Daan van Aalten

List of Publications by Year
in descending order

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167 papers	15,513 citations	23567 58 h-index	18647 119 g-index
173 all docs	173 docs citations	173 times ranked	19267 citing authors

#	Article	IF	Citations
1	PRODRG: a tool for high-throughput crystallography of proteinâ€“ligand complexes. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 1355-1363.	2.5	4,230
2	PDK1, the master regulator of AGC kinase signal transduction. Seminars in Cell and Developmental Biology, 2004, 15, 161-170.	5.0	715
3	The Non-catalytic Chitin-binding Protein CBP21 from Serratia marcescens Is Essential for Chitin Degradation. Journal of Biological Chemistry, 2005, 280, 28492-28497.	3.4	321
4	Structure of the LKB1-STRAD-MO25 Complex Reveals an Allosteric Mechanism of Kinase Activation. Science, 2009, 326, 1707-1711.	12.6	287
5	High-Resolution Structure of the Pleckstrin Homology Domain of Protein Kinase B/Akt Bound to Phosphatidylinositol (3,4,5)-Trisphosphate. Current Biology, 2002, 12, 1256-1262.	3.9	273
6	N-myristoyltransferase inhibitors as new leads to treat sleeping sickness. Nature, 2010, 464, 728-732.	27.8	272
7	Glucose and glutamine fuel protein O-GlcNAcylation to control T cell self-renewal and malignancy. Nature Immunology, 2016, 17, 712-720.	14.5	265
8	Crystal Structure and Binding Properties of the Serratia marcescens Chitin-binding Protein CBP21. Journal of Biological Chemistry, 2005, 280, 11313-11319.	3.4	257
9	BslA is a self-assembling bacterial hydrophobin that coats the Bacillus subtilis biofilm. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13600-13605.	7.1	244
10	Binding of phosphatidylinositol 3,4,5-trisphosphate to the pleckstrin homology domain of protein kinase B induces a conformational change. Biochemical Journal, 2003, 375, 531-538.	3.7	243
11	Structure and metal-dependent mechanism of peptidoglycan deacetylase, a streptococcal virulence factor. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 15429-15434.	7.1	196
12	Structure of Human Chitotriosidase. Journal of Biological Chemistry, 2002, 277, 25537-25544.	3.4	185
13	Binding to serine 65â€phosphorylated ubiquitin primes Parkin for optimal <scp>PINK</scp> 1â€dependent phosphorylation and activation. EMBO Reports, 2015, 16, 939-954.	4.5	183
14	Structural insights into the mechanism and inhibition of eukaryotic O-GlcNAc hydrolysis. EMBO Journal, 2006, 25, 1569-1578.	7.8	181
15	Activity-based E3 ligase profiling uncovers an E3 ligase with esterification activity. Nature, 2018, 556, 381-385.	27.8	178
16	High resolution crystal structure of the human PDK1 catalytic domain defines the regulatory phosphopeptide docking site. EMBO Journal, 2002, 21, 4219-4228.	7.8	176
17	Structural insights into the regulation of PDK1 by phosphoinositides and inositol phosphates. EMBO Journal, 2004, 23, 3918-3928.	7.8	167
18	Mutational and computational analysis of the role of conserved residues in the active site of a family 18 chitinase. FEBS Journal, 2004, 271, 253-262.	0.2	164

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19	Proteome Wide Purification and Identification of O-GlcNAc-Modified Proteins Using Click Chemistry and Mass Spectrometry. Journal of Proteome Research, 2013, 12, 927-936.	3.7	151
20	The Vibrio cholerae Colonization Factor GbpA Possesses a Modular Structure that Governs Binding to Different Host Surfaces. PLoS Pathogens, 2012, 8, e1002373.	4.7	150
21	Structure and Mechanism of Chitin Deacetylase from the Fungal PathogenColletotrichum lindemuthianumâ€,â€¡. Biochemistry, 2006, 45, 9416-9426.	2.5	149
22	O-GlcNAcylation of TAB1 modulates TAK1-mediated cytokine release. EMBO Journal, 2012, 31, 1394-1404.	7.8	138
