

Raymond Allen Dwek

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9727049/publications.pdf>

Version: 2024-02-01

75
papers

10,043
citations

81900

39
h-index

76900

74
g-index

76
all docs

76
docs citations

76
times ranked

9148
citing authors

#	ARTICLE	IF	CITATIONS
1	Glycobiology: Toward Understanding the Function of Sugars. <i>Chemical Reviews</i> , 1996, 96, 683-720.	47.7	2,750
2	Glycosylation changes of IgG associated with rheumatoid arthritis can activate complement via the mannose-binding protein. <i>Nature Medicine</i> , 1995, 1, 237-243.	30.7	729
3	Concepts and Principles of O-Linked Glycosylation. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 1998, 33, 151-208.	5.2	633
4	Antibodies inhibit prion propagation and clear cell cultures of prion infectivity. <i>Nature</i> , 2001, 412, 739-743.	27.8	503
5	Complete structure of the glycosyl phosphatidylinositol membrane anchor of rat brain Thy-1 glycoprotein. <i>Nature</i> , 1988, 333, 269-272.	27.8	463
6	Targeting glycosylation as a therapeutic approach. <i>Nature Reviews Drug Discovery</i> , 2002, 1, 65-75.	46.4	409
7	Glycosylation: Heterogeneity and the 3D Structure of Proteins. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 1997, 32, 1-100.	5.2	394
8	The Mannose Receptor Mediates Dengue Virus Infection of Macrophages. <i>PLoS Pathogens</i> , 2008, 4, e17.	4.7	350
9	Inhibition of HIV replication by amino-sugar derivatives. <i>FEBS Letters</i> , 1988, 237, 128-132.	2.8	338
10	Concepts and principles of glycobiology. <i>FASEB Journal</i> , 1993, 7, 1330-1337.	0.5	213
11	Variations in Oligosaccharide-Protein Interactions in Immunoglobulin G Determine the Site-Specific Glycosylation Profiles and Modulate the Dynamic Motion of the Fc Oligosaccharides. <i>Biochemistry</i> , 1997, 36, 1370-1380.	2.5	188
12	The beta1 2-d-xylose and alpha1 3-l-fucose substituted N-linked oligosaccharides from <i>Erythrina cristagalli</i> lectin. Isolation, characterisation and comparison with other legume lectins. <i>FEBS Journal</i> , 1987, 166, 311-320.	0.2	150
13	Characterization of the cross-reacting determinant (CRD) of the glycosyl-phosphatidylinositol membrane anchor of <i>Trypanosoma brucei</i> variant surface glycoprotein. <i>FEBS Journal</i> , 1988, 176, 527-534.	0.2	148
14	Site-specific glycosylation of human immunoglobulin G is altered in four rheumatoid arthritis patients. <i>Biochemical Journal</i> , 1996, 314, 621-630.	3.7	148
15	Oligosaccharide sequencing technology. <i>Nature</i> , 1997, 388, 205-207.	27.8	144
16	The high degree of internal flexibility observed for an oligomannose oligosaccharide does not alter the overall topology of the molecule. <i>FEBS Journal</i> , 1998, 258, 372-386.	0.2	131
17	Genes contributing to prion pathogenesis. <i>Journal of General Virology</i> , 2008, 89, 1777-1788.	2.9	116
18	The conformational effects of N-glycosylation on the tailpiece from serum IgM. <i>FEBS Journal</i> , 1991, 198, 131-139.	0.2	99

