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555	Retaining glucosyl transfer catalysed by trehalose phosphorylase from Schizophyllum commune: mechanistic evidence obtained from steady-state kinetic studies with substrate analogues and inhibitors. <i>Biochemical Journal</i> , 2001 , 360, 727-736	3.8	16
554	Model systems [Artificial models of protein function. 2001 , 5, 623-625		1
553	Dissection of nucleophilic and acid-base catalysis in glycosidases. 2001 , 5, 643-9		135
552	Catalytic mechanisms and reaction intermediates along the hydrolytic pathway of a plant beta-D-glucan glucohydrolase. 2001 , 9, 1005-16		65
551	Glycoside hydrolases and glycosyltransferases: families and functional modules. 2001 , 11, 593-600		344
550	Atomic motion in enzymatic reaction coordinates. 2001 , 11, 657-65		57
549	Seed chitinases. 2002 , 12, 217-230		37
548	Aspartate 313 in the Streptomyces plicatus hexosaminidase plays a critical role in substrate-assisted catalysis by orienting the 2-acetamido group and stabilizing the transition state. 2002 , 277, 40055-65		108
547	Closed site complexes of adenine phosphoribosyltransferase from Giardia lamblia reveal a mechanism of ribosyl migration. 2002 , 277, 39981-8		31
546	Specific characterization of substrate and inhibitor binding sites of a glycosyl hydrolase family 11 xylanase from Aspergillus niger. 2002 , 277, 44035-43		65
545	Oligosaccharide and sucrose complexes of amylosucrase. Structural implications for the polymerase activity. 2002 , 277, 47741-7		77
544	Biochemistry and comparative genomics of SxxK superfamily acyltransferases offer a clue to the mycobacterial paradox: presence of penicillin-susceptible target proteins versus lack of efficiency of penicillin as therapeutic agent. 2002 , 66, 702-38, table of contents		158
543	High-resolution structures of a chitinase complexed with natural product cyclopentapeptide inhibitors: mimicry of carbohydrate substrate. 2002 , 99, 9127-32		83
542	The cyclic dipeptide CI-4 [cyclo-(l-Arg-d-Pro)] inhibits family 18 chitinases by structural mimicry of a reaction intermediate. <i>Biochemical Journal</i> , 2002 , 368, 23-7	3.8	53
541	Structural enzymology of carbohydrate-active enzymes: implications for the post-genomic era. 2002 , 30, 291-297		54
540	[Foundation of the bases for protein research and its application to the pharmaceutical science field]. 2002 , 122, 537-46		1

(2003-2002)

539	Characterization of soluble and membrane-bound family 3 lytic transglycosylases from Pseudomonas aeruginosa. 2002 , 41, 1001-13	43
538	Mechanism of Thermoanaerobacterium saccharolyticum beta-xylosidase: kinetic studies. 2002 , 41, 9727-35	40
537	A case for reverse protonation: identification of Glu160 as an acid/base catalyst in Thermoanaerobacterium saccharolyticum beta-xylosidase and detailed kinetic analysis of a site-directed mutant. 2002 , 41, 9736-46	47
536	Concerted general acid and nucleophilic catalysis of acetal hydrolysis. A simple model for the lysozyme mechanism. 2002 , 428-432	8
535	Ribosome structure and the mechanism of translation. 2002 , 108, 557-72	617
534	Crystal structure of the autocatalytic initiator of glycogen biosynthesis, glycogenin. 2002 , 319, 463-77	103
533	Combining conformational flexibility and continuum electrostatics for calculating pK(a)s in proteins. 2002 , 83, 1731-48	402
532	Anchimeric assistance in hexosaminidases. 2002 , 80, 1064-1074	20
531	Phylogenetic analysis of invertebrate lysozymes and the evolution of lysozyme function. 2002 , 54, 652-64	171
53C	Substrate recognition by three family 13 yeast alpha-glucosidases. 2002 , 269, 728-34	15
529	Glycosidase mechanisms. 2002 , 6, 619-29	329
528	Catalytic mechanism and product specificity of cyclodextrin glycosyltransferase, a prototypical transglycosylase from the hmylase family. 2002 , 30, 295-304	36
527	Protein engineering 20 years on. 2002 , 3, 964-70	99
526	Insights into trehalose synthesis provided by the structure of the retaining glucosyltransferase OtsA. 2002 , 9, 1337-46	146
525	Calculating pKa values in enzyme active sites. 2003 , 12, 1894-901	130
524	Crystal structure and snapshots along the reaction pathway of a family 51 alpha-L-arabinofuranosidase. 2003 , 22, 4922-32	113
523	A charge-scaling method to treat solvent in QM/MM simulations. 2003, 109, 118-124	34
522	Thermodynamic and extrathermodynamic requirements of enzyme catalysis. 2003 , 105, 559-72	70

521	Spectroscopic studies on poly(ethylene glycol)-lysozyme interactions. 2003 , 260, 175-86	15
520	Detailed kinetic analysis of a family 52 glycoside hydrolase: a beta-xylosidase from Geobacillus stearothermophilus. 2003 , 42, 10528-36	50
519	On the evaluation and optimization of protein X-ray structures for pKa calculations. 2003, 12, 313-26	97
518	Electrostatic guidance of glycosyl cation migration along the reaction coordinate of uracil DNA glycosylase. 2003 , 42, 12455-60	58
517	A snapshot of enzyme catalysis using electrospray ionization mass spectrometry. 2003 , 125, 9938-9	60
516	Pressure-dependent changes in the solution structure of hen egg-white lysozyme. 2003 , 327, 857-65	130
515	Crystal structure of human beta-hexosaminidase B: understanding the molecular basis of Sandhoff and Tay-Sachs disease. 2003 , 327, 1093-109	186
514	Enzymatic transition state poise and transition state analogues. 2003 , 36, 588-96	98
513	Probing Single-Molecule T4 Lysozyme Conformational Dynamics by Intramolecular Fluorescence Energy Transfer. 2003 , 107, 7947-7956	87
512	Broadly distributed chemical reactivity of natural antibodies expressed in coordination with specific antigen binding activity. 2003 , 278, 20436-43	26
511	Crystal structures of allosamidin derivatives in complex with human macrophage chitinase. 2003 , 278, 20110-6	64
510	Discovery, Characterisation and Applications of Enzymes from the Wood-forming Tissues of Poplar: Glycosyl Transferases and Xyloglucan Endotransglycosylases. 2003 , 21, 173-179	3
509	Unusual Role of the 3-OH Group of Oligosaccharide Substrates in the Mechanism of Bacillus 1,3-1,4-Eglucanase. 2003 , 21, 223-231	2
508	Phosphoribosyltransferase mechanisms and roles in nucleic acid metabolism. 2004 , 78, 261-304	34
507	Structure and enzymology of ADP-ribosyl cyclases: conserved enzymes that produce multiple calcium mobilizing metabolites. 2004 , 4, 249-61	98
506	The primary structure of a novel goose-type lysozyme from rhea egg white. 2004 , 68, 159-69	21
505	Crystal structures of a poplar xyloglucan endotransglycosylase reveal details of transglycosylation acceptor binding. 2004 , 16, 874-86	141
504	The donor subsite of trehalose-6-phosphate synthase: binary complexes with UDP-glucose and UDP-2-deoxy-2-fluoro-glucose at 2 A resolution. 2004 , 279, 1950-5	90

(2004-2004)

503	Structural determinants of substrate specificity in family 1 beta-glucosidases: novel insights from the crystal structure of sorghum dhurrinase-1, a plant beta-glucosidase with strict specificity, in complex with its natural substrate. 2004 , 279, 31796-803	107
502	TRAF family proteins link PKR with NF-kappa B activation. 2004 , 24, 4502-12	121
501	Why are pathogenic staphylococci so lysozyme resistant? The peptidoglycan O-acetyltransferase OatA is the major determinant for lysozyme resistance of Staphylococcus aureus. 2005 , 55, 778-87	337
500	Parallel substrate binding sites in a beta-agarase suggest a novel mode of action on double-helical agarose. 2004 , 12, 623-32	59
499	Resuscitation-promoting factors possess a lysozyme-like domain. 2004 , 29, 7-10	57
498	Site-directed mutagenesis establishes aspartic acids-227 and -342 as essential for enzyme activity in an isomalto-dextranase from Arthrobacter globiformis. 2004 , 26, 659-64	3
497	Asparagine and glutamine side-chain conformation in solution and crystal: a comparison for hen egg-white lysozyme using residual dipolar couplings. 2004 , 30, 327-46	20
496	Mutational and computational analysis of the role of conserved residues in the active site of a family 18 chitinase. 2004 , 271, 253-62	152
495	A strategy for functional proteomic analysis of glycosidase activity from cell lysates. 2004 , 43, 5338-42	118
494	A Strategy for Functional Proteomic Analysis of Glycosidase Activity from Cell Lysates. 2004 , 116, 5452-5456	18
493	Determination of enzyme/substrate specificity constants using a multiple substrate ESI-MS assay. 2004 , 15, 233-43	45
492	Molecular modeling insights into the catalytic mechanism of the retaining galactosyltransferase LgtC. 2004 , 339, 1007-14	33
491	Probing the transition states of four glucoside hydrolyses with 13C kinetic isotope effects measured at natural abundance by NMR spectroscopy. 2004 , 126, 3769-76	61
490	Synthesis and high-throughput screening of N-acetyl-beta-hexosaminidase inhibitor libraries targeting osteoarthritis. 2004 , 69, 6273-83	71
489	Structural studies of the beta-glycosidase from Sulfolobus solfataricus in complex with covalently and noncovalently bound inhibitors. 2004 , 43, 6101-9	56
488	Crystal structure of the covalent intermediate of amylosucrase from Neisseria polysaccharea. 2004 , 43, 3104-10	64
487	Cyclic amidine sugars as transition-state analogue inhibitors of glycosidases: potent competitive inhibitors of mannosidases. 2004 , 126, 1971-9	51
486	Activation of crystalline cellulose surfaces through the chemoenzymatic modification of xyloglucan. 2004 , 126, 5715-21	109