23	GlcNAcstatin:Â a Picomolar, SelectiveO-GlcNAcase Inhibitor That Modulates IntracellularO-GlcNAcylation Levels. Journal of the American Chemical Society, 2006, 128, 16484-16485.	13.7	136
24	Structure-Based Exploration of Cyclic Dipeptide Chitinase Inhibitors. Journal of Medicinal Chemistry, 2004, 47, 5713-5720.	6.4	134
25	Analysis of the LKB1-STRAD-MO25 complex. Journal of Cell Science, 2004, 117, 6365-6375.	2.0	130
26	Pseudokinases-remnants of evolution or key allosteric regulators?. Current Opinion in Structural Biology, 2010, 20, 772-781.	5.7	130
27	Structure and Ligand-induced Conformational Change of the 39-kDa Glycoprotein from Human Articular Chondrocytes. Journal of Biological Chemistry, 2003, 278, 30206-30212.	3.4	125
28	O-GlcNAc transferase invokes nucleotide sugar pyrophosphate participation in catalysis. Nature Chemical Biology, 2012, 8, 969-974.	8.0	123
29	ATP and MO25Î± Regulate the Conformational State of the STRADÎ± Pseudokinase and Activation of the LKB1 Tumour Suppressor. PLoS Biology, 2009, 7, e1000126.	5.6	118
30	Structural basis for UCN-01 (7-hydroxystaurosporine) specificity and PDK1 (3-phosphoinositide-dependent protein kinase-1) inhibition. Biochemical Journal, 2003, 375, 255-262.	3.7	116
31	Mutation of the PDK1 PH Domain Inhibits Protein Kinase B/Akt, Leading to Small Size and Insulin Resistance. Molecular and Cellular Biology, 2008, 28, 3258-3272.	2.3	115
32	The active site of O-GlcNAc transferase imposes constraints on substrate sequence. Nature Structural and Molecular Biology, 2015, 22, 744-750.	8.2	114
33	High Resolution Crystal Structures of Siglec-7. Journal of Biological Chemistry, 2003, 278, 3372-3377.	3.4	109
34	Specificity and Affinity of Natural Product Cyclopentapeptide Inhibitors against A. fumigatus, Human, and Bacterial Chitinases. Chemistry and Biology, 2005, 12, 65-76.	6.0	109
35	Methylxanthine Drugs Are Chitinase Inhibitors: Investigation of Inhibition and Binding Modes. Chemistry and Biology, 2005, 12, 973-980.	6.0	108
36	Structural insights into mechanism and specificity of O-GlcNAc transferase. EMBO Journal, 2008, 27, 2780-2788.	7.8	102

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37	The ubiquitin-associated domain of AMPK-related kinases regulates conformation and LKB1-mediated phosphorylation and activation. Biochemical Journal, 2006, 394, 545-555.	3.7	95
38	High-resolution structures of a chitinase complexed with natural product cyclopentapeptide inhibitors: Mimicry of carbohydrate substrate. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 9127-9132.	7.1	93
39	Pound-Wise but Penny-Foolish. Structure, 2003, 11, 1051-1059.	3.3	90
40	Structural insights into the recognition of substrates and activators by the OSR1 kinase. EMBO Reports, 2007, 8, 839-845.	4.5	89
41	Discovery of catalytically active orthologues of the Parkinson's disease kinase PINK1: analysis of substrate specificity and impact of mutations. Open Biology, 2011, 1, 110012.	3.6	88
42	Structures ofBacillus subtilisPdaA, a family 4 carbohydrate esterase, and a complex withN-acetyl-glucosamine. FEBS Letters, 2004, 570, 13-19.	2.8	83
43	GlcNAcstatins are nanomolar inhibitors of human O-GlcNAcase inducing cellular hyper-O-GlcNAcylation. Biochemical Journal, 2009, 420, 221-227.	3.7	83
44	Siglec-7 Undergoes a Major Conformational Change When Complexed with the Î±(2,8)-Disialylganglioside GT1b. Journal of Biological Chemistry, 2006, 281, 32774-32783.	3.4	82
45	Natural product family 18 chitinase inhibitors. Natural Product Reports, 2005, 22, 563.	10.3	79
46	PAS Domains. Journal of Biological Chemistry, 2003, 278, 18434-18439.	3.4	73
47	TAK1-binding protein 1 is a pseudophosphatase. Biochemical Journal, 2006, 399, 427-434.	3.7	73
