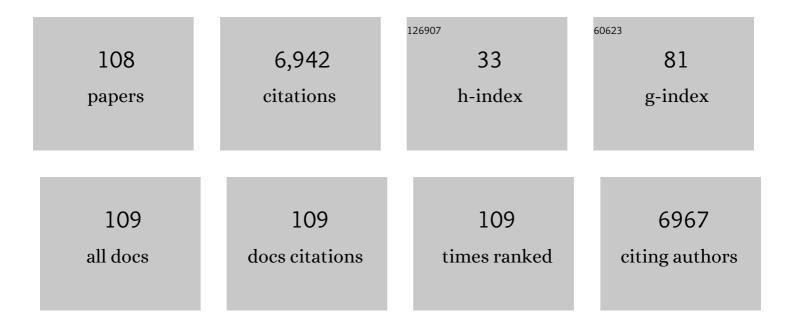
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	NAC transcription factors: structurally distinct, functionally diverse. Trends in Plant Science, 2005, 10, 79-87.	8.8	1,214
2	Insights into the oxidative degradation of cellulose by a copper metalloenzyme that exploits biomass components. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 15079-15084.	7.1	861
3	Stimulation of Lignocellulosic Biomass Hydrolysis by Proteins of Glycoside Hydrolase Family 61: Structure and Function of a Large, Enigmatic Family. Biochemistry, 2010, 49, 3305-3316.	2.5	679
4	Structure of the conserved domain of ANAC, a member of the NAC family of transcription factors. EMBO Reports, 2004, 5, 297-303.	4.5	388
5	The molecular basis of polysaccharide cleavage by lytic polysaccharide monooxygenases. Nature Chemical Biology, 2016, 12, 298-303.	8.0	264
6	Structure and boosting activity of a starch-degrading lytic polysaccharide monooxygenase. Nature Communications, 2015, 6, 5961.	12.8	254
7	β-Glucosidase, β-galactosidase, family A cellulases, family F xylanases and two barley glycanases form a superfamily of enzymes wit 8-fold β/α architecture and with two conserved glutamates near the carboxy-terminal ends of β-strands four and seven. FEBS Letters, 1995, 362, 281-285.	2.8	245
8	DNA-binding specificity and molecular functions of NAC transcription factors. Plant Science, 2005, 169, 785-797.	3.6	171
9	Structure of the catalytic core of the family F xylanase from Pseudomonas fluorescens and identification of the xylopentaose-binding sites. Structure, 1994, 2, 1107-1116.	3.3	148
10	Structural and electronic determinants of lytic polysaccharide monooxygenase reactivity on polysaccharide substrates. Nature Communications, 2017, 8, 1064.	12.8	134
11	Insulin-stimulated GLUT4 glucose transporter recycling. A problem in membrane protein subcellular trafficking through multiple pools. Journal of Biological Chemistry, 1994, 269, 17516-24.	3.4	132
12	Structure of the Sulfolobus solfataricus α-Glucosidase: Implications for Domain Conservation and Substrate Recognition in GH31. Journal of Molecular Biology, 2006, 358, 1106-1124.	4.2	126
13	Evolutionary adaptation in fucosyllactose uptake systems supports bifidobacteria-infant symbiosis. Science Advances, 2019, 5, eaaw7696.	10.3	120
14	Lytic polysaccharide monooxygenases: a crystallographer's view on a new class of biomass-degrading enzymes. IUCrJ, 2016, 3, 448-467.	2.2	84
15	Recent insights into lytic polysaccharide monooxygenases (LPMOs). Biochemical Society Transactions, 2018, 46, 1431-1447.	3.4	82
16	DNA binding by the plant-specific NAC transcription factors in crystal and solution: a firm link to WRKY and GCM transcription factors. Biochemical Journal, 2012, 444, 395-404.	3.7	77
17	High resolution structure and sequence ofT. aurantiacus Xylanase I: Implications for the evolution of thermostability in family 10 xylanases and enzymes with ??-barrel architecture. Proteins: Structure, Function and Bioinformatics, 1999, 36, 295-306.	2.6	75
18	The 1.62 Ã structure ofThermoascus aurantiacusendoglucanase: completing the structural picture of subfamilies in glycoside hydrolase family 5. FEBS Letters, 2002, 523, 103-108.	2.8	73

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19	Enzymology and Structure of the GH13_31 Glucan 1,6-α-Glucosidase That Confers Isomaltooligosaccharide Utilization in the Probiotic Lactobacillus acidophilus NCFM. Journal of Bacteriology, 2012, 194, 4249-4259.	2.2	69
20	Gene cloning, sequencing, and characterization of a family 9 endoglucanase (CelA) with an unusual pattern of activity from the thermoacidophile Alicyclobacillus acidocaldarius ATCC27009. Applied Microbiology and Biotechnology, 2002, 60, 428-436.	3.6	63
21	The Structure and Characterization of a Modular Endo-β-1,4-mannanase from Cellulomonas fimi,. Biochemistry, 2005, 44, 12700-12708.	2.5	63