#	ARTICLE	IF	CITATIONS
19	Effects of glycosylation on protein structure and dynamics in ribonuclease B and some of its individual glycoforms. <i>FEBS Journal</i> , 1993, 218, 239-244.	0.2	95
20	Introduction: Glycobiology Understanding the Language and Meaning of Carbohydrates. <i>Chemical Reviews</i> , 2002, 102, 283-284.	47.7	92
21	COVID-19 therapeutics: Challenges and directions for the future. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2119893119.	7.1	92
22	Effects of glycosylation on protein conformation and amide proton exchange rates in RNase B. <i>FEBS Letters</i> , 1992, 307, 343-346.	2.8	87
23	Identification of a monoclonal antibody to abscission tissue that recognises xylose/fucose-containing N-linked oligosaccharides from higher plants. <i>Planta</i> , 1988, 175, 506-512.	3.2	85
24	Protein surface oligosaccharides and protein function. <i>Nature Structural Biology</i> , 1994, 1, 499-501.	9.7	84
25	An iminosugar with potent inhibition of dengue virus infection in vivo. <i>Antiviral Research</i> , 2013, 98, 35-43.	4.1	83
26	Antiviral Effect of N-Butyldeoxynojirimycin against Bovine Viral Diarrhea Virus Correlates with Misfolding of E2 Envelope Proteins and Impairment of Their Association into E1-E2 Heterodimers. <i>Journal of Virology</i> , 2001, 75, 3527-3536.	3.4	79
27	Iminosugar antivirals: the therapeutic sweet spot. <i>Biochemical Society Transactions</i> , 2017, 45, 571-582.	3.4	78
28	Sialylated N-glycans in adult rat brain tissue. A widespread distribution of disialylated antennae in complex and hybrid structures. <i>FEBS Journal</i> , 1998, 258, 243-270.	0.2	76
29	Peptide anchor residue glycosylation: effect on class I major histocompatibility complex binding and cytotoxic T lymphocyte recognition. <i>European Journal of Immunology</i> , 1995, 25, 3270-3276.	2.9	74
30	Iminosugars Inhibit Dengue Virus Production via Inhibition of ER Alpha-Glucosidases Not Glycolipid Processing Enzymes. <i>PLoS Neglected Tropical Diseases</i> , 2016, 10, e0004524.	3.0	69
31	Assessing Antigen Structural Integrity through Glycosylation Analysis of the SARS-CoV-2 Viral Spike. <i>ACS Central Science</i> , 2021, 7, 586-593.	11.3	68
32	Characterisation of the asparagine-linked oligosaccharides from <i>Trypanosoma brucei</i> type-I variant surface glycoproteins. <i>FEBS Journal</i> , 1990, 187, 657-663.	0.2	65
33	Identification of highly fucosylated N-linked oligosaccharides from the human parotid gland. <i>FEBS Journal</i> , 1998, 258, 623-656.	0.2	64
34	Structural determination of N-linked carbohydrates by matrix-assisted laser desorption/ionization-mass spectrometry following enzymatic release within sodium dodecyl sulphate-polyacrylamide electrophoresis gels: Application to species-specific glycosylation of β 1-acid glycoprotein. <i>Electrophoresis</i> , 1998, 19, 1950-1959.	2.4	63
35	Inhibition of endoplasmic reticulum glucosidases is required for in vitro and in vivo dengue antiviral activity by the iminosugar UV-4. <i>Antiviral Research</i> , 2016, 129, 93-98.	4.1	52
36	Reduction of the infectivity of hepatitis C virus pseudoparticles by incorporation of misfolded glycoproteins induced by glucosidase inhibitors. <i>Journal of General Virology</i> , 2007, 88, 1133-1143.	2.9	51

#	ARTICLE	IF	CITATIONS
37	The combining site of the dinitrophenyl-binding immunoglobulin A myeloma protein MOPC 315. <i>Biochemical Journal</i> , 1977, 165, 207-223.	3.7	44
38	Antiviral effect of $\hat{\pm}$ -glucosidase inhibitors on viral morphogenesis and binding properties of hepatitis C virus-like particles. <i>Journal of General Virology</i> , 2006, 87, 861-871.	2.9	43
39	Protein specific N-glycosylation of tyrosinase and tyrosinase-related protein-1 in B16 mouse melanoma cells. <i>Biochemical Journal</i> , 1999, 344, 659-665.	3.7	42
40	The Mechanism of Water-Proton Relaxation in Enzyme . Paramagnetic-Ion Complexes. 1. The Gd(III) . Lysozyme Complex. <i>FEBS Journal</i> , 1974, 47, 271-283.	0.2	40
41	Structural Studies on the Combining Site of the Myeloma Protein MOPC 315. <i>FEBS Journal</i> , 1975, 53, 25-39.	0.2	37
42	The effect of aglycosylation on the binding of mouse IgG to staphylococcal protein A. <i>FEBS Letters</i> , 1983, 164, 227-230.	2.8	37
43	The identification of abnormal glycoforms of serum transferrin in carbohydrate deficient glycoprotein syndrome type i by capillary zone electrophoresis. <i>Glycoconjugate Journal</i> , 1996, 13, 1031-1042.	2.7	37
44	Targeting Endoplasmic Reticulum $\hat{\pm}$ -Glucosidase I with a Single-Dose Iminosugar Treatment Protects against Lethal Influenza and Dengue Virus Infections. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 4205-4214.	6.4	37
45	Specific spin labelling of the Fc region of immunoglobulins. <i>FEBS Letters</i> , 1977, 80, 133-136.	2.8	32
46	The gross architecture of an antibody-combining site as determined by spin-label mapping. <i>Biochemical Journal</i> , 1977, 165, 177-197.	3.7	31
47	Structural analysis of the CD5 antigen. Expression, disulphide bond analysis and physical characterisation of CD5 scavenger receptor superfamily domain 1. <i>FEBS Journal</i> , 1998, 257, 131-141.	0.2	25
48	Soluble human TLR2 ectodomain binds diacylglycerol from microbial lipopeptides and glycolipids. <i>Innate Immunity</i> , 2015, 21, 175-193.	2.4	25
49	Some recent applications of the use of paramagnetic centres to probe biological systems using nuclear magnetic resonance. <i>Quarterly Reviews of Biophysics</i> , 1977, 10, 421-484.	5.7	24
50	Glycoproteins: Rapid Sequencing Technology for N-linked and GPI Anchor Glycans. <i>Biotechnology and Genetic Engineering Reviews</i> , 1999, 16, 1-22.	6.2	23
51	Difficulties in Determining Accurate Molecular Motion Parameters from Proton Relaxation Enhancement Measurements as Illustrated by the Immunoglobulin G . Gd(III) System. <i>FEBS Journal</i> , 1976, 71, 519-528.	0.2	21
52	Comparison of the dimensions of the combining sites of the dinitrophenyl-binding immunoglobulin A myeloma proteins MOPC 315, MOPC 460 and XRPC 25 by spin-label mapping. <i>Biochemical Journal</i> , 1977, 165, 199-206.	3.7	20
53	The glycan processing and site occupancy of recombinant Thy-1 is markedly affected by the presence of a glycosylphosphatidylinositol anchor. <i>Glycobiology</i> , 1999, 9, 1381-1387.	2.5	20
54	Heterotropic Interactions of Ligands with Phosphorylase b. <i>FEBS Journal</i> , 1976, 61, 243-251.	0.2	18