485	Hidden localization motifs: naturally occurring peroxisomal targeting signals in non-peroxisomal proteins. 2004 , 5, R97	30
484	Inhibition of membrane-bound lytic transglycosylase B by NAG-thiazoline. 2004 , 574, 73-9	33
483	Crystal structure of beta-D-xylosidase from Thermoanaerobacterium saccharolyticum, a family 39 glycoside hydrolase. 2004 , 335, 155-65	59
482	Synergism between Biophysical Techniques. 2005 , 302-323	
481	Enzymatic properties of native and deglycosylated hybrid aspen (Populus tremulaxtremuloides) xyloglucan endotransglycosylase 16A expressed in Pichia pastoris. <i>Biochemical Journal</i> , 2005 , 390, 105-13.	67
480	The chemistry and biology of mucin-type O-linked glycosylation. 2005 , 13, 5021-34	244
479	The chemical synthesis of 2-deoxy-2-fluorodisaccharide probes of the hen egg white lysozyme mechanism. 2005 , 340, 379-88	14
478	Determination of thioxylo-oligosaccharide binding to family 11 xylanases using electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry and X-ray crystallography. 2005 , 272, 2317-33	26
477	Recent structural insights into the expanding world of carbohydrate-active enzymes. 2005, 15, 637-45	238
476	Dynamic combinatorial chemistry: lysozyme selects an aromatic motif that mimics a carbohydrate residue. 2005 , 44, 965-9	51
475	Dynamic Combinatorial Chemistry: Lysozyme Selects an Aromatic Motif That Mimics a Carbohydrate Residue. 2005 , 117, 987-991	19
474	Turbulent flow chromatography for the reduction of matrix effects in electrospray ionization mass spectrometry-based enzyme assays. 2005 , 28, 1658-65	15
473	Mass spectrometric approaches for the investigation of dynamic processes in condensed phase. 2005 , 24, 30-54	71
472	Antibodies as defensive enzymes. 2005 , 26, 485-503	26
471	Elucidation of the relationship between enzyme activity and internal motion using a lysozyme stabilized by cavity-filling mutations. 2005 , 62, 1047-55	10
470	A theoretical DFT investigation of the lysozyme mechanism: computational evidence for a covalent intermediate pathway. 2005 , 59, 118-30	36
469	Screening for proteolytic activities in snake venom by means of a multiplexing electrospray ionization mass spectrometry assay scheme. 2005 , 19, 2923-8	17
468	. 2005,	71

(2006-2005)

467	O-GlcNAcase uses substrate-assisted catalysis: kinetic analysis and development of highly selective mechanism-inspired inhibitors. 2005 , 280, 25313-22		289
466	Molecular cloning and characterization of three novel lysozyme-like genes, predominantly expressed in the male reproductive system of humans, belonging to the c-type lysozyme/alpha-lactalbumin family. 2005 , 73, 1064-71		42
465	Application of Angle-Selected Electron Nuclear Double Resonance to Characterize Structured Solvent in Small Molecules and Macromolecules. 2005 , 89-144		2
464	Requirements for catalysis in mammalian glycogenin. 2005 , 280, 23892-9		28
463	Assessing protease activity pattern by means of multiple substrate ESI-MS assays. 2005 , 130, 850-4		13
462	Detailed comparative analysis of the catalytic mechanisms of beta-N-acetylglucosaminidases from families 3 and 20 of glycoside hydrolases. 2005 , 44, 12809-18		90
461	Crystal structure of MltA from Escherichia coli reveals a unique lytic transglycosylase fold. 2005 , 352, 1068-80		50
460	Corrigendum to 🗓 Trystal structure of trypsin Durkey egg white inhibitor complex [Biochem. Biophys. Res. Commun. 313 (2004) 8 🖟 6]. 2005 , 333, 283-286		
459	Probing the catalytically essential residues of the alpha-L-fucosidase from the hyperthermophilic archaeon Sulfolobus solfataricus. 2005 , 44, 6331-42		32
458	Enzymatic polymerization to novel polysaccharides having a glucose-N-acetylglucosamine repeating unit, a cellulose-chitin hybrid polysaccharide. <i>Biomacromolecules</i> , 2006 , 7, 1644-56	6.9	57
457	Xyloglucan and xyloglucan endo-transglycosylases (XET): Tools for ex vivo cellulose surface modification. 2006 , 24, 107-120		14
456	Identification of Asp174 and Asp175 as the key catalytic residues of human O-GlcNAcase by functional analysis of site-directed mutants. 2006 , 45, 3835-44		100
455	Mechanism-based profiling of enzyme families. <i>Chemical Reviews</i> , 2006 , 106, 3279-301	68.1	490
454	Toward a detailed understanding of base excision repair enzymes: transition state and mechanistic analyses of N-glycoside hydrolysis and N-glycoside transfer. <i>Chemical Reviews</i> , 2006 , 106, 506-55	68.1	220
453	Structural snapshots of beta-1,4-galactosyltransferase-I along the kinetic pathway. 2006 , 357, 1619-33		57
452	Crystal structures of the lytic transglycosylase MltA from N.gonorrhoeae and E.coli: insights into interdomain movements and substrate binding. 2006 , 359, 122-36		24
451	Testing electrostatic complementarity in enzyme catalysis: hydrogen bonding in the ketosteroid isomerase oxyanion hole. 2006 , 4, e99		110
450	Characterization of a beta-N-acetylhexosaminidase and a beta-N-acetylglucosaminidase/beta-glucosidase from Cellulomonas fimi. 2006 , 273, 2929-41		54

449	Properties of the endolytic transglycosylase encoded by gene 144 of Pseudomonas aeruginosa bacteriophage phiKZ. 2006 , 71, 300-5	22
448	Structure and mechanism of a bacterial beta-glucosaminidase having O-GlcNAcase activity. 2006 , 13, 365-71	164
447	Investigations into the role of oxacarbenium ions in glycosylation reactions by ab initio molecular dynamics. 2006 , 341, 2912-20	38
446	Polymeric hydrophobic membranes as a tool to control polymorphism and protein []gand interactions. 2006 , 283, 123-132	19
445	Transferase and hydrolytic activities of the laminarinase from Rhodothermus marinus and its M133A, M133C, and M133W mutants. 2006 , 23, 501-11	8
444	Bacterial resuscitation factors: revival of viable but non-culturable bacteria. 2006 , 63, 2555-9	36
443	Substrate distortion by a lichenase highlights the different conformational itineraries harnessed by related glycoside hydrolases. 2006 , 45, 5136-40	39
442	Substrate Distortion by a Lichenase Highlights the Different Conformational Itineraries Harnessed by Related Glycoside Hydrolases. 2006 , 118, 5260-5264	1
441	Construction of enzyme-substrate complexes between hen egg-white lysozyme and N-acetyl-D-glucosamine hexamer by systematic conformational search and molecular dynamics simulation. 2006 , 140, 221-7	3
440	Experimental verification of the crucial roles of Glu73 in the catalytic activity and structural stability of goose type lysozyme. 2006 , 140, 75-85	25
439	Insights into the serine protease mechanism from atomic resolution structures of trypsin reaction intermediates. 2006 , 103, 6835-40	99
438	Functional proteomic profiling of glycan-processing enzymes. 2006 , 415, 253-68	4
437	Structural evidence for the evolution of xyloglucanase activity from xyloglucan endo-transglycosylases: biological implications for cell wall metabolism. 2007 , 19, 1947-63	178
436	Investigation of Catalysis by Acids, Bases, Other Small Molecules and Enzymes. 2007 , 293-323	
435	Synthesis and Properties of Surfactants derived from N-Acetyl-D-Glucosamine. 2007 , 26, 395-409	4
434	Glycosidases: Functions, Families and Folds. 2007 ,	2
433	Crystal structure of Tapes japonica Lysozyme with substrate analogue: structural basis of the catalytic mechanism and manifestation of its chitinase activity accompanied by quaternary structural change. 2007 , 282, 27459-27467	53
432	Convergent chemical synthesis and high-resolution x-ray structure of human lysozyme. 2007 , 104, 4846-51	148

(2008-2007)

431	The crystal structure of a lysozyme c from housefly Musca domestica, the first structure of a digestive lysozyme. 2007 , 160, 83-92	19
430	Crystal structures of Paenibacillus polymyxa beta-glucosidase B complexes reveal the molecular basis of substrate specificity and give new insights into the catalytic machinery of family I glycosidases. 2007 , 371, 1204-18	89
429	Aptamer-based biosensors for label-free voltammetric detection of lysozyme. 2007 , 79, 5158-64	230
428	Recognition of solvent exposed protein surfaces using anthracene derived receptors. 2007 , 5, 276-85	32
427	Structural basis for cyclophellitol inhibition of a beta-glucosidase. 2007 , 5, 444-6	38
426	Analysis of PUGNAc and NAG-thiazoline as transition state analogues for human O-GlcNAcase: mechanistic and structural insights into inhibitor selectivity and transition state poise. 2007 , 129, 635-44	142
425	Substrate flexibility of vicenisaminyltransferase VinC involved in the biosynthesis of vicenistatin. 2007 , 129, 5102-7	40
424	Catalytically Inactive Endoglycosidases as Microbial Diagnostic Reagents: Chitinases and Lysozymes as Fungal and Bacterial Capture/Label Agents. 2007 , 373-384	1
423	SAFCHIA IS A NEW CLASS OF DEFENCE CHITINASE FROM SAFFRON (CROCUS SATIVUS L.). 2007 , 195-202	3
422	From egg to crystal: A practical on purification, characterization, and crystallization of lysozyme for bachelor students. 2007 , 35, 280-6	7
421	Determination of steady-state kinetic parameters for a xylanase-catalyzed hydrolysis of neutral underivatized xylooligosaccharides by mass spectrometry. 2007 , 365, 165-73	8
420	Variation in relative substrate specificity of bifunctional beta-D-xylosidase/alpha-L-arabinofuranosidase by single-site mutations: roles of substrate distortion and recognition. 2007 , 1774, 1192-8	25
419	OMP decarboxylaseAn enigma persists. <i>Bioorganic Chemistry</i> , 2007 , 35, 465-9 5.1	27
418	Chitin and Chitosan. 2007 , 449-475	14
417	Biochemical analysis of Thermotoga maritima GH36 alpha-galactosidase (TmGalA) confirms the mechanistic commonality of clan GH-D glycoside hydrolases. 2007 , 46, 3319-30	78
416	Sequence characterization of an unusual lysozyme gene expressed in the intestinal tract of the reduviid bug Triatoma infestans (Insecta). 2008 , 102, 229-32	18
4 ¹ 5	N-acetylmuramic acid 6-phosphate lyases (MurNAc etherases): role in cell wall metabolism, distribution, structure, and mechanism. 2008 , 65, 928-39	30
414	The alpha-L-fucosidase from Sulfolobus solfataricus. 2008 , 12, 61-8	11