22	Crystal Structure of α-Galactosidase from Lactobacillus acidophilus NCFM: Insight into Tetramer Formation and Substrate Binding. Journal of Molecular Biology, 2011, 412, 466-480.	4.2	63
23	A fungal family of lytic polysaccharide monooxygenase-like copper proteins. Nature Chemical Biology, 2020, 16, 345-350.	8.0	63
24	A lytic polysaccharide monooxygenase-like protein functions in fungal copper import and meningitis. Nature Chemical Biology, 2020, 16, 337-344.	8.0	61
25	Substrate specificity and subsite mobility inT. aurantiacusxylanase 10A. FEBS Letters, 2001, 509, 303-308.	2.8	51
26	Short strong hydrogen bonds in proteins: a case study of rhamnogalacturonan acetylesterase. Acta Crystallographica Section D: Biological Crystallography, 2008, 64, 851-863.	2.5	46
27	Structure of two fungal β-1,4-galactanases: Searching for the basis for temperature and pH optimum. Protein Science, 2003, 12, 1195-1204.	7.6	41
28	α-Amylase from mung beans (Vigna radiata) – Correlation of biochemical properties and tertiary structure by homology modelling. Phytochemistry, 2007, 68, 1623-1631.	2.9	39
29	Aspergillus aculeatusβ-1,4-Galactanase: Substrate Recognition and Relations to Other Glycoside Hydrolases in Clan GH-Aâ€. Biochemistry, 2002, 41, 15135-15143.	2.5	37
30	A STRUCTURAL OVERVIEW OF GH61 PROTEINS – FUNGAL CELLULOSE DEGRADING POLYSACCHARIDE MONOOXYGENASES. Computational and Structural Biotechnology Journal, 2012, 2, e201209019.	4.1	37
31	Structure of a dimeric fungal α-type carbonic anhydrase. FEBS Letters, 2011, 585, 1042-1048.	2.8	35
32	A β1â€6/β1â€3 galactosidase from B ifidobacterium animalis subsp. lactis †B lâ€04 gives insight into subâ€specificities of βâ€galactoside catabolism within B ifidobacterium. Molecular Microbiology, 2014, 94, 1024-1040.	2.5	35
33	Structure of a lytic polysaccharide monooxygenase from Aspergillus fumigatus and an engineered thermostable variant. Carbohydrate Research, 2018, 469, 55-59.	2.3	35
34	Biochemical and structural features of diverse bacterial glucuronoyl esterases facilitating recalcitrant biomass conversion. Biotechnology for Biofuels, 2018, 11, 213.	6.2	35
35	Lytic polysaccharide monooxygenases and other histidine-brace copper proteins: structure, oxygen activation and biotechnological applications. Biochemical Society Transactions, 2021, 49, 531-540.	3.4	35
36	Rational Engineering of Mannosyl Binding in the Distal Glycone Subsites of <i>Cellulomonas fimi</i> Endo-β-1,4-mannanase: Mannosyl Binding Promoted at Subsite â^'2 and Demoted at Subsite â^'3,. Biochemistry, 2010, 49, 4884-4896.	2.5	34

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37	The Structure and Specificity ofEscherichia coliMaltose Acetyltransferase Give New Insight into the LacA Family of Acyltransferasesâ€,‡. Biochemistry, 2003, 42, 5225-5235.	2.5	33
38	Insights into an unusual Auxiliary Activity 9 family member lacking the histidine brace motif of lytic polysaccharide monooxygenases. Journal of Biological Chemistry, 2019, 294, 17117-17130.	3.4	30
39	X-ray crystallographic study of xylopentaose binding toPseudomonas fluorescens xylanase A. Proteins: Structure, Function and Bioinformatics, 2000, 41, 362-373.	2.6	28
40	Lactococcus lactis Dihydroorotate Dehydrogenase A Mutants Reveal Important Facets of the Enzymatic Function. Journal of Biological Chemistry, 2003, 278, 28812-28822.	3.4	28
41	Preliminary crystallographic analysis of the NAC domain of ANAC, a member of the plant-specific NAC transcription factor family. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 112-115.	2.5	28
42	The Structure of Endo-β-1,4-galactanase from Bacillus licheniformis in Complex with Two Oligosaccharide Products. Journal of Molecular Biology, 2004, 341, 107-117.	4.2	28
43	Biochemical evidence of both copper chelation and oxygenase activity at the histidine brace. Scientific Reports, 2020, 10, 16369.	3.3	27
44	Characterization and crystallization of an active N-terminally truncated form of the Escherichia coli glycogen branching enzyme. FEBS Journal, 2000, 267, 2150-2155.	0.2	26
