.6 | 42 |
| 77 | Cytoskeletal Regulation Couples LFA-1 Conformational Changes to Receptor Lateral Mobility and Clustering. Immunity, 2006, 25, 297-308. | 6.6 | 127 |
| 78 | Visualization and Characterization of Receptor Clusters by Transmission Electron Microscopy. Methods in Enzymology, 2003, 362, 301-312. | 0.4 | 3 |
| 79 | Control of Multivalent Interactions by Binding Epitope Density. Journal of the American Chemical Society, 2002, 124, 1615-1619. | 6.6 | 372 |
| 80 | Influencing Receptor-Ligand Binding Mechanisms with Multivalent Ligand Architecture. Journal of the American Chemical Society, 2002, 124, 14922-14933. | 6.6 | 657 |
| 81 | Selective Immobilization of Multivalent Ligands for Surface Plasmon Resonance and Fluorescence Microscopy. Analytical Biochemistry, 2002, 305, 149-155. | 1.1 | 70 |
| 82 | Cell Aggregation by Scaffolded Receptor Clusters. Chemistry and Biology, 2002, 9, 163-169. | 6.2 | 81 |
| 83 | Hitting the sweet spot. Nature Biotechnology, 2002, 20, 234-235. | 9.4 | 73 |
| 84 | Affinity-Based Inhibition of β -Amyloid Toxicity. Biochemistry, 2002, 41, 8620-8629. | 1.2 | 115 |
| 85 | Designed potent multivalent chemoattractants for Escherichia coli. Bioorganic and Medicinal Chemistry, 2001, 9, 2387-2393. | 1.4 | 36 |