48	Kinetic, inhibition and structural studies on 3-oxoacyl-ACP reductase from Plasmodium falciparum, a key enzyme in fatty acid biosynthesis. Biochemical Journal, 2006, 393, 447-457.	3.7	72
49	Structure of Saccharomyces cerevisiae Chitinase 1 and Screening-Based Discovery of Potent Inhibitors. Chemistry and Biology, 2007, 14, 589-599.	6.0	72
50	Mutations in N-acetylglucosamine (O-GlcNAc) transferase in patients with X-linked intellectual disability. Journal of Biological Chemistry, 2017, 292, 12621-12631.	3.4	72
51	Crystal Structures of Allosamidin Derivatives in Complex with Human Macrophage Chitinase. Journal of Biological Chemistry, 2003, 278, 20110-20116.	3.4	71
52	Structure of PINK1 and mechanisms of Parkinson's disease-associated mutations. ELife, 2017, 6, .	6.0	71
53	Crystal structure of the liganded SCP-2-like domain of human peroxisomal multifunctional enzyme type 2 at 1.75 Ã... resolution 1 1Edited by R. Huber. Journal of Molecular Biology, 2001, 313, 1127-1138.	4.2	70
54	The structure of siglec-7 in complex with sialosides: leads for rational structure-based inhibitor design. Biochemical Journal, 2006, 397, 271-278.	3.7	70

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55	Phosphorylation of Synaptic Vesicle Protein 2A at Thr84 by Casein Kinase 1 Family Kinases Controls the Specific Retrieval of Synaptotagmin-1. Journal of Neuroscience, 2015, 35, 2492-2507.	3.6	70
56	Essential dynamics of DNA containing a cis.syn cyclobutane thymine dimer lesion. Nucleic Acids Research, 1998, 26, 1939-1946.	14.5	69
57	Molecular Mechanisms of Yeast Cell Wall Glucan Remodeling. Journal of Biological Chemistry, 2009, 284, 8461-8469.	3.4	67
58	O-GlcNAc transferase inhibitors: current tools and future challenges. Biochemical Society Transactions, 2016, 44, 88-93.	3.4	65
59	Crystal structure of MO25Î± in complex with the C terminus of the pseudo kinase STE20-related adaptor. Nature Structural and Molecular Biology, 2004, 11, 193-200.	8.2	62
60	Substrate and product analogues as human O-GlcNAc transferase inhibitors. Amino Acids, 2011, 40, 781-792.	2.7	60
61	Structure-Based Dissection of the Natural Product Cyclopentapeptide Chitinase Inhibitor Argifin. Chemistry and Biology, 2008, 15, 295-301.	6.0	59
62	Human OGA binds substrates in a conserved peptide recognition groove. Biochemical Journal, 2010, 432, 1-12.	3.7	58
63	Catalytic deficiency of O-GlcNAc transferase leads to X-linked intellectual disability. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14961-14970.	7.1	58
64	The cyclic dipeptide CI-4 [cyclo-(l-Arg-d-Pro)] inhibits family 18 chitinases by structural mimicry of a reaction intermediate. Biochemical Journal, 2002, 368, 23-27.	3.7	57
65	Bisubstrate UDPâ€“peptide conjugates as human O-GlcNAc transferase inhibitors. Biochemical Journal, 2014, 457, 497-502.	3.7	57
66	Lead Optimization of a Pyrazole Sulfonamide Series of Trypanosoma brucei N-Myristoyltransferase Inhibitors: Identification and Evaluation of CNS Penetrant Compounds as Potential Treatments for Stage 2 Human African Trypanosomiasis. Journal of Medicinal Chemistry, 2014, 57, 9855-9869.	6.4	57
67	Structure of the D142N mutant of the family 18 chitinase ChiB from Serratia marcescens and its complex with allosamidin. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2004, 1696, 103-111.	2.3	56
68	Human YKL-39 is a pseudo-chitinase with retained chitooligosaccharide-binding properties. Biochemical Journal, 2012, 446, 149-157.	3.7	55
69	Screening-based Discovery and Structural Dissection of a Novel Family 18 Chitinase Inhibitor. Journal of Biological Chemistry, 2006, 281, 27278-27285.	3.4	53
70	Molecular mechanisms of O-GlcNAcylation. Current Opinion in Structural Biology, 2008, 18, 551-557.	5.7	53