413	Acidic range titration of HEWL using a constant-pH molecular dynamics method. 2008, 72, 289-98	66
412	Mechanistic studies on the formation of glycosidase-substrate and glycosidase-inhibitor covalent intermediates. 2008 , 29, 2565-74	35
411	Nucleophilic Additions to Cyclic Nitrones en Route to Iminocyclitols Total Syntheses of DMDP, 6-deoxy-DMDP, DAB-1, CYB-3, Nectrisine, and Radicamine B. 2008 , 2008, 2929-2947	114
410	Mechanistic insights into glycosidase chemistry. 2008 , 12, 539-55	328
409	Crystal structures of Melanocarpus albomyces cellobiohydrolase Cel7B in complex with cello-oligomers show high flexibility in the substrate binding. 2008 , 17, 1383-94	43
408	C-terminus of TRAP in Staphylococcus can enhance the activity of lysozyme and lysostaphin. 2008 , 40, 452-8	4
407	Structural variation in the glycan strands of bacterial peptidoglycan. 2008 , 32, 287-306	263
406	Structures of the human orotidine-5'-monophosphate decarboxylase support a covalent mechanism and provide a framework for drug design. 2008 , 16, 82-92	41
405	Sorting the diverse: the sequence-based classifications of carbohydrate-active enzymes. Biochemical Journal, 2008, 382	19
404	Catalytic reaction mechanism of goose egg-white lysozyme by molecular modelling of enzyme-substrate complex. 2008 , 144, 753-61	17
403	QM/MM simulations predict a covalent intermediate in the hen egg white lysozyme reaction with its natural substrate. 2008 , 4425-7	62
402	Conformational changes and reaction of clostridial glycosylating toxins. 2008, 377, 1346-56	53
401	Glycosyltransferases: structures, functions, and mechanisms. 2008 , 77, 521-55	1240
400	Biochemistry. How enzymes work. 2008, 320, 1428-9	167
399	Synthesis and use of mechanism-based protein-profiling probes for retaining beta-D-glucosaminidases facilitate identification of Pseudomonas aeruginosa NagZ. 2008 , 130, 327-35	78
398	Synthesis and testing of 2-deoxy-2,2-dihaloglycosides as mechanism-based inhibitors of alpha-glycosidases. 2008 , 73, 3070-7	25
397	Covalent inhibitors of glycosidases and their applications in biochemistry and biology. 2008 , 18, 570-86	148
396	Mechanism-based labeling defines the free energy change for formation of the covalent glycosyl-enzyme intermediate in a xyloglucan endo-transglycosylase. 2008 , 283, 21864-72	18

(2009-2008)

395	Structural and enzymatic analysis of MshA from Corynebacterium glutamicum: substrate-assisted catalysis. 2008 , 283, 15834-44	93
394	The role of Arg114 at subsites E and F in reactions catalyzed by hen egg-white lysozyme. 2008 , 72, 823-32	7
393	Cloning, purification and comparative characterization of two digestive lysozymes from Musca domestica larvae. 2008 , 41, 969-77	20
392	Reaction kinetics. 281-325	
391	???????????????????????????????????????	1
390	Enzymatic Cleavage of Glycosides: Mechanism, Inhibition and Synthetic Applications. 2009 , 253-284	2
389	Crystallographic snapshots of an entire reaction cycle for a retaining xylanase from Streptomyces olivaceoviridis E-86. 2009 , 146, 61-70	15
388	Characterization of an i-type lysozyme gene from the sea cucumber Stichopus japonicus, and enzymatic and nonenzymatic antimicrobial activities of its recombinant protein. 2009 , 107, 583-8	53
387	Allerlei vom Frfistfiksei. Eine Oologisch-chemische Osterbetrachtung. 2009 , 43, 100-114	5
386	Crystal structures of g-type lysozyme from Atlantic cod shed new light on substrate binding and the catalytic mechanism. 2009 , 66, 2585-98	42
385	Enzymatic transition states and dynamic motion in barrier crossing. 2009, 5, 551-8	204
384	Accessory active site residues of Streptomyces sp. N174 chitosanase: variations on a common theme in the lysozyme superfamily. 2009 , 276, 857-69	27
383	Cyclononitols: a flexible synthetic approach towards nine-membered carbasugar analogues. 2009 , 50, 4519-4522	8
382	Isolation of a new fungi and wound-induced chitinase class in corms of Crocus sativus. 2009 , 47, 426-34	26
381	Structures and mechanisms of the mycothiol biosynthetic enzymes. 2009 , 13, 451-9	40
380	Biomacromolecular affinity: interactions between lysozyme and regioselectively sulfated chitosan. 2009 , 73, 346-50	25
379	Characterization of a highly efficient heterodimeric xylosidase from Humicola insolens. 2009, 45, 436-442	12
378	Diastereocontrolled electrophilic fluorinations of 2-deoxyribonolactone: syntheses of all corresponding 2-deoxy-2-fluorolactones and 2'-deoxy-2'-fluoro-NAD+s. 2009 , 74, 5779-89	24

377	Directed "in situ" inhibitor elongation as a strategy to structurally characterize the covalent glycosyl-enzyme intermediate of human pancreatic alpha-amylase. 2009 , 48, 10752-64	26
376	Mechanism of cellulose hydrolysis by inverting GH8 endoglucanases: a QM/MM metadynamics study. 2009 , 113, 7331-9	87
375	Lysozyme. 2009 ,	2
374	Conjugated polyelectrolyte-sensitized fluorescent detection of thrombin in blood serum using aptamer-immobilized silica nanoparticles as the platform. 2009 , 25, 12787-93	96
373	Catalytic reaction mechanism based on alpha-secondary deuterium isotope effects in hydrolysis of trehalose by European honeybee trehalase. 2009 , 73, 2466-73	18
372	Importance of the hydrogen bonding network including Asp52 for catalysis, as revealed by Asn59 mutant hen egg-white lysozymes. 2009 , 146, 651-7	16
371	Enzymatic deconstruction of xylan for biofuel production. 2009 , 1, 2-17	234
370	Examples of Structure-Function Relationships in Enzymatic Systems. 2009 , 451-542	
369	The Chitopentaose Complex of a Mutant Hen Egg-White Lysozyme Displays No Distortion of the 1 Sugar Away from a 4C1 Chair Conformation. 2009 , 62, 528	3
368	Mechanism, Structure, and Inhibition of O-GlcNAc Processing Enzymes. 2010 , 5, 74-91	43
367	Molecular Probes for Protein Glycosylation. 2010 , 261-296	
366	Carbohydrases. 2010,	1
365	??????????. 2010 , 48, 571-576	1
364	beta-D-Xylosidase from Selenomonas ruminantium: role of glutamate 186 in catalysis revealed by site-directed mutagenesis, alternate substrates, and active-site inhibitor. <i>Applied Biochemistry and Biotechnology</i> , 2010 , 161, 395-410	8
363	Lysozymes in the animal kingdom. 2010 , 35, 127-60	476
362	Complete amino acid sequence of three reptile lysozymes. 2010 , 151, 75-83	3
361	Purine nucleoside phosphorylases as targets for transition-state analog design. 215-247	1
360	Crystal structures of Bacillus cereus NCTU2 chitinase complexes with chitooligomers reveal novel substrate binding for catalysis: a chitinase without chitin binding and insertion domains. 2010 , 285, 31603-15	40

359	Catalytic mechanism of human alpha-galactosidase. 2010 , 285, 3625-3632	89
358	Structural and kinetic analysis of Bacillus subtilis N-acetylglucosaminidase reveals a unique Asp-His dyad mechanism. 2010 , 285, 35675-84	92
357	1,2,3-Tri-O-acetyl-5-de-oxy-d-ribofuran-ose. 2010 , 66, o3107	1
356	Distribution of lysosome-associated membrane proteins-1 and -2, and cathepsin D in eosinophilic granular bodies: possible relationship to cyst development in pilocytic astrocytomas. 2010 , 38, 1354-64	9
355	Structure and reaction mechanism of human nicotinamide phosphoribosyltransferase. 2010 , 147, 95-107	24
354	Structure and function of enzymes acting on chitin and chitosan. 2010 , 27, 331-66	114
353	Enzymes that catalyse SN2 reaction mechanisms. 2010 , 27, 900-18	41
352	Computational simulation of the lifetime of the methoxymethyl cation in water. A simple model for a glycosyl cation: when is an intermediate an intermediate?. 2010 , 114, 5769-74	11
351	Anionic conjugated polymer with aptamer-functionalized silica nanoparticle for label-free naked-eye detection of lysozyme in protein mixtures. 2010 , 26, 10025-30	57
350	The analysis of enzymic free energy relationships using kinetic and computational models. 2010 , 39, 2272-301	18
349	Fluorosugars: synthesis of the 2,3,4-trideoxy-2,3,4-trifluoro hexose analogues of D-glucose and D-altrose and assessment of their erythrocyte transmembrane transport. 2010 , 46, 5434-6	41
348	Computational enzymology. 2010 , 46, 2354-72	90
347	Mechanisms of Enzymatic Glycosyl Transfer. 2010 , 385-422	8
346	Coupling Constant pH Molecular Dynamics with Accelerated Molecular Dynamics. 2010 , 6, 560-568	76
345	Production of chitooligosaccharides and their potential applications in medicine. 2010 , 8, 1482-517	431
344	References. 2010 , 807-843	
343	Investigations of enzyme-catalysed reactions with combined quantum mechanics/molecular mechanics (QM/MM) methods. 2010 , 29, 65-133	89
342	A demonstration of the inhomogeneity of the local dielectric response of proteins by molecular dynamics simulations. 2010 , 132, 235103	30