45	Crystal Structures of A. acidocaldarius Endoglucanase Cel9A in Complex with Cello-Oligosaccharides: Strong â^' 1 and â^' 2 Subsites Mimic Cellobiohydrolase Activity. Journal of Molecular Biology, 2009, 394, 61-70.	4.2	26
46	Structural and Biochemical Studies Elucidate the Mechanism of Rhamnogalacturonan Lyase from Aspergillus aculeatus. Journal of Molecular Biology, 2010, 404, 100-111.	4.2	26
47	Inhibition of sperm-zona binding by suramin, a potential â€ [~] lead' compound for design of new anti-fertility agents. Molecular Human Reproduction, 1996, 2, 597-605.	2.8	25
48	Unliganded and substrate bound structures of the cellooligosaccharide active lytic polysaccharide monooxygenase LsAA9A at low pH. Carbohydrate Research, 2017, 448, 187-190.	2.3	25
49	Mapping of an Internal Protease Cleavage Site in the Ssy5p Component of the Amino Acid Sensor of Saccharomyces cerevisiae and Functional Characterization of the Resulting Pro- and Protease Domains by Gain-of-Function Genetics. Eukaryotic Cell, 2006, 5, 601-608.	3.4	24
50	High resolution structure and sequence of T. aurantiacus xylanase I: implications for the evolution of thermostability in family 10 xylanases and enzymes with (beta)alpha-barrel architecture. Proteins: Structure, Function and Bioinformatics, 1999, 36, 295-306.	2.6	24
51	Recent insight into oligosaccharide uptake and metabolism in probiotic bacteria. Biocatalysis and Biotransformation, 2013, 31, 226-235.	2.0	23
52	Substrate preference of an ABC importer corresponds to selective growth on β-(1,6)-galactosides in Bifidobacterium animalis subsp. lactis. Journal of Biological Chemistry, 2019, 294, 11701-11711.	3.4	21
53	Structure–function analyses reveal that a glucuronoyl esterase from Teredinibacter turnerae interacts with carbohydrates and aromatic compounds. Journal of Biological Chemistry, 2019, 294, 6635-6644.	3.4	21
54	Identification of Quaternary Structure and Functional Domains of the CI Repressor from Bacteriophage TP901-1. Journal of Molecular Biology, 2008, 376, 983-996.	4.2	19

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55	Identification of the molecular determinants driving the substrate specificity of fungal lytic polysaccharide monooxygenases (LPMOs). Journal of Biological Chemistry, 2021, 296, 100086.	3.4	19
56	Xylanase–oligosaccharide interactions studied by a competitive enzyme assay. Enzyme and Microbial Technology, 1999, 25, 701-709.	3.2	18
57	Investigating the binding of βâ€1,4â€galactan to <i>Bacillus licheniformis</i> βâ€1,4â€galactanase by crystallography and computational modeling. Proteins: Structure, Function and Bioinformatics, 2009, 75, 977-989.	2.6	17
58	Structural and biochemical studies of the glucuronoyl esterase OtCE15A illuminate its interaction with lignocellulosic components. Journal of Biological Chemistry, 2019, 294, 19978-19987.	3.4	17
59	Oligosaccharide Binding and Thermostability of Two Related AA9 Lytic Polysaccharide Monooxygenases. Biochemistry, 2020, 59, 3347-3358.	2.5	17
60	Scission of Glucosidic Bonds by a <i>Lentinus similis</i> Lytic Polysaccharide Monooxygenases Is Strictly Dependent on H ₂ O ₂ while the Oxidation of Saccharide Products Depends on O ₂ . ACS Catalysis, 2021, 11, 13848-13859.	11.2	17
61	Learning from oligosaccharide soaks of crystals of an AA13 lytic polysaccharide monooxygenase: crystal packing, ligand binding and active-site disorder. Acta Crystallographica Section D: Structural Biology, 2017, 73, 64-76.	2.3	16
62	NCAM2 Fibronectin type-III domains form a rigid structure that binds and activates the Fibroblast Growth Factor Receptor. Scientific Reports, 2018, 8, 8957.	3.3	16
63	Raffinose family oligosaccharide utilisation by probiotic bacteria: insight into substrate recognition, molecular architecture and diversity of GH36 α-galactosidases. Biocatalysis and Biotransformation, 2012, 30, 316-325.	2.0	15
64	Purification, crystal structure determination and functional characterization of type III antifreeze proteins from the European eelpout Zoarces viviparus. Cryobiology, 2014, 69, 163-168.	0.7	15