71	Cell-Penetrant, Nanomolar O-GlcNAcase Inhibitors Selective against Lysosomal Hexosaminidases. Chemistry and Biology, 2010, 17, 1250-1255.	6.0	52
72	A mutant O-GlcNAcase enriches Drosophila developmental regulators. Nature Chemical Biology, 2017, 13, 882-887.	8.0	51

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73	The crystal structure of Î”3-Î”2-enoyl-CoA isomerase. Journal of Molecular Biology, 2001, 309, 845-853.	4.2	50
74	Elevated O-GlcNAc Levels Activate Epigenetically Repressed Genes and Delay Mouse ESC Differentiation Without Affecting NaÃ¯ve to Primed Cell Transition. Stem Cells, 2014, 32, 2605-2615.	3.2	50
75	O-GlcNAcase: Promiscuous Hexosaminidase or Key Regulator of O-GlcNAc Signaling?. Journal of Biological Chemistry, 2014, 289, 34433-34439.	3.4	50
76	Genetic recoding to dissect the roles of site-specific protein O-GlcNAcylation. Nature Structural and Molecular Biology, 2019, 26, 1071-1077.	8.2	50
77	Chemical Dissection of the Link between Streptozotocin, O-GlcNAc, and Pancreatic Cell Death. Chemistry and Biology, 2008, 15, 799-807.	6.0	48
78	Synergy of Peptide and Sugar in O-GlcNAcase Substrate Recognition. Chemistry and Biology, 2012, 19, 173-178.	6.0	48
79	Recognition of a glycosylation substrate by the O-GlcNAc transferase TPR repeats. Open Biology, 2017, 7, 170078.	3.6	48
80	Interactions of a Family 18 Chitinase with the Designed Inhibitor HM508 and Its Degradation Product, Chitobiono-Î´-lactone. Journal of Biological Chemistry, 2004, 279, 3612-3619.	3.4	47
81	Structure of a bacterial putative acetyltransferase defines the fold of the human O -GlcNAcase C-terminal domain. Open Biology, 2013, 3, 130021.	3.6	47
82	Nucleocytoplasmic human O-GlcNAc transferase is sufficient for O-GlcNAcylation of mitochondrial proteins. Biochemical Journal, 2016, 473, 1693-1702.	3.7	47
83	Acetazolamide-based fungal chitinase inhibitors. Bioorganic and Medicinal Chemistry, 2010, 18, 8334-8340.	3.0	46
84	A Structural and Biochemical Model of Processive Chitin Synthesis. Journal of Biological Chemistry, 2014, 289, 23020-23028.	3.4	46
85	<scp>GacA</scp> is essential for <scp>G</scp>roup <scp>A S</scp>treptococcus and defines a new class of monomeric d<scp>TDP</scp>â€4â€dehydrorhamnose reductases (<scp>RmlD</scp>). Molecular Microbiology, 2015, 98, 946-962.	2.5	46
86	Analyzing Airway Inflammation with Chemical Biology: Dissection of Acidic Mammalian Chitinase Function with a Selective Drug-like Inhibitor. Chemistry and Biology, 2011, 18, 569-579.	6.0	44
87	Natural Productâ€“Guided Discovery of a Fungal Chitinase Inhibitor. Chemistry and Biology, 2010, 17, 1275-1281.	6.0	41
88	A missense mutation in the catalytic domain of Oâ€GlcNAc transferase links perturbations in protein Oâ€GlcNAcylation to Xâ€linked intellectual disability. FEBS Letters, 2020, 594, 717-727.	2.8	40
89	Sequence, chromophore extraction and 3-D model of the photoactive yellow protein from Rhodobacter sphaeroides. BBA - Proteins and Proteomics, 1998, 1385, 1-6.	2.1	39
90	An efficient synthesis of argifin: A natural product chitinase inhibitor with chemotherapeutic potential. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 4717-4721.	2.2	39

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91	Structural Basis of Reduction-dependent Activation of Human Cystatin F. Journal of Biological Chemistry, 2006, 281, 16570-16575.	3.4	39
92	Structure of the OSR1 kinase, a hypertension drug target. Proteins: Structure, Function and Bioinformatics, 2008, 73, 1082-1087.	2.6	39
93	The N-Acetyl-D-glucosaminylphosphatidylinositol De-N-acetylase of Glycosylphosphatidylinositol Biosynthesis Is a Zinc Metalloenzyme. Journal of Biological Chemistry, 2005, 280, 22831-22838.	3.4	38