341	Free energy study of the catalytic mechanism of Trypanosoma cruzi trans-sialidase. From the Michaelis complex to the covalent intermediate. 2011 , 50, 10150-8	35
340	Metal-free and pH-controlled introduction of azides in proteins. 2011 , 2, 701	60
339	Self-assembly of trehalose molecules on a lysozyme surface: the broken glass hypothesis. 2011 , 13, 2294-9	45
338	Isotope-edited FTIR of alkaline phosphatase resolves paradoxical ligand binding properties and suggests a role for ground-state destabilization. 2011 , 133, 11621-31	22
337	Structural and functional analyses of a glycoside hydrolase family 5 enzyme with an unexpected Fucosidase activity. 2011 , 50, 3369-75	7
336	Quantum mechanics/molecular mechanics modeling of substrate-assisted catalysis in family 18 chitinases: conformational changes and the role of Asp142 in catalysis in ChiB. 2011 , 50, 4697-711	49
335	Molecular dynamics simulations of a branched tetradecasaccharide substrate in the active site of a xyloglucan endo-transglycosylase. 2011 , 37, 1001-1013	9
334	Celebrating structural biology. 2011 , 18, 1304-16	8
333	Structural, mechanistic, and computational analysis of the effects of anomeric fluorines on anomeric fluoride departure in 5-fluoroxylosyl fluorides. 2011 , 133, 15826-9	20
332	A spectral deciphering of the binding interaction of an intramolecular charge transfer fluorescence probe with a cationic protein: thermodynamic analysis of the binding phenomenon combined with blind docking study. 2011 , 10, 980-91	88
331	Bioorthogonal chemistry: applications in activity-based protein profiling. 2011 , 44, 718-29	92
330	Proton transfer facilitated by ligand binding. An energetic analysis of the catalytic mechanism of Trypanosoma cruzi trans-sialidase. 2011 , 50, 836-42	32
329	Molecular characterization of a mollusk chicken-type lysozyme gene from Haliotis discus hannai Ino, and the antimicrobial activity of its recombinant protein. 2011 , 30, 163-72	33
328	The g-type lysozyme of Scophthalmus maximus has a broad substrate spectrum and is involved in the immune response against bacterial infection. 2011 , 30, 630-7	33
327	Opposing influences by subsite -1 and subsite +1 residues on relative xylopyranosidase/arabinofuranosidase activities of bifunctional D-xylosidase/L-arabinofuranosidase. 2011 , 1814, 1648-57	8
326	Bioconjugation via azide-Staudinger ligation: an overview. 2011 , 40, 4840-71	232
325	Ligand bound structures of a glycosyl hydrolase family 30 glucuronoxylan xylanohydrolase. 2011 , 407, 92-109	62
324	Effector glycosyltransferases in legionella. 2011 , 2, 76	18

323	The chemical nature of enzyme catalysis. 2011 , 189-221	1
322	Contribution of C-H Iπ Interactions to the Affinity and Specificity of Carbohydrate Binding Sites. 2011 , 8, 222-228	9
321	Functional analysis of hyperthermophilic endocellulase from Pyrococcus horikoshii by crystallographic snapshots. <i>Biochemical Journal</i> , 2011 , 437, 223-30	27
320	Mechanistic evidence for a front-side, SNi-type reaction in a retaining glycosyltransferase. 2011 , 7, 631-8	117
319	Enzymatic glycosyl transfer: mechanisms and applications. 2011 , 29, 1-18	58
318	On the information expressed in enzyme structure: more lessons from ribonuclease A. 2011 , 15, 769-79	4
317	Multi-biocatalytic properties of layerby-layer assembled lysozyme/catalase multilayers. 2011, 19, 635-638	4
316	Activity-based profiling of retaining Eglucosidases: a comparative study. 2011 , 12, 1263-9	29
315	The conformation of tetrafluorinated methyl galactoside anomers: crystallographic and NMR studies. 2011 , 346, 1129-39	28
314	Protein dynamics and enzyme catalysis: insights from simulations. 2011 , 1814, 1077-92	62
313	Temperature dependence of lysozyme hydration and the role of elastic energy. 2011 , 83, 031924	7
312	Amino acid sequence of Egyptian goose egg-white lysozyme and effects of amino acid substitution on the enzymatic activity. 2012 , 76, 691-8	3
311	Structural and mechanistic studies of pesticin, a bacterial homolog of phage lysozymes. 2012 , 287, 23381-96	39
310	Excision of thymine and 5-hydroxymethyluracil by the MBD4 DNA glycosylase domain: structural basis and implications for active DNA demethylation. 2012 , 40, 8276-84	77
309	Structural snapshots of the reaction coordinate for O-GlcNAc transferase. 2012 , 8, 966-8	104
308	Combining weak affinity chromatography, NMR spectroscopy and molecular simulations in carbohydrate-lysozyme interaction studies. 2012 , 10, 3019-32	10
307	Enhancing Conformation and Protonation State Sampling of Hen Egg White Lysozyme Using pH Replica Exchange Molecular Dynamics. 2012 , 8, 4393-404	71
306	Enzyme-catalyzed direct three-component aza-Diels-Alder reaction using hen egg white lysozyme. 2012 , 77, 200-7	34

305	Active site plasticity within the glycoside hydrolase NagZ underlies a dynamic mechanism of substrate distortion. 2012 , 19, 1471-82		58
304	Novel structural features of xylanase A1 from Paenibacillus sp. JDR-2. 2012 , 180, 303-11		9
303	Multidimensional free energy volumes offer unique insights into reaction mechanisms, molecular conformation and association. 2012 , 14, 9026-36		9
302	Development of inhibitors as research tools for carbohydrate-processing enzymes. 2012 , 40, 913-28		13
301	A historical perspective for the catalytic reaction mechanism of glycosidase; so as to bring about breakthrough in confusing situation. 2012 , 76, 215-31		15
300	Biochemical characterization of a novel cycloisomaltooligosaccharide glucanotransferase from Paenibacillus sp. 598K. 2012 , 1824, 919-24		19
299	Shrimp invertebrate lysozyme i-lyz: gene structure, molecular model and response of c and i lysozymes to lipopolysaccharide (LPS). 2012 , 32, 230-6		23
298	Molecular cloning and characterization of c-type lysozyme gene in orange-spotted grouper, Epinephelus coioides. 2012 , 33, 186-96		51
297	Rapid calculation of protein pKa values using Rosetta. 2012 , 103, 587-595		51
296	Conformational analyses of the reaction coordinate of glycosidases. 2012 , 45, 308-16		184
296 295	Conformational analyses of the reaction coordinate of glycosidases. 2012, 45, 308-16 The crystallization and structural analysis of cellulases (and other glycoside hydrolases): strategies and tactics. 2012, 510, 141-68		184
	The crystallization and structural analysis of cellulases (and other glycoside hydrolases): strategies	3.7	
295	The crystallization and structural analysis of cellulases (and other glycoside hydrolases): strategies and tactics. 2012 , 510, 141-68 pKa modulation of the acid/base catalyst within GH32 and GH68: a role in substrate/inhibitor	3.7	13
295 294	The crystallization and structural analysis of cellulases (and other glycoside hydrolases): strategies and tactics. 2012 , 510, 141-68 pKa modulation of the acid/base catalyst within GH32 and GH68: a role in substrate/inhibitor specificity?. <i>PLoS ONE</i> , 2012 , 7, e37453 Analysis of the native structure, stability and aggregation of biotinylated human lysozyme. <i>PLoS</i>		13
295294293	The crystallization and structural analysis of cellulases (and other glycoside hydrolases): strategies and tactics. 2012, 510, 141-68 pKa modulation of the acid/base catalyst within GH32 and GH68: a role in substrate/inhibitor specificity?. <i>PLoS ONE</i> , 2012, 7, e37453 Analysis of the native structure, stability and aggregation of biotinylated human lysozyme. <i>PLoS ONE</i> , 2012, 7, e50192 The dynamical response of hen egg white lysozyme to the binding of a carbohydrate ligand. 2012,		13 16 20
295294293292	The crystallization and structural analysis of cellulases (and other glycoside hydrolases): strategies and tactics. 2012, 510, 141-68 pKa modulation of the acid/base catalyst within GH32 and GH68: a role in substrate/inhibitor specificity?. PLoS ONE, 2012, 7, e37453 Analysis of the native structure, stability and aggregation of biotinylated human lysozyme. PLoS ONE, 2012, 7, e50192 The dynamical response of hen egg white lysozyme to the binding of a carbohydrate ligand. 2012, 21, 1066-73 Probing the structure of lysozyme-carbon-nanotube hybrids with molecular dynamics. Chemistry - A	3.7	13 16 20 24
295 294 293 292 291	The crystallization and structural analysis of cellulases (and other glycoside hydrolases): strategies and tactics. 2012, 510, 141-68 pKa modulation of the acid/base catalyst within GH32 and GH68: a role in substrate/inhibitor specificity?. PLoS ONE, 2012, 7, e37453 Analysis of the native structure, stability and aggregation of biotinylated human lysozyme. PLoS ONE, 2012, 7, e50192 The dynamical response of hen egg white lysozyme to the binding of a carbohydrate ligand. 2012, 21, 1066-73 Probing the structure of lysozyme-carbon-nanotube hybrids with molecular dynamics. Chemistry - A European Journal, 2012, 18, 4308-13 Biosorption behaviors of natural polymer microfibers synthesized by using cellulase-based enzyme	3.7	13 16 20 24

