Raymond Allen Dwek

List of Publications by Year
in descending order

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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	Neutralizing Antibodies to SARSâ€CoVâ€2 Selected from a Human Antibody Library Constructed Decades Ago. Advanced Science, 2022, 9, e2102181.	11.2	14
2	Host-targeting oral antiviral drugs to prevent pandemics. Lancet, The, 2022, 399, 1381-1382.	13.7	14
3	COVID-19 therapeutics: Challenges and directions for the future. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2119893119.	7.1	92
4	Assessing Antigen Structural Integrity through Glycosylation Analysis of the SARS-CoV-2 Viral Spike. ACS Central Science, 2021, 7, 586-593.	11.3	68
5	Pathogenâ€induced inflammation is attenuated by the iminosugar M O Nâ€DNJ via modulation of the unfolded protein response. Immunology, 2021, 164, 587-601.	4.4	6
6	Targeting Endoplasmic Reticulum Î±-Glucosidase I with a Single-Dose Iminosugar Treatment Protects against Lethal Influenza and Dengue Virus Infections. Journal of Medicinal Chemistry, 2020, 63, 4205-4214.	6.4	37
7	Iminosugar antivirals: the therapeutic sweet spot. Biochemical Society Transactions, 2017, 45, 571-582.	3.4	78
8	Inhibition of endoplasmic reticulum glucosidases is required for inÂvitro and inÂvivo dengue antiviral activity by the iminosugar UV-4. Antiviral Research, 2016, 129, 93-98.	4.1	52
9	Iminosugars Inhibit Dengue Virus Production via Inhibition of ER Alpha-Glucosidasesâ€”Not Glycolipid Processing Enzymes. PLoS Neglected Tropical Diseases, 2016, 10, e0004524.	3.0	69
10	Minimal In Vivo Efficacy of Iminosugars in a Lethal Ebola Virus Guinea Pig Model. PLoS ONE, 2016, 11, e0167018.	2.5	11
11	Soluble human TLR2 ectodomain binds diacylglycerol from microbial lipopeptides and glycolipids. Innate Immunity, 2015, 21, 175-193.	2.4	25
12	Journeys in Science: Glycobiology and Other Paths. Annual Review of Biochemistry, 2014, 83, 1-44.	11.1	10
13	An iminosugar with potent inhibition of dengue virus infection in vivo. Antiviral Research, 2013, 98, 35-43.	4.1	83
14	Genes contributing to prion pathogenesis. Journal of General Virology, 2008, 89, 1777-1788.	2.9	116
15	The Mannose Receptor Mediates Dengue Virus Infection of Macrophages. PLoS Pathogens, 2008, 4, e17.	4.7	350
16	Reduction of the infectivity of hepatitis C virus pseudoparticles by incorporation of misfolded glycoproteins induced by glucosidase inhibitors. Journal of General Virology, 2007, 88, 1133-1143.	2.9	51
17	Productive Folding of Tyrosinase Ectodomain Is Controlled by the Transmembrane Anchor. Journal of Biological Chemistry, 2006, 281, 21682-21689.	3.4	9
18	Antiviral effect of Î±-glucosidase inhibitors on viral morphogenesis and binding properties of hepatitis C virus-like particles. Journal of General Virology, 2006, 87, 861-871.	2.9	43