94	N-Myristoyltransferase Is a Cell Wall Target in Aspergillus fumigatus. ACS Chemical Biology, 2015, 10, 1425-1434.	3.4	38
95	An intellectual disability syndrome with single-nucleotide variants in O-GlcNAc transferase. European Journal of Human Genetics, 2020, 28, 706-714.	2.8	38
96	Tyrosine glycosylation of Rho by Yersinia toxin impairs blastomere cell behaviour in zebrafish embryos. Nature Communications, 2015, 6, 7807.	12.8	37
97	Role of T-loop Phosphorylation in PDK1 Activation, Stability, and Substrate Binding. Journal of Biological Chemistry, 2005, 280, 18797-18802.	3.4	36
98	Solid-phase synthesis of cyclic peptide chitinase inhibitors: SAR of the argifin scaffold. Organic and Biomolecular Chemistry, 2009, 7, 259-268.	2.8	35
99	Crystal Structure of the PTPL1/FAP-1 Human Tyrosine Phosphatase Mutated in Colorectal Cancer. Journal of Biological Chemistry, 2005, 280, 8180-8187.	3.4	34
100	Thio-Linked UDPâ€“Peptide Conjugates as O-GlcNAc Transferase Inhibitors. Bioconjugate Chemistry, 2018, 29, 1834-1840.	3.6	34
101	Molecular mechanism of elongation factor 1A inhibition by a Legionella pneumophila glycosyltransferase. Biochemical Journal, 2010, 426, 281-292.	3.7	33
102	Dual functionality of O -GlcNAc transferase is required for Drosophila development. Open Biology, 2015, 5, 150234.	3.6	32
103	Conformational substates in different crystal forms of the photoactive yellow proteinâ€”Correlation with theoretical and experimental flexibility. Protein Science, 2000, 9, 64-72.	7.6	31
104	Essential Dynamics from NMR Clusters: Dynamic Properties of the Myb DNA-Binding Domain and a Hinge-Bending Enhancing Variant. Methods, 1998, 14, 318-328.	3.8	30
105	The O-GlcNAc Transferase Intellectual Disability Mutation L254F Distorts the TPR Helix. Cell Chemical Biology, 2018, 25, 513-518.e4.	5.2	30
106	Screeningâ€based discovery of drugâ€like Oâ€GlcNAcase inhibitor scaffolds. FEBS Letters, 2010, 584, 694-700.	2.8	29
107	Genetic and structural validation of <scp>A</scp>spergillus fumigatusâ€…<scp>UDP</scp>â€<scp>N</scp>â€acetylglucosamine pyrophosphorylase as an antifungal target. Molecular Microbiology, 2013, 89, 479-493.	2.5	29
108	Evidence for a Functional O-Linked N-Acetylglucosamine (O-GlcNAc) System in the Thermophilic Bacterium Thermobaculum terrenum. Journal of Biological Chemistry, 2015, 290, 30291-30305.	3.4	29

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109	Loss of O-GlcNAcase catalytic activity leads to defects in mouse embryogenesis. Journal of Biological Chemistry, 2021, 296, 100439.	3.4	28
110	Crystal Structure of Carboxypeptidase A Complexed with d-Cysteine at 1.75 Ã... â˚ Inhibitor-Induced Conformational Changes,. Biochemistry, 2000, 39, 10082-10089.	2.5	27
111	Structural and functional characterization of a putative polysaccharide deacetylase of the human parasite Encephalitozoon cuniculi. Protein Science, 2009, 18, 1197-1209.	7.6	27
112	Chemical tools to probe cellular O-GlcNAc signalling. Biochemical Journal, 2013, 456, 1-12.	3.7	27
113	Structural and kinetic differences between human and Aspergillus fumigatus <scp>D</scp>-glucosamine-6-phosphate N-acetyltransferase. Biochemical Journal, 2008, 415, 217-223.	3.7	26
114	Dynamic Properties of the Guanine Nucleotide Binding Protein Î± Subunit and Comparison of Its Guanosine Triphosphate Hydrolase Domain with That ofrasp21â€. Biochemistry, 1998, 37, 3137-3142.	2.5	24
115	Protein O-GlcNAcylation Is Required for Fibroblast Growth Factor Signaling in Drosophila. Science Signaling, 2011, 4, ra89.	3.6	24
116	Yeast Mnn9 is both a priming glycosyltransferase and an allosteric activator of mannan biosynthesis. Open Biology, 2013, 3, 130022.	3.6	24