(2013-2012)

287	Engineering chitinases for the synthesis of chitin oligosaccharides: Catalytic amino acid mutations convert the GH-18 family glycoside hydrolases into transglycosylases. 2012 , 74, 89-96	36
286	Potential of mean force of water-proton bath and molecular dynamic simulation of proteins at constant pH. 2012 , 33, 832-42	14
285	Toward ab initio refinement of protein X-ray crystal structures: interpreting and correlating structural fluctuations. 2012 , 131, 1	7
284	Structural basis of bacterial defense against g-type lysozyme-based innate immunity. 2013 , 70, 1113-22	25
283	Lysozyme detection on aptamer functionalized graphene-coated SPR interfaces. 2013, 50, 239-43	110
282	Identifying critical unrecognized sugar-protein interactions in GH10 xylanases from Geobacillus stearothermophilus using STD NMR. 2013 , 280, 4652-65	7
281	Molecular cloning, genomic structure, and tissue distribution of EW135, a novel chicken egg white protein with group B scavenger receptor cysteine-rich domains. 2013 , 65, 785-93	
280	The effect of concentration, temperature and stirring on hen egg white lysozyme amyloid formation. 2013 , 9, 9692-701	55
279	The chitinolytic machinery of Serratia marcescensa model system for enzymatic degradation of recalcitrant polysaccharides. 2013 , 280, 3028-49	201
278	Insights into mucopolysaccharidosis I from the structure and action of ⊞-iduronidase. 2013 , 9, 739-45	40
277	Substrate distortion contributes to the catalysis of orotidine 5'-monophosphate decarboxylase. 2013 , 135, 17432-43	21
276	Characterization of a c-type lysozyme of Scophthalmus maximus: expression, activity, and antibacterial effect. 2013 , 34, 46-54	43
275	Computational enzymology. 2013 , 924, 67-89	11
274	Binding structures of tri-N-acetyl-Eglucosamine in hen egg white lysozyme using molecular dynamics with a polarizable force field. 2013 , 34, 163-74	16
273	Coarse-graining of proteins based on elastic network models. 2013 , 422, 165-174	22
272	Combined Lewis acid and Brfisted acid-mediated reactivity of glycosyl trichloroacetimidate donors. 2013 , 382, 36-42	19
271	Antimicrobial Peptides: Their History, Evolution, and Functional Promiscuity. 2013, 1-37	19
270	Engineering Escherichia coli for soluble expression and single step purification of active human lysozyme. 2013 , 164, 1-8	21

269 Encyclopedia of Biophysics. **2013**, 1236-1236

268	A surprising role for conformational entropy in protein function. 2013 , 337, 69-94		26
267	Combined quantum mechanics/molecular mechanics (QM/MM) methods in computational enzymology. 2013 , 52, 2708-28		388
266	Encyclopedia of Biophysics. 2013 , 1286-1286		
	Chemoselective esterification of hydroxyacids catalyzed by salicylaldehyde through induced intramolecularity. 2013 , 3, 1976-1986		10
	Spectroscopic determination of lysozyme conformational changes in the presence of trehalose and guanidine. 2013 , 66, 297-307		5
	Carbohydrate recognition by RpfB from Mycobacterium tuberculosis unveiled by crystallographic and molecular dynamics analyses. 2013 , 104, 2530-9		28
262	Encyclopedia of Biophysics. 2013 , 1225-1225		
	Facile and direct synthesis of long-chain chitin from chitobiose via proton-assisted nonaqueous biocatalysis. 2013 , 87, 69-74		
260	Encyclopedia of Biophysics. 2013 , 1249-1250		O
	A novel fluorescence assay and catalytic properties of Crh1 and Crh2 yeast cell wall transglycosylases. <i>Biochemical Journal</i> , 2013 , 455, 307-18	3.8	17
	Egg white coagulum: a precisely tailorable membrane for biomimetic multilevel structured nanomaterials. 2013 , 3, 1464		2
	Structural snapshots illustrate the catalytic cycle of Egalactocerebrosidase, the defective enzyme in Krabbe disease. 2013 , 110, 20479-84		30
256	Encyclopedia of Biophysics. 2013 , 1226-1233		
	Lysozyme-encapsulated gold nanocluster-based affinity mass spectrometry for pathogenic bacteria. 2013 , 27, 2143-8		25
⊃ ⊏ <i>1</i>	A novel transition-state analogue for lysozyme, 4-O-Etri-N-acetylchitotriosyl moranoline, provided evidence supporting the covalent glycosyl-enzyme intermediate. 2013 , 288, 6072-82		21
	Structure and function studies on enzymes with a catalytic carboxyl group(s): from ribonuclease T1 to carboxyl peptidases. 2013 , 89, 201-25		3
	Graphical Processing Unit accelerated Poisson equation solver and its application for calculation of single ion potential in ion-channels. 2013 , 1, 151-163		1

(2014-2013)

251	Isolation and Characterization of a Novel Chicken Egg White Protein with Scavenger Receptor Cysteine-rich Domains. 2013 , 50, 159-163	4
250	Analysis of two lysozyme genes and antimicrobial functions of their recombinant proteins in Asian seabass. <i>PLoS ONE</i> , 2013 , 8, e79743	38
249	. 2014,	1
248	Third party annotation gene data set of eutherian lysozyme genes. 2014 , 2, 258-60	4
247	The active site of hen egg-white lysozyme: flexibility and chemical bonding. 2014 , 70, 1136-46	24
246	Marvels of enzyme catalysis at true atomic resolution: distortions, bond elongations, hidden flips, protonation states and atom identities. 2014 , 29, 122-33	24
245	Glycosidases: Functions, Families and Folds. 2014 ,	11
244	Weak protein-cationic co-ion interactions addressed by X-ray crystallography and mass spectrometry. 2014 , 70, 2217-31	6
243	Cloning and immune characterization of the c-type lysozyme gene in red-spotted grouper, Epinephelus akaara. 2014 , 36, 305-14	17
242	Kinetic study of a hen-egg white lysozyme-based oenological preparation. 2014 , 23, 151-155	7
241	Modified lysozymes as novel broad spectrum natural antimicrobial agents in foods. 2014 , 79, R1077-90	41
240	Cu(II) conjugation along the transformation of a vitamin K3 derivative to a dinaphthoquinone methide radical. 2014 , 38, 277-284	
239	Regenerative glycosylation under nucleophilic catalysis. 2014 , 136, 921-3	40
238	Binding of the iminium and alkanolamine forms of sanguinarine to lysozyme: spectroscopic analysis, thermodynamics, and molecular modeling studies. 2014 , 118, 13077-91	50
237	Lysozyme in Wine: An Overview of Current and Future Applications. 2014 , 13, 1062-1073	55
236	Structural studies suggest a peptidoglycan hydrolase function for the Mycobacterium tuberculosis Tat-secreted protein Rv2525c. 2014 , 188, 156-64	6
235	Ni(II)-Schiff base complex as an enzyme inhibitor of hen egg white lysozyme: a crystallographic and spectroscopic study. 2014 , 6, 1737-47	4
234	pKa cycling of the general acid/base in glycoside hydrolase families 33 and 34. 2014 , 16, 5785-92	10

233	From covalent glycosidase inhibitors to activity-based glycosidase probes. <i>Chemistry - A European Journal</i> , 2014 , 20, 10864-72	4.8	37
232	Challenges in computational studies of enzyme structure, function and dynamics. 2014 , 54, 62-79		40
231	The mechanism of cellulose hydrolysis by a two-step, retaining cellobiohydrolase elucidated by structural and transition path sampling studies. 2014 , 136, 321-9		134
230	Rational Design of Activity-Based Retaining Exoglucosidase Probes. 2014 , 191-206		
229	Diamond nanogel-embedded contact lenses mediate lysozyme-dependent therapeutic release. 2014 , 8, 2998-3005		151
228	QM/MM free-energy simulations of reaction in Serratia marcescens Chitinase B reveal the protonation state of Asp142 and the critical role of Tyr214. 2014 , 118, 4771-83		32
227	Evaluation of the efficiency of enological procedures on lysozyme depletion in wine by an indirect ELISA method. 2014 , 62, 6247-53		14
226	Catalytic mechanism of L,D-transpeptidase 2 from Mycobacterium tuberculosis described by a computational approach: insights for the design of new antibiotics drugs. 2014 , 54, 2402-10		22
225	Exploring functional cyclophellitol analogues as human retaining beta-glucosidase inhibitors. 2014 , 12, 7786-91		20
224	Control of scaffold degradation in tissue engineering: a review. 2014 , 20, 492-502		129
223	Production of LYZL6, a novel human c-type lysozyme, in recombinant Pichia pastoris employing high cell density fed-batch fermentation. 2014 , 118, 420-5		14
222	FTIR, ESI-MS, VT-NMR and SANS study of trehalose thermal stabilization of lysozyme. 2014 , 63, 225-32		18
221	Non-covalent conjugation of CdTe QDs with lysozyme binding DNA for fluorescent sensing of lysozyme in complex biological sample. 2014 , 129, 86-92		20
220	Interaction of di-N-acetylchitobiosyl moranoline with a family GH19 chitinase from moss, Bryum coronatum. 2014 , 24, 945-55		2
219	Comparing Cyclophellitol N-Alkyl and N-Acyl Cyclophellitol Aziridines as Activity-Based Glycosidase Probes. <i>Chemistry - A European Journal</i> , 2015 , 21, 10861-9	4.8	19
218	Synthesis and characterization of novel carboxymethyl chitosan grafted polylactide hydrogels for controlled drug delivery. 2015 , 26, 924-931		18
217	Reaction Mechanisms in Carbohydrate-Active Enzymes: Glycoside Hydrolases and Glycosyltransferases. Insights from ab Initio Quantum Mechanics/Molecular Mechanics Dynamic Simulations. 2015 , 137, 7528-47		145
216	Low Abundant N-linked Glycosylation in Hen Egg White Lysozyme Is Localized at Nonconsensus Sites. 2015 , 14, 2633-41		16