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19	Introduction:â€‰GlycobiologyUnderstanding the Language and Meaning of Carbohydrates. Chemical Reviews, 2002, 102, 283-284.	47.7	92
20	Targeting glycosylation as a therapeutic approach. Nature Reviews Drug Discovery, 2002, 1, 65-75.	46.4	409
21	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. FEBS Journal, 2001, 268, 4063-4078.	0.2	12
22	Antibodies inhibit prion propagation and clear cell cultures of prion infectivity. Nature, 2001, 412, 739-743.	27.8	503
23	Antiviral Effect ofN-Butyldeoxynojirimycin against Bovine Viral Diarrhea Virus Correlates with Misfolding of E2 Envelope Proteins and Impairment of Their Association into E1-E2 Heterodimers. Journal of Virology, 2001, 75, 3527-3536.	3.4	79
24	The glycan processing and site occupancy of recombinant Thy-1 is markedly affected by the presence of a glycosylphosphatidylinositol anchor. Glycobiology, 1999, 9, 1381-1387.	2.5	20
25	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
26	Glycoproteins: Rapid Sequencing Technology for N-linked and GPI Anchor Glycans. Biotechnology and Genetic Engineering Reviews, 1999, 16, 1-22.	6.2	23
27	Protein specific N-glycosylation of tyrosinase and tyrosinase-related protein-1 in B16 mouse melanoma cells. Biochemical Journal, 1999, 344, 659-665.	3.7	42
28	Structural analysis of the CD5 antigen. Expression, disulphide bond analysis and physical characterisation of CD5 scavenger receptor superfamily domain 1. FEBS Journal, 1998, 257, 131-141.	0.2	25
29	Sialylated N-glycans in adult rat brain tissue. A widespread distribution of disialylated antennae in complex and hybrid structures. FEBS Journal, 1998, 258, 243-270.	0.2	76
30	The high degree of internal flexibility observed for an oligomannose oligosaccharide does not alter the overall topology of the molecule. FEBS Journal, 1998, 258, 372-386.	0.2	131
31	Identification of highly fucosylated N-linked oligosaccharides from the human parotid gland. FEBS Journal, 1998, 258, 623-656.	0.2	64
32	Structural determination ofN-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 Î±1-acid glycoprotein. Electrophoresis, 1998, 19, 1950-1959.	2.4	63
33	Concepts and Principles of O-Linked Glycosylation. Critical Reviews in Biochemistry and Molecular Biology, 1998, 33, 151-208.	5.2	633
34	Glycosylation: Heterogeneity and the 3D Structure of Proteins. Critical Reviews in Biochemistry and Molecular Biology, 1997, 32, 1-100.	5.2	394
35	Variations in Oligosaccharideâ”Protein Interactions in Immunoglobulin G Determine the Site-Specific Glycosylation Profiles and Modulate the Dynamic Motion of the Fc Oligosaccharides. Biochemistry, 1997, 36, 1370-1380.	2.5	188
36	Oligosaccharide sequencing technology. Nature, 1997, 388, 205-207.	27.8	144

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37	Glycobiology:â€‰ Toward Understanding the Function of Sugars. Chemical Reviews, 1996, 96, 683-720.	47.7	2,750
38	Site-specific glycosylation of human immunoglobulin G is altered in four rheumatoid arthritis patients. Biochemical Journal, 1996, 314, 621-630.	3.7	148
39	The identification of abnormal glycoforms of serum transferrin in carbohydrate deficient glycoprotein syndrome type i by capillary zone electrophoresis. Glycoconjugate Journal, 1996, 13, 1031-1042.	2.7	37
40	Peptide anchor residue glycosylation: effect on class I major histocompatibility complex binding and cytotoxic T lymphocyte recognition. European Journal of Immunology, 1995, 25, 3270-3276.	2.9	74
41	Glycosylation changes of IgG associated with rheumatooid arthritis can activate complement via the mannose-binding protein. Nature Medicine, 1995, 1, 237-243.	30.7	729
42	Protein surface oligosaccharides and protein function. Nature Structural Biology, 1994, 1, 499-501.	9.7	84
43	Role of Nonbonded Interactions in Determining Solution Conformations of Oligosaccharides. ACS Symposium Series, 1994, , 252-268.	0.5	4
44	Molecular characterization of Limulus Polyphemus C-reactive protein. II. Asparagine-linked oligosaccharides. FEBS Journal, 1993, 214, 99-110.	0.2	13
45	Effects of glycosylation on protein structure and dynamics in ribonuclease B and some of its individual glycoforms. FEBS Journal, 1993, 218, 239-244.	0.2	95
46	Concepts and principles of glycobiology. FASEB Journal, 1993, 7, 1330-1337.	0.5	213
47	Effects of glycosylation on protein conformation and amide proton exchange rates in RNase B. FEBS Letters, 1992, 307, 343-346.	2.8	87
48	The conformational effects of N-glycosylation on the tailpiece from serum IgM. FEBS Journal, 1991, 198, 131-139.	0.2	99
49	Cell surface oligosaccharides on Dictyostelium during development. Journal of Cell Science, 1991, 99, 485-495.	2.0	15
50	Characterisation of the asparagine-linked oligosaccharides from Trypanosoma brucei type-I variant surface glycoproteins. FEBS Journal, 1990, 187, 657-663.	0.2	65
51	The Role of Oligosaccharides in Modifying Protein Function. Novartis Foundation Symposium, 1989, 145, 241-256.	1.1	5
52	Characterization of the cross-reacting determinant (CRD) of the glycosyl-phosphatidylinositol membrane anchor of Trypanosoma brucei variant surface glycoprotein. FEBS Journal, 1988, 176, 527-534.	0.2	148
53	Identification of a monoclonal antibody to abscission tissue that recognises xylose/fucose-containing N-linked oligosaccharides from higher plants. Planta, 1988, 175, 506-512.	3.2	85
54	Complete structure of the glycosyl phosphatidylinositol membrane anchor of rat brain Thy-1 glycoprotein. Nature, 1988, 333, 269-272.	27.8	463