117	Efficient synthesis of 1,3,7-substituted xanthines by a safety-catch protection strategy. Tetrahedron, 2007, 63, 12294-12302.	1.9	23
118	IQGAP Proteins Reveal an Atypical Phosphoinositide (aPI) Binding Domain with a Pseudo C2 Domain Fold. Journal of Biological Chemistry, 2012, 287, 22483-22496.	3.4	23
119	A Novel Allosteric Inhibitor of the Uridine Diphosphate N-Acetylglucosamine Pyrophosphorylase from Trypanosoma brucei. ACS Chemical Biology, 2013, 8, 1981-1987.	3.4	23
120	Effects of hypo-O-GlcNAcylation on Drosophila development. Journal of Biological Chemistry, 2018, 293, 7209-7221.	3.4	23
121	First Synthesis of Argadin: A Nanomolar Inhibitor of Family-18 Chitinases. European Journal of Organic Chemistry, 2006, 2006, 5002-5006.	2.4	22
122	Streptococcus mutans SMU.623c Codes for a Functional, Metal-Dependent Polysaccharide Deacetylase That Modulates Interactions with Salivary Agglutinin. Journal of Bacteriology, 2009, 191, 394-402.	2.2	22
123	Genetic and structural validation of Aspergillus fumigatus N-acetylphosphoglucosamine mutase as an antifungal target. Bioscience Reports, 2013, 33, .	2.4	22
124	Tools for functional dissection of site-specific O-GlcNAcylation. RSC Chemical Biology, 2020, 1, 98-109.	4.1	22
125	Proteolysis of HCF-1 by Ser/Thr glycosylation-incompetent O-GlcNAc transferase:UDP-GlcNAc complexes. Genes and Development, 2016, 30, 960-972.	5.9	21
126	Direct Monitoring of Protein O-GlcNAcylation by High-Resolution Native Mass Spectrometry. ACS Chemical Biology, 2017, 12, 2078-2084.	3.4	21

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127	Novel Inositol Phospholipid Headgroup Surrogate Crystallized in the Pleckstrin Homology Domain of Protein Kinase BÎ±. ACS Chemical Biology, 2007, 2, 242-246.	3.4	20
128	Bisdionin Câ€"A Rationally Designed, Submicromolar Inhibitor of Family 18 Chitinases. ACS Medicinal Chemistry Letters, 2011, 2, 428-432.	2.8	20
129	A mechanism-inspired UDP-N-acetylglucosamine pyrophosphorylase inhibitor. RSC Chemical Biology, 2020, 1, 13-25.	4.1	20
130	Mechanisms of redundancy and specificity of the Aspergillus fumigatus Crh transglycosylases. Nature Communications, 2019, 10, 1669.	12.8	18
131	Charge-Surrounded Pockets and Electrostatic Interactions with Small Ions Modulate the Activity of Retroviral Fusion Proteins. PLoS Pathogens, 2011, 7, e1001268.	4.7	17
132	Loss of CRMP2 O-GlcNAcylation leads to reduced novel object recognition performance in mice. Open Biology, 2019, 9, 190192.	3.6	17
133	Targeting a critical step in fungal hexosamine biosynthesis. Journal of Biological Chemistry, 2020, 295, 8678-8691.	3.4	16
134	O-GlcNAcase contributes to cognitive function in Drosophila. Journal of Biological Chemistry, 2020, 295, 8636-8646.	3.4	16
135	Glucoseâ€6â€phosphate as a probe for the glucosamineâ€6â€phosphate Nâ€acetyltransferase Michaelis complex. FEBS Letters, 2007, 581, 5597-5600.	2.8	15
136	Screening-based discovery of Aspergillus fumigatus plant-type chitinase inhibitors. FEBS Letters, 2014, 588, 3282-3290.	2.8	15
137	The Early Metazoan Trichoplax adhaerens Possesses a Functional O-GlcNAc System. Journal of Biological Chemistry, 2015, 290, 11969-11982.	3.4	15
138	Structural and biochemical characterization of a trapped coenzyme A adduct ofCaenorhabditis elegansglucosamine-6-phosphateN-acetyltransferase 1. Acta Crystallographica Section D: Biological Crystallography, 2012, 68, 1019-1029.	2.5	14
139	Structure of the photoactive yellow protein reconstituted with caffeic acid at 1.16â€…Ã… resolution. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 585-590.	2.5	13
140	Engineering Photocycle Dynamics. Journal of Biological Chemistry, 2002, 277, 6463-6468.	3.4	12