215 A simplified electrostatic model for hydrolase catalysis. **2015**, 78, 257-65

214	Isolation, characterization, kinetics, and enzymatic and nonenzymatic microbicidal activities of a novel c-type lysozyme from plasma of Schistocerca gregaria (Orthoptera: Acrididae). 2015 , 15,		21
213	Structural and functional analysis of yeast Crh1 and Crh2 transglycosylases. 2015, 282, 715-31		21
212	Differential profiles of gastrointestinal proteins interacting with peptidoglycans from Lactobacillus plantarum and Staphylococcus aureus. 2015 , 65, 77-85		14
211	A QM/MM free energy study of the oxidation mechanism of dihydroorotate dehydrogenase (class 1A) from Lactococcus lactis. 2015 , 119, 1468-73		8
210	Asp48 function in the hydrogen-bonding network involving Asp52 of hen egg-white lysozyme. 2015 , 79, 196-204		5
209	Stereoselective Synthesis of Boat-Locked Glycosides Designed as Glycosyl Hydrolase Conformational Probes. 2015 , 2015, 1472-1484		5
208	Fungal cellulases. <i>Chemical Reviews</i> , 2015 , 115, 1308-448	68.1	513
207	Peptidoglycan. 2015 , 105-124		2
206	Molecular characterization and expression pattern of c-type and g-type lysozyme isoforms in starry flounder Platichthys stellate infected with Streptococcus parauberis. 2015 , 81, 353-363		12
205	Enzymes for food-packaging applications. 2015 , 161-178		1
204	The synthesis of tetrafluorinated aminosugars. 2015 , 174, 95-101		7
203	Structural and biochemical characterization of the EN-acetylglucosaminidase from Thermotoga maritima: toward rationalization of mechanistic knowledge in the GH73 family. 2015 , 25, 319-30		19
202	Cellulase biocatalysis: key influencing factors and mode of action. 2015 , 22, 2157-2182		21
201	High-pressure protein crystallography of hen egg-white lysozyme. 2015 , 71, 742-53		30
200	Experimental characterization of adsorbed protein orientation, conformation, and bioactivity. 2015 , 10, 019002		54
199	Structural analysis of a specialized type III secretion system peptidoglycan-cleaving enzyme. 2015 , 290, 10406-17		33
198	Understanding the Structure-Function Relationship of Lysozyme Resistance in Staphylococcus aureus by Peptidoglycan O-Acetylation Using Molecular Docking, Dynamics, and Lysis Assay. 2015 , 55, 760-70		45

197	Protecting Gram-negative bacterial cell envelopes from human lysozyme: Interactions with Ivy inhibitor proteins from Escherichia coli and Pseudomonas aeruginosa. 2015 , 1848, 3032-46	10
196	A product of RpfB and RipA joint enzymatic action promotes the resuscitation of dormant mycobacteria. 2015 , 282, 2500-11	31
195	An allolactose trapped at the lacZ Egalactosidase active site with its galactosyl moiety in a (4)H3 conformation provides insights into the formation, conformation, and stabilization of the transition state. 2015 , 93, 531-40	4
194	Investigation of a solvent-cast organogel to form a liquid-gel microinterface array for electrochemical detection of lysozyme. 2015 , 893, 34-40	15
193	Monobody-mediated alteration of enzyme specificity. 2015 , 11, 762-4	21
192	Hen egg-white lysozyme crystallisation: protein stacking and structure stability enhanced by a Tellurium(VI)-centred polyoxotungstate. 2015 , 16, 233-41	62
191	Chitinase biotechnology: Production, purification, and application. 2015 , 15, 30-38	55
190	One-pot synthesis of gold nanoclusters with bright red fluorescence and good biorecognition abilities for visualization fluorescence enhancement detection of E. coli. 2015 , 134, 54-59	52
189	Peptidoglycan Recognition Proteins and Lysozyme. 2016 , 389-403	8
188	Combinational Approaches for Antimicrobial Packaging: Lysozyme and Lactoferrin. 2016 , 589-597	1
187	Specific Electrochemiluminescence of Aptamer-Functionalized Quantum Dots with Lysozyme and Hemin as Co-Triggers. 2016 , 34, 331-336	1
186	Molecular cloning, inducible expression and antibacterial analysis of a novel i-type lysozyme (lyz-i2) in Pacific white shrimp, Litopenaeus vannamei. 2016 , 54, 197-203	20
185	The reaction mechanism of retaining glycosyltransferases. 2016 , 44, 51-60	34
184	New biological treatment targeting Mycobacterium tuberculosis in contaminated wastewater using lysing enzymes coupled to magnetic nanoparticles. 2016 , 5,	
183	Elucidating the pH-Dependent Structural Transition of T7 Bacteriophage Endolysin. 2016, 55, 4614-25	22
182	The changes of secondary structures and properties of lysozyme along with the egg storage. 2016 , 92, 600-606	54
181	Antimicrobial peptides as natural bio-preservative to enhance the shelf-life of food. 2016 , 53, 3381-3394	85
180	Structural Snapshots for Mechanism-Based Inactivation of a Glycoside Hydrolase by Cyclopropyl Carbasugars. 2016 , 128, 15202-15206	5

179	A EMannanase with a Lysozyme-like Fold and a Novel Molecular Catalytic Mechanism. 2016 , 2, 896-903		33
178	Structural Snapshots for Mechanism-Based Inactivation of a Glycoside Hydrolase by Cyclopropyl Carbasugars. 2016 , 55, 14978-14982		24
177	Structural and rheological properties of xanthan gum/lysozyme system induced by in situ acidification. 2016 , 90, 85-90		15
176	Imidazole derivatives differentially destabilize the low pH conformation of lysozyme through weak electrostatic interactions. 2016 , 6, 101395-101403		O
175	Cloning and expression analysis of c-type and g-type lysozymes in yellow catfish (Pelteobagrus fulvidraco). 2016 , 38, 707-716		2
174	Modulation and Salt-Induced Reverse Modulation of the Excited-State Proton-Transfer Process of Lysozymized Pyranine: The Contrasting Scenario of the Ground-State Acid-Base Equilibrium of the Photoacid. 2016 , 120, 7076-87		6
173	Injectable insulin-lysozyme-loaded nanogels with enzymatically-controlled degradation and release for basal insulin treatment: In vitro characterization and in vivo observation. 2016 , 224, 33-42		43
172	A Variety of Saccharide Binding-Sites. 2016 , 27-37		
171	Substrate Distortion and the Catalytic Reaction Mechanism of 5-Carboxyvanillate Decarboxylase. 2016 , 138, 826-36		29
170	Molecular characterization and expressing analysis of the c-type and g-type lysozymes in Qihe crucian carp Carassius auratus. 2016 , 52, 210-20		20
169	A Trapped Covalent Intermediate of a Glycoside Hydrolase on the Pathway to Transglycosylation. Insights from Experiments and Quantum Mechanics/Molecular Mechanics Simulations. 2016 , 138, 3325	-32	35
168	Observing cellulose biosynthesis and membrane translocation in crystallo. <i>Nature</i> , 2016 , 531, 329-34	50.4	90
167	The Discreet Charm of Protein Binding Sites. 2016 ,		1
166	Recent advances for the production and recovery methods of lysozyme. 2016 , 36, 1078-1088		32
165	Computer Simulation Tools for X-ray Analysis. <i>Graduate Texts in Physics</i> , 2016 ,	0.3	18
164	Fundamentals of X-Ray Physics. <i>Graduate Texts in Physics</i> , 2016 , 1-57	0.3	1
163	Determination of Lysozyme by Thiol-Terminated Aptamer-Based Surface Plasmon Resonance. 2017 , 50, 682-689		6
162	Enhancing the antimicrobial activity of Sus scrofa lysozyme by N-terminal fusion of a sextuple unique homologous peptide. 2017 , 243, 61-68		3

161	Analysis on the expression and function of a chicken-type and goose-type lysozymes in Chinese giant salamanders Andrias davidianus. 2017 , 72, 69-78	4
160	A Localized Complex of Two Protein Oligomers Controls the Orientation of Cell Polarity. 2017 , 8,	31
159	The mechanism behind the selection of two different cleavage sites in NAG-NAM polymers. <i>IUCrJ</i> , 2017 , 4, 185-198	10
158	Rapid insight into C60 influence on biological functions of proteins. 2017 , 28, 1775-1788	16
157	Computational Glycobiology: Mechanistic Studies of Carbohydrate-Active Enzymes and Implication for Inhibitor Design. 2017 , 109, 25-76	20
156	Bioinorganic antimicrobial strategies in the resistance era. 2017 , 351, 76-117	86
155	Using Neutron Reflectometry to Characterize Antimicrobial Protein Surface Coatings. 2017 , 121, 5908-5916	11
154	Molecular characterization and antibacterial activity of a phage-type lysozyme from the Manila clam, Ruditapes philippinarum. 2017 , 65, 17-24	8
153	A novel aptasensor for lysozyme based on electrogenerated chemiluminescence resonance energy transfer between luminol and silicon quantum dots. 2017 , 94, 530-535	44
152	Molecular characterization, expression and antimicrobial activities of two c-type lysozymes from manila clam Venerupis philippinarum. 2017 , 73, 109-118	16
151	Engineered N-acetylhexosamine-active enzymes in glycoscience. 2017 , 1861, 2070-2087	20
150	Long-term influence of cyanobacterial bloom on the immune system of Litopenaeus vannamei. 2017 , 61, 79-85	37
149	Peptidoglycan O-acetylation is functionally related to cell wall biosynthesis and cell division in Streptococcus pneumoniae. 2017 , 106, 832-846	14
148	Improved Accuracy for Constant pH-REMD Simulations through Modification of Carboxylate Effective Radii. 2017 , 13, 4624-4635	4
147	Counterpointing Scenarios on the Fate of Different Prototropic Forms of Norfloxacin Housed in the Pocket of Lysozyme: The Nonelectrostatic Interactions in the Protein Interior Are in the Controlling Role on the Prototropic Equilibria of the Guest. 2017 , 2, 5504-5517	7
146	Neutron structure of the T26H mutant of T4 phage lysozyme provides insight into the catalytic activity of the mutant enzyme and how it differs from that of wild type. 2017 , 26, 1953-1963	12
145	Changes in Enzyme Structural Dynamics Studied by Hydrogen Exchange-Mass Spectrometry: Ligand Binding Effects or Catalytically Relevant Motions?. 2017 , 89, 13326-13333	9
144	Modular endolysin of Burkholderia AP3 phage has the largest lysozyme-like catalytic subunit discovered to date and no catalytic aspartate residue. 2017 , 7, 14501	18