65	Mechanism and biomass association of glucuronoyl esterase: an $\hat{1}\pm / \hat{1}^2$ hydrolase with potential in biomass conversion. Nature Communications, 2022, 13, 1449.	12.8	15
66	Activity of three β-1,4-galactanases on small chromogenic substrates. Carbohydrate Research, 2011, 346, 2028-2033.	2.3	14
67	Effect of mutations on the thermostability of Aspergillus aculeatus β-1,4-galactanase. Computational and Structural Biotechnology Journal, 2015, 13, 256-264.	4.1	14
68	Structure of a hyperthermostable carbonic anhydrase identified from an active hydrothermal vent chimney. Enzyme and Microbial Technology, 2018, 114, 48-54.	3.2	14
69	Structural and dynamics studies of a truncated variant of CI repressor from bacteriophage TP901-1. Scientific Reports, 2016, 6, 29574.	3.3	13
70	NAC Transcription Factors: From Structure to Function in Stress-Associated Networks. , 2016, , 199-212.		13
71	Structure and Dynamics of a Promiscuous Xanthan Lyase from Paenibacillus nanensis and the Design of Variants with Increased Stability and Activity. Cell Chemical Biology, 2019, 26, 191-202.e6.	5.2	13
72	Superfamilies: the 4/7 superfamily of <i>β α</i> -barrel glycosidases and the right-handed parallel <i>β</i> -helix superfamily. Biochemical Society Transactions, 1998, 26, 190-197.	3.4	12

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73	Structure-based engineering of glucose specificity in a family 10 xylanase from Streptomyces olivaceoviridis E-86. Process Biochemistry, 2012, 47, 358-365.	3.7	12
74	Binding of the N-Terminal Domain of the Lactococcal Bacteriophage TP901-1 CI Repressor to Its Target DNA: A Crystallography, Small Angle Scattering, and Nuclear Magnetic Resonance Study. Biochemistry, 2013, 52, 6892-6904.	2.5	12
75	Probing the determinants of the transglycosylation/hydrolysis partition in a retaining α-l-arabinofuranosidase. New Biotechnology, 2021, 62, 68-78.	4.4	12
76	Inhibition of lytic polysaccharide monooxygenase by natural plant extracts. New Phytologist, 2021, 232, 1337-1349.	7.3	12
77	Protonation State of an Important Histidine from High Resolution Structures of Lytic Polysaccharide Monooxygenases. Biomolecules, 2022, 12, 194.	4.0	12
78	Crystallization and preliminary X-ray analysis of the major endoglucanase fromThermoascus aurantiacus. Acta Crystallographica Section D: Biological Crystallography, 1997, 53, 599-604.	2.5	11
79	Target highlights from the first postâ€PSI CASP experiment (CASP12, May–August 2016). Proteins: Structure, Function and Bioinformatics, 2018, 86, 27-50.	2.6	11
80	Estimating the accuracy of calculated electron paramagnetic resonance hyperfine couplings for a lytic polysaccharide monooxygenase. Computational and Structural Biotechnology Journal, 2021, 19, 555-567.	4.1	11
81	Kinetics and stereochemistry of theCellulomonas fimil ² -mannanase studied using1H-NMR. Biocatalysis and Biotransformation, 2008, 26, 86-95.	2.0	10
82	Crystallization and preliminary X-ray analysis ofAlicyclobacillus acidocaldariusendoglucanase CelA. Acta Crystallographica Section D: Biological Crystallography, 2003, 59, 139-141.	2.5	9
83	An l-glucitol oxidizing dehydrogenase from Bradyrhizobium japonicum USDA 110 for production of d-sorbose with enzymatic or electrochemical cofactor regeneration. Applied Microbiology and Biotechnology, 2014, 98, 3023-3032.	3.6	9
84	Copper binding and reactivity at the histidine brace motif: insights from mutational analysis of the <i>Pseudomonas fluorescens</i> copper chaperone CopC. FEBS Letters, 2021, 595, 1708-1720.	2.8	9
85	Discovery of $\hat{I}\pm$ -l-arabinopyranosidases from human gut microbiome expands the diversity within glycoside hydrolase family 42. Journal of Biological Chemistry, 2017, 292, 21092-21101.	3.4	8
86	An 1,4-α-Glucosyltransferase Defines a New Maltodextrin Catabolism Scheme in Lactobacillus acidophilus. Applied and Environmental Microbiology, 2020, 86, .	3.1	8