141	The transfer of transthyretin and receptor-binding properties from the plasma retinol-binding protein to the epididymal retinoic acid-binding protein. Biochemical Journal, 2002, 362, 265.	3.7	11
142	Highly specific inhibition of leukaemia virus membrane fusion by interaction of peptide antagonists with a conserved region of the coiled coil of envelope. Retrovirology, 2008, 5, 70.	2.0	11
143	A sweet TET-Ã-tÃªte-synergy of TET proteins and O-GlcNAc transferase in transcription. EMBO Journal, 2013, 32, 612-613.	7.8	11
144	An efficient and versatile synthesis of GlcNAcstatinsâ€"potent and selective O-GlcNAcase inhibitors built on the tetrahydroimidazo[1,2-a]pyridine scaffold. Tetrahedron, 2010, 66, 7838-7849.	1.9	9

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145	The citron homology domain as a scaffold for Rho1 signaling. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	9
146	UDPâ€GlcNAc Analogues as Inhibitors of Oâ€GlcNAc Transferase (OGT): Spectroscopic, Computational, and Biological Studies. Chemistry - A European Journal, 2018, 24, 7264-7272.	3.3	8
147	O-GlcNAcase Fragment Discovery with Fluorescence Polarimetry. ACS Chemical Biology, 2018, 13, 1353-1360.	3.4	8
148	Inhibitors against Fungal Cell Wall Remodeling Enzymes. ChemMedChem, 2018, 13, 128-132.	3.2	7
149	The conserved threonine-rich region of the HCF-1PRO repeat activates promiscuous OGT:UDP-GlcNAc glycosylation and proteolysis activities. Journal of Biological Chemistry, 2018, 293, 17754-17768.	3.4	7
150	Genetic and structural validation of phosphomannomutase as a cell wall target in Aspergillus fumigatus. Molecular Microbiology, 2021, 116, 245-259.	2.5	7
151	Intellectual disability-associated disruption of O-GlcNAc cycling impairs habituation learning in Drosophila. PLoS Genetics, 2022, 18, e1010159.	3.5	7
152	Crystallization and X-ray diffraction studies of the fatty-acid responsive transcription factor FadR fromEscherichia coli. Acta Crystallographica Section D: Biological Crystallography, 2000, 56, 469-471.	2.5	6
153	Crystallization and X-ray diffraction analysis of peroxisomal Î”3-Î”2-enoyl-CoA isomerase fromSaccharomyces cerevisiae. Acta Crystallographica Section D: Biological Crystallography, 2000, 56, 1020-1023.	2.5	5
154	Purification, crystallization and preliminary X-ray diffraction of a proteolytic fragment of PDK1 containing the pleckstrin homology domain. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 314-316.	2.5	4
155	O-GlcNAc transfer: size matters. Nature Chemical Biology, 2011, 7, 134-135.	8.0	4
156	Native detection of protein O-GlcNAcylation by gel electrophoresis. Analyst, The, 2020, 145, 6826-6830.	3.5	4
157	Bioinformatic prediction of putative conveyers of O-GlcNAc transferase intellectual disability. Journal of Biological Chemistry, 2022, 298, 102276.	3.4	4
158	Purification, crystallization and preliminary X-ray diffraction data of UDP-galactopyranose mutase fromAspergillus fumigatus. Acta Crystallographica Section F: Structural Biology Communications, 2012, 68, 705-708.	0.7	3
159	A missense mutation in a patient with developmental delay affects the activity and structure of the hexosamine biosynthetic pathway enzyme AGX1. FEBS Letters, 2021, 595, 110-122.	2.8	3
160	A mouse model for functional dissection of TAB1 O-GlcNAcylation. Wellcome Open Research, 2019, 4, 128.	1.8	3
161	Genetic validation of Aspergillus fumigatus phosphoglucomutase as a viable therapeutic target in invasive aspergillosis. Journal of Biological Chemistry, 2022, 298, 102003.	3.4	3
162	Synthesis and Structure-based Dissection of Cyclic Peptide Chitinase Inhibitors: New Leads for Antifungal and Anti-Inflammatory Drugs. Advances in Experimental Medicine and Biology, 2009, 611, 525-526.	1.6	2

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