143	Lytic transglycosylases: concinnity in concision of the bacterial cell wall. 2017 , 52, 503-542	70
142	Catalytic Mechanism of Lysozyme Based on the Structures of Invertebrate-type Lysozyme and Chicken-type Lysozyme. 2017 , 57, 140-143	1
141	Effects of heat stress on somatostatin and some related immune factors in the small intestine of Wenchang chicks. 2017 , 62, 446-455	2
140	Probing Transition State Analogy in Glycoside Hydrolase Catalysis. 2017 , 99-127	4
139	Structural basis for the glycosyltransferase activity of the effector SseK3. 2018, 293, 5064-5078	32
138	Predicting Catalytic Proton Donors and Nucleophiles in Enzymes: How Adding Dynamics Helps Elucidate the Structure-Function Relationships. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 1179-1184 ^{6.4}	21
137	Point-of-Care Identification of Bacteria Using Protein-Encapsulated Gold Nanoclusters. 2018 , 7, e1701370	30
136	Decoding Surface Interaction of VO Metallodrug Candidates with Lysozyme. 2018 , 57, 4456-4469	22
135	A Water-Assisted Catalytic Mechanism in Glycoside Hydrolases Demonstrated on the Staphylococcus aureus Autolysin E. 2018 , 8, 4334-4345	11
134	A divergent synthesis to generate targeted libraries of inhibitors for endo-N-acetylglucosaminidases. 2018 , 96, 248-254	
133	A step-by-step guide to bond cleavage and 1,6-anhydro-sugar product synthesis by a peptidoglycan-degrading lytic transglycosylase. 2018 , 293, 6000-6010	11
132	Chemistry of Peptidoglycan in Mycobacterium tuberculosis Life Cycle: An off-the-wall Balance of Synthesis and Degradation. <i>Chemistry - A European Journal</i> , 2018 , 24, 2533-2546	26
131	The structure of DLP12 endolysin exhibiting alternate loop conformation and comparative analysis with other endolysins. 2018 , 86, 210-217	5
130	Synthesis and application of a highly branched, mechanism-based 2-deoxy-2-fluoro-oligosaccharide inhibitor of endo-xyloglucanases. 2018 , 16, 8732-8741	7
129	Gideon J. Davies. 2018 , 130, 12800-12800	
128	The pK values of the catalytic residues in the retaining glycoside hydrolase T26H mutant of T4 lysozyme. 2019 , 28, 620-632	2
127	Antibacterial activity of lysozyme-binding proteins from chicken egg white. 2018 , 154, 19-24	9
126	Hen Egg White Lysozyme Catalyzed Efficient Synthesis of 3-Indolyl-3-hydroxy Oxindole in Aqueous Ethanol. 2018 , 148, 3335-3341	5

125	Oxazoline or Oxazolinium Ion? The Protonation State and Conformation of the Reaction Intermediate of Chitinase Enzymes Revisited. <i>Chemistry - A European Journal</i> , 2018 , 24, 19258-19265	4.8	21
124	Distinguishing the differences in Eglycosylceramidase folds, dynamics, and actions informs therapeutic uses. 2018 , 59, 2262-2276		6
123	Enzymatic Transition States and Drug Design. <i>Chemical Reviews</i> , 2018 , 118, 11194-11258	68.1	42
122	Contrasting Effects of Guanidinium Chloride and Urea on the Activity and Unfolding of Lysozyme. 2018 , 3, 14119-14126		13
121	Impact of Protein-Polymer Interactions in the Antimicrobial Activity of Lysozyme/Poly(3,4-ethylenedioxythiophene) Biocapacitors. 2018 , 3, 9714-9724		1
120	Orthorhombic lysozyme crystallization at acidic pH values driven by phosphate binding. <i>Acta Crystallographica Section D: Structural Biology</i> , 2018 , 74, 480-489	5.5	6
119	Identification and characterization of a novel goose-type and chicken-type lysozyme genes in Chinese rare minnow (Gobiocypris rarus) with potent antimicrobial activity. 2018 , 40, 569-577		6
118	The molecularly imprinted polymer essentials: curation of anticancer, ophthalmic, and projected gene therapy drug delivery systems. 2018 , 287, 24-34		40
117	Gideon J. Davies. 2018 , 57, 12620-12620		
116	Revealing the mechanism for covalent inhibition of glycoside hydrolases by carbasugars at an atomic level. 2018 , 9, 3243		14
115	Modulating the Nucleophile of a Glycoside Hydrolase through Site-Specific Incorporation of Fluoroglutamic Acids. 2018 , 140, 8268-8276		7
114	Newly identified C-type lysozyme in Chinese soft-shelled turtle (Pelodiscus sinensis) exhibits potent antimicrobial activity. 2019 , 50, 2826-2837		4
113	A label-free turn ONDFF chemiluminescence strategy for lysozyme detection by target-triggered Cu2\(\text{LS} \) Se aggregation. 2019 , 11, 4376-4381		3
112	Peptidoglycan O-Acetylation as a Virulence Factor: Its Effect on Lysozyme in the Innate Immune System. 2019 , 8,		18
111	A top-down chemo-enzymatic approach towards N-acetylglucosamine-N-acetylmuramic oligosaccharides: Chitosan as a reliable template. <i>Carbohydrate Polymers</i> , 2019 , 224, 115133	10.3	4
110	Study on Irradiation Effect of Mid-Infrared Free Electron Laser on Hen Egg-White Lysozyme by Using Terahertz-Time Domain Spectroscopy and Synchrotron-Radiation Vacuum-Ultraviolet Circular-Dichroism Spectroscopy. 2019 , 40, 998-1009		1
109	The C-Type Lysozyme from the upper Gastrointestinal Tract of the Stinkbird. 2019 , 20,		1
108	Activity-Based Probes for Profiling Protein Activities. 2019 , 101-125		1

(2020-2019)

107	Electrogenerated chemiluminescence of cucurbit[n]urils modified electrode and its sensing application. 2019 , 851, 113404	1
106	Enzymatic control of cycloadduct conformation ensures reversible 1,3-dipolar cycloaddition in a prFMN-dependent decarboxylase. 2019 , 11, 1049-1057	20
105	Suicide inactivation of the uracil DNA glycosylase UdgX by covalent complex formation. 2019 , 15, 615-622	11
104	Stereoselectivity in Glycosylation with Deoxofluorinated Glucosazide and Galactosazide Thiodonors. 2019 , 84, 6405-6431	7
103	Molecular characterization, expression and antimicrobial activities of a c-type lysozyme from the mud crab, Scylla paramamosain. 2019 , 98, 54-64	15
102	Role of Disulfide Bonds and Topological Frustration in the Kinetic Partitioning of Lysozyme Folding Pathways. 2019 , 123, 3232-3241	8
101	Unfolding Pathways of Hen Egg-White Lysozyme in Ethanol. 2019 , 123, 3267-3271	6
100	Quantum Mechanics/Molecular Mechanics Simulations Show Saccharide Distortion is Required for Reaction in Hen Egg-White Lysozyme. <i>Chemistry - A European Journal</i> , 2019 , 25, 764-768	5
99	Fluorosugars as inhibitors of bacterial enzymes. 2019 , 241-279	4
98	Antimicrobial Peptides: the Achilles' Heel of Antibiotic Resistance?. 2019 , 11, 370-381	68
98 97	Antimicrobial Peptides: the Achilles' Heel of Antibiotic Resistance?. 2019 , 11, 370-381 Design and synthesis of glycomimetics: Recent advances. 2020 , 40, 495-531	68 42
Í		
97	Design and synthesis of glycomimetics: Recent advances. 2020 , 40, 495-531	42
97	Design and synthesis of glycomimetics: Recent advances. 2020 , 40, 495-531 Identifying pseudoenzymes using functional annotation: pitfalls of common practice. 2020 , 287, 4128-4140	42 8
97 96 95	Design and synthesis of glycomimetics: Recent advances. 2020 , 40, 495-531 Identifying pseudoenzymes using functional annotation: pitfalls of common practice. 2020 , 287, 4128-4140 The binding of precipitant ions in the tetragonal crystals of hen egg white lysozyme. 2020 , 38, 5159-5172 The Role of Protons and Hydrides in the Catalytic Hydrogenolysis of Guaiacol at the Ruthenium	42 8 5
97 96 95 94	Design and synthesis of glycomimetics: Recent advances. 2020, 40, 495-531 Identifying pseudoenzymes using functional annotation: pitfalls of common practice. 2020, 287, 4128-4140 The binding of precipitant ions in the tetragonal crystals of hen egg white lysozyme. 2020, 38, 5159-5172 The Role of Protons and Hydrides in the Catalytic Hydrogenolysis of Guaiacol at the Ruthenium NanoparticleWater Interface. 2020, 10, 12310-12332 Electrophoretic injection and reaction of dye-bound enzymes to protein and bacteria within gel.	42 8 5
97 96 95 94 93	Design and synthesis of glycomimetics: Recent advances. 2020, 40, 495-531 Identifying pseudoenzymes using functional annotation: pitfalls of common practice. 2020, 287, 4128-4140 The binding of precipitant ions in the tetragonal crystals of hen egg white lysozyme. 2020, 38, 5159-5172 The Role of Protons and Hydrides in the Catalytic Hydrogenolysis of Guaiacol at the Ruthenium Nanoparticle Water Interface. 2020, 10, 12310-12332 Electrophoretic injection and reaction of dye-bound enzymes to protein and bacteria within gel. 2020, 176, 106028 Genetically Encoded Biosensor-Based Screening for Directed Bacteriophage T4 Lysozyme	42 8 5 11