87	Structural characterization of the thermostable <i>Bradyrhizobium japonicum </i> <scp>D</scp> -sorbitol dehydrogenase. Acta Crystallographica Section F, Structural Biology Communications, 2016, 72, 846-852.	0.8	7
88	Structural and Functional Analysis of a Multimodular Hyperthermostable Xylanase-Glucuronoyl Esterase from <i>Caldicellulosiruptor kristjansonii</i> . Biochemistry, 2021, 60, 2206-2220.	2.5	7
89	Characterization of different crystal forms of the α-glucosidase MalA fromSulfolobus solfataricus. Acta Crystallographica Section F: Structural Biology Communications, 2005, 61, 1039-1042.	0.7	6
90	Structure of <i>Aspergillus aculeatus</i> β-1,4-galactanase in complex with galactobiose. Acta Crystallographica Section F, Structural Biology Communications, 2019, 75, 399-404.	0.8	6

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91	Repression of the lysogenic PR promoter in bacteriophage TP901-1 through binding of a CI-MOR complex to a composite OM-OR operator. Scientific Reports, 2020, 10, 8659.	3.3	6
92	Revealing the mechanism of repressor inactivation during switching of a temperate bacteriophage. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 20576-20585.	7.1	6
93	Engineering the substrate binding site of the hyperthermostable archaeal endo-β-1,4-galactanase from Ignisphaera aggregans. Biotechnology for Biofuels, 2021, 14, 183.	6.2	6
94	Anisotropic refinement of the structure ofThermoascus aurantiacusxylanase I. Acta Crystallographica Section D: Biological Crystallography, 2001, 57, 385-392.	2.5	5
95	A Snapshot into the Metabolism of Isomalto-oligosaccharides in Probiotic Bacteria. Journal of Applied Glycoscience (1999), 2013, 60, 95-100.	0.7	5
96	Structural basis of the bacteriophage <scp>TP</scp> 901â€l <scp>CI</scp> repressor dimerization and interaction with <scp>DNA</scp> . FEBS Letters, 2018, 592, 1738-1750.	2.8	5
97	Calmodulin complexes with brain and muscle creatine kinase peptides. Current Research in Structural Biology, 2021, 3, 121-132.	2.2	5
98	Crystallization and preliminary X-ray analysis of maltose O-acetyltransferase. Acta Crystallographica Section D: Biological Crystallography, 2001, 57, 1915-1918.	2.5	4
99	Crystallization and preliminary X-ray characterization of a thermostable pectate lyase fromThermotoga maritima. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 709-711.	2.5	4
100	Further structural studies of the lytic polysaccharide monooxygenase <i>Ao</i> AA13 belonging to the starch-active AA13 family. Amylase, 2019, 3, 41-54.	1.6	4
101	Structure of dimeric, recombinant Sulfolobus solfataricus phosphoribosyl diphosphate synthase: a bent dimer defining the adenine specificity of the substrate ATP. Extremophiles, 2015, 19, 407-415.	2.3	3
102	Expression, refolding and spectroscopic characterization of fibronectin type III (FnIII)-homology domains derived from human fibronectin leucine rich transmembrane protein (FLRT)-1, -2, and -3. PeerJ, 2017, 5, e3550.	2.0	3
103	Flexible linker modulates the binding affinity of the TP901â€4 CI phage repressor to DNA. FEBS Journal, 2022, 289, 1135-1148.	4.7	3
104	Crystallization and preliminary crystallographic analysis of anEscherichia coli-selected mutant of the nuclease domain of the metallonuclease colicin E7. Acta Crystallographica Section F: Structural Biology Communications, 2013, 69, 551-554.	0.7	2
105	Characterization of the genetic switch from phage É,13 important for <i>Staphylococcus aureus</i> colonization in humans. MicrobiologyOpen, 2021, 10, e1245.	3.0	2
106	Guest-protein incorporation into solvent channels of a protein host crystal (hostal). Acta Crystallographica Section D: Structural Biology, 2021, 77, 471-485.	2.3	1
107	Crystal structures of Val58Ile tryptophan repressor in a domain-swapped array in the presence and absence of <scp>L</scp> -tryptophan. Acta Crystallographica Section F, Structural Biology Communications, 2021, 77, 215-225.	0.8	0
108	S3-5 The utilization routes of iso maltooligosaccharides by probiotics : an enzymatic and genetic overview. Bulletin of Applied Glycoscience, 2012, 2, B59.	0.0	0