#	ARTICLE	IF	CITATIONS
55	The binding of 2,4,6-trinitrophenyl derivatives to the mouse myeloma immunoglobulin A protein MOPC 315. <i>Biochemical Journal</i> , 1978, 169, 179-188.	3.7	18
56	Conformational Changes in Glycogen Phosphorylase Studied with a Spin-Label Probe. <i>FEBS Journal</i> , 1976, 61, 237-242.	0.2	17
57	Cell surface oligosaccharides on <i>Dictyostelium</i> during development. <i>Journal of Cell Science</i> , 1991, 99, 485-495.	2.0	15
58	The Determination of Molecular-Motion Parameters from Proton-Relaxation-Enhancement Measurements in a Number of Gd(III) . antibody-fragment Complexes. A Comparative Study. <i>FEBS Journal</i> , 1977, 75, 445-453.	0.2	14
59	Neutralizing Antibodies to SARS-CoV-2 Selected from a Human Antibody Library Constructed Decades Ago. <i>Advanced Science</i> , 2022, 9, e2102181.	11.2	14
60	Host-targeting oral antiviral drugs to prevent pandemics. <i>Lancet</i> , The, 2022, 399, 1381-1382.	13.7	14
61	Structural Basis of Recognition in the Immune Response. <i>Biochemical Society Transactions</i> , 1978, 6, 1126-1131.	3.4	13
62	Molecular characterization of <i>Limulus Polyphemus</i> C-reactive protein. II. Asparagine-linked oligosaccharides. <i>FEBS Journal</i> , 1993, 214, 99-110.	0.2	13
63	The Mechanism of Water-Proton Relaxation in Enzyme . Paramagnetic-Ion Complexes. 2. The Mn(II) . ATP . Phosphofructokinase Ternary Complex. <i>FEBS Journal</i> , 1974, 47, 285-293.	0.2	12
64	Spin-Labelled Phosphofructokinase. A Simple and Direct Approach to the Study of Allosteric Equilibria under Near-Physiological Conditions. <i>FEBS Journal</i> , 1975, 60, 187-198.	0.2	12
65	A family of novel, acidic N-glycans in Bowes melanoma tissue plasminogen activator have L2/HNK-1-bearing antennae, many with sulfation of the fucosylated chitobiose core. <i>FEBS Journal</i> , 2001, 268, 4063-4078.	0.2	12
66	Minimal In Vivo Efficacy of Iminosugars in a Lethal Ebola Virus Guinea Pig Model. <i>PLoS ONE</i> , 2016, 11, e0167018.	2.5	11
67	Journeys in Science: Glycobiology and Other Paths. <i>Annual Review of Biochemistry</i> , 2014, 83, 1-44.	11.1	10
68	Productive Folding of Tyrosinase Ectodomain Is Controlled by the Transmembrane Anchor. <i>Journal of Biological Chemistry</i> , 2006, 281, 21682-21689.	3.4	9
69	Pathogen-induced inflammation is attenuated by the iminosugar M O N via modulation of the unfolded protein response. <i>Immunology</i> , 2021, 164, 587-601.	4.4	6
70	The preparation and properties of pyruvate kinase from yeast. <i>Biochemical Journal</i> , 1974, 139, 665-675.	3.7	5
71	Investigation of hapten-antibody interactions in McPC603 by ¹ H and ³¹ P NMR spectroscopy. <i>FEBS Letters</i> , 1977, 84, 87-91.	2.8	5
72	The Role of Oligosaccharides in Modifying Protein Function. <i>Novartis Foundation Symposium</i> , 1989, 145, 241-256.	1.1	5

#	ARTICLE	IF	CITATIONS
73	Characterisation of tissue-specific oligosaccharides from rat brain and kidney membrane preparations enriched in Na ⁺ ,K ⁺ -ATPase. Glycoconjugate Journal, 1999, 16, 437-456.	2.7	4
74	Role of Nonbonded Interactions in Determining Solution Conformations of Oligosaccharides. ACS Symposium Series, 1994, , 252-268.	0.5	4
75	Nuclear Magnetic Resonance Studies of Macromolecules with Fluorine Nuclei as Probes. Novartis Foundation Symposium, 1972, 2, 239-279.	1.1	0