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55	Inhibition of HIV replication by amino-sugar derivatives. FEBS Letters, 1988, 237, 128-132.	2.8	338
56	The beta1 2-d-xylose and alpha1 3-l-fucose substituted N-linked oligosaccharides from Erythrina cristagalli lectin. Isolation, characterisation and comparison with other legume lectins. FEBS Journal, 1987, 166, 311-320.	0.2	150
57	The effect of aglycosylation on the binding of mouse IgG to staphylococcal protein A. FEBS Letters, 1983, 164, 227-230.	2.8	37
58	Structural Basis of Recognition in the Immune Response. Biochemical Society Transactions, 1978, 6, 1126-1131.	3.4	13
59	The binding of 2,4,6-trinitrophenyl derivatives to the mouse myeloma immunoglobulin A protein MOPC 315. Biochemical Journal, 1978, 169, 179-188.	3.7	18
60	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. Biochemical Journal, 1977, 165, 199-206.	3.7	20
61	Some recent applications of the use of paramagnetic centres to probe biological systems using nuclear magnetic resonance. Quarterly Reviews of Biophysics, 1977, 10, 421-484.	5.7	24
62	The gross architecture of an antibody-combining site as determined by spin-label mapping. Biochemical Journal, 1977, 165, 177-197.	3.7	31
63	The combining site of the dinitrophenyl-binding immunoglobulin A myeloma protein MOPC 315. Biochemical Journal, 1977, 165, 207-223.	3.7	44
64	Specific spin labelling of the Fc region of immunoglobulins. FEBS Letters, 1977, 80, 133-136.	2.8	32
65	Investigation of hapten-antibody interactions in McPC603 by 1 H and 31 P NMR spectroscopy. FEBS Letters, 1977, 84, 87-91.	2.8	5
66	The Determination of Molecular-Motion Parameters from Proton-Relaxation-Enhancement Measurements in a Number of Gd(III) . antibody-fragment Complexes. A Comparative Study. FEBS Journal, 1977, 75, 445-453.	0.2	14
67	Conformational Changes in Glycogen Phosphorylase Studied with a Spin-Label Probe. FEBS Journal, 1976, 61, 237-242.	0.2	17
68	Heterotropic Interactions of Ligands with Phosphorylase b. FEBS Journal, 1976, 61, 243-251.	0.2	18
69	Difficulties in Determining Accurate Molecular Motion Parameters from Proton Relaxation Enhancement Measurements as Illustrated by the Immunoglobulin G . Gd(III) System. FEBS Journal, 1976, 71, 519-528.	0.2	21
70	Structural Studies on the Combining Site of the Myeloma Protein MOPC 315. FEBS Journal, 1975, 53, 25-39.	0.2	37
71	Spin-Labelled Phosphofructokinase. A Simple and Direct Approach to the Study of Allosteric Equilibria under Near-Physiological Conditions. FEBS Journal, 1975, 60, 187-198.	0.2	12
72	The Mechanism of Water-Proton Relaxation in Enzyme . Paramagnetic-Ion Complexes. 1. The Gd(III) . Lysozyme Complex. FEBS Journal, 1974, 47, 271-283.	0.2	40

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73	The Mechanism of Water-Proton Relaxation in Enzyme . Paramagnetic-Ion Complexes. 2. The Mn(II) . ATP . Phosphofructokinase Ternary Complex. FEBS Journal, 1974, 47, 285-293.	0.2	12
74	The preparation and properties of pyruvate kinase from yeast. Biochemical Journal, 1974, 139, 665-675.	3.7	5
75	Nuclear Magnetic Resonance Studies of Macromolecules with Fluorine Nuclei as Probes. Novartis Foundation Symposium, 1972, 2, 239-279.	1.1	0