89	A lysozyme with altered substrate specificity facilitates prey cell exit by the periplasmic predator Bdellovibrio bacteriovorus. 2020 , 11, 4817	12
88	Size-Tunable Metal-Organic Framework-Coated Magnetic Nanoparticles for Enzyme Encapsulation and Large-Substrate Biocatalysis. 2020 , 12, 41794-41801	24
87	Selective Stabilization of Aspartic Acid Protonation State within a Given Protein Conformation Occurs via Specific "Molecular Association". 2020 , 124, 5350-5361	5
86	Transcriptome Analysis of Gene Expression in HZAU 226 under Lysozyme Stress. 2020 , 8,	4
85	Computer simulations explain the anomalous temperature optimum in a cold-adapted enzyme. 2020 , 11, 2644	19
84	A Combinational Strategy for Effective Heterologous Production of Functional Human Lysozyme in. 2020 , 8, 118	4
83	Type III Secretion Effectors with Arginine N-Glycosyltransferase Activity. 2020, 8,	9
82	Assembling patchy plasmonic nanoparticles with aggregation-dependent antibacterial activity. 2020 , 580, 419-428	8
81	A Colorimetric Assay to Enable High-Throughput Identification of Biofilm Exopolysaccharide-Hydrolyzing Enzymes. <i>Chemistry - A European Journal</i> , 2020 , 26, 10719-10723	3
80	The multifarious lysozyme arsenal of Dictyostelium discoideum. 2020 , 107, 103645	5
79	6-Deoxy-6-fluoro galactofuranosides: regioselective glycosylation, unexpected reactivity, and anti-leishmanial activity. 2020 , 18, 1462-1475	1
78	Two Distinct C-Type Lysozymes in Goldfish: Molecular Characterization, Antimicrobial Potential, and Transcriptional Regulation in Response to Opposing Effects of Bacteria/Lipopolysaccharide and Dexamethasone/Leptin. 2020 , 21,	2
77	High-resolution crystal structures of a "half sandwich"-type Ru(II) coordination compound bound to hen egg-white lysozyme and proteinase K. 2020 , 25, 635-645	4
76	Enzyme Immobilization on Graphite Oxide (GO) Surface via One-Pot Synthesis of GO/Metal-Organic Framework Composites for Large-Substrate Biocatalysis. 2020 , 12, 23119-23126	26
75	Gold Nanoclusters for Bacterial Detection and Infection Therapy. 2020 , 8, 181	12
74	Protein encapsulation by electrospinning and electrospraying. 2021 , 329, 1172-1197	24
73	One-pot synthesis of enzyme@metalBrganic material (MOM) biocomposites for enzyme biocatalysis. 2021 , 23, 4466-4476	8
72	Functional design of glycan-conjugated molecules using a chemoenzymatic approach. 2021 , 85, 1046-1055	O

71	Recent structural insights into the mechanism of lysozyme hydrolysis. <i>Acta Crystallographica Section D: Structural Biology</i> , 2021 , 77, 288-292	5.5	2
70	Identification and Functional Analysis of a Lysozyme Gene from (Hemiptera: Dinidoridae). 2021 , 10,		1
69	A physicochemical, structural, microbiological and kinetic study of hen egg white lysozyme in complexes with alginate and chitosan. 1-14		2
68	Why chitosan could be apt candidate for glaucoma drug delivery - An overview. 2021 , 176, 47-65		13
67	Protein Dynamics and Time Resolved Protein Crystallography at Synchrotron Radiation Sources: Past, Present and Future. 2021 , 11, 521		6
66	Covalent Nucleophilic Catalysis: Structures of Enzyme Intermediates in Covalent Enzyme Catalysis. 2, 1-10		
65	Orthogonal Active-Site Labels for Mixed-Linkage endo-EGlucanases. <i>ACS Chemical Biology</i> , 2021 , 16, 1968-1984	4.9	3
64	A general Ca-MOM platform with enhanced acid-base stability for enzyme biocatalysis. 2021 , 1, 146-16	1	8
63	Thermodynamic Analysis for Binding of 4Eriacetylchitotriosyl Moranoline, a Transition State Analogue Inhibitor for Hen Egg White Lysozyme. 2021 , 8, 654706		
62	Intellective and stimuli-responsive drug delivery systems in eyes. 2021 , 602, 120591		7
61	The Mycobacteriophage Ms6 LysB -Terminus Displays Peptidoglycan Binding Affinity. 2021 , 13,		О
60	A GH13 Eglucosidase from Weissella cibaria uncommonly acts on short-chain maltooligosaccharides. <i>Acta Crystallographica Section D: Structural Biology</i> , 2021 , 77, 1064-1076	5.5	2
59	The Lysozyme Inhibitor Thionine Acetate Is Also an Inhibitor of the Soluble Lytic Transglycosylase Slt35 from. 2021 , 26,		
58	Defect Induced Charge Redistribution and Enhanced Adsorption of Lysozyme on Hydroxyapatite for Efficient Antibacterial Activity. 2021 , 37, 10786-10796		О
	To Enterene Analog eccenter technicy: 2021 51 10100 10100		\
57	Protocol for resolving enzyme orientation and dynamics in advanced porous materials via SDSL-EPR. 2021 , 2, 100676		3
57 56	Protocol for resolving enzyme orientation and dynamics in advanced porous materials via	6.9	3 5
	Protocol for resolving enzyme orientation and dynamics in advanced porous materials via SDSL-EPR. 2021 , 2, 100676 Self-Assembly Pathways and Antimicrobial Properties of Lysozyme in Different Aggregation States.	6.9	

53	First Steps Towards Quantum Refinement of Protein X-Ray Structures. 2012, 87-120		6
52	Alpha-retaining glucosyl transfer catalysed by trehalose phosphorylase from Schizophyllum commune: mechanistic evidence obtained from steady-state kinetic studies with substrate analogues and inhibitors. <i>Biochemical Journal</i> , 2001 , 360, 727-36	3.8	10
51	Mix-and-diffuse serial synchrotron crystallography. <i>IUCrJ</i> , 2017 , 4, 769-777	4.7	71
50	Crystal structures of the Bacillus subtilis prophage lytic cassette proteins XepA and YomS. <i>Acta Crystallographica Section D: Structural Biology</i> , 2019 , 75, 1028-1039	5.5	5
49	Nerve agent hydrolysis activity designed into a human drug metabolism enzyme. <i>PLoS ONE</i> , 2011 , 6, e17441	3.7	18
48	Mechanistic insights into validoxylamine A 7'-phosphate synthesis by VldE using the structure of the entire product complex. <i>PLoS ONE</i> , 2012 , 7, e44934	3.7	11
47	A novel C-type lysozyme from Mytilus galloprovincialis: insight into innate immunity and molecular evolution of invertebrate C-type lysozymes. <i>PLoS ONE</i> , 2013 , 8, e67469	3.7	16
46	Antibacterial activity of lysozyme in the desert locust, Schistocerca gregaria (Orthoptera: Acrididae). European Journal of Entomology, 2013 , 110, 559-565		9
45	Chemoenzymatic Synthesis and Function of Chitin Derivatives. <i>Current Pharmaceutical Design</i> , 2020 , 26, 3522-3529	3.3	2
44	Egg White Lysozyme Promoted Collagen Secreting of Dermal Fibroblasts in Mice. <i>Asian Journal of Animal and Veterinary Advances</i> , 2011 , 6, 667-677	0.1	6
43	Structure of a low-population intermediate state in the release of an enzyme product. <i>ELife</i> , 2015 , 4,	8.9	25
42	Mathematical Description of the Enzymatic Activity of Proteins with Ionizable Groups Exhibiting Deviations from the Henderson-Hasselbalch Equation. <i>Applied Biochemistry and Biotechnology</i> , 2021 , 194, 1221	3.2	
41	Size-Controlled Synthesis of [1-4)-GlcNAc Oligosaccharides Using an Endo-Glycosynthase. <i>Chemistry - A European Journal</i> , 2021 ,	4.8	О
40	The Chameleon of Retaining Glycoside Hydrolases and Retaining Glycosyl Transferases: The Catalytic Nucleophile. 2002 , 191-204		
39	Bioenergetik und Enzymologie. <i>Springer-Lehrbuch</i> , 2003 , 103-139	0.4	
38	Details in the Reaction Mechanism of Chitinases. 2003,		
37	Rational Redesign of Enzymes. 2003 ,		
36	Chapter 4:Enzyme Models Classified by Reaction. 2009 , 61-194		

35	Enzyme Dynamics and Catalysis: Insights from Simulations. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2010 , 375-395	0.7	
34	Toward ab initio refinement of protein X-ray crystal structures: interpreting and correlating structural fluctuations. 2012 , 21-36		
33	Molecular Probes for Protein Glycosylation. 2013,		
32	Effect of Temperature on the Expression of I-Type Lysozyme cDNA from Oyster (Crassostrea Hongkongensis). <i>International Journal of Bioscience, Biochemistry, Bioinformatics (IJBBB)</i> , 2016 , 6, 130-7	138 ^{.3}	
31	Complex Systems. <i>Graduate Texts in Physics</i> , 2016 , 81-125	0.3	
30	Effect of chloride ions on the catalytic properties of human pancreatic Hamylase isozyme produced in Pichia pastoris. <i>Korean Journal of Food Science and Technology</i> , 2016 , 48, 341-346		
29	Structure and Catalysis: Conformational Flexibility and Protein Motion. 2018, 75-82		1
28	Which Enzyme Uses What Tricks?. 2018 , 71-74		
27	Role of Disulfide Bonds and Topological Frustration in the Kinetic Partitioning of Lysozyme Folding Pathways.		
26	Novel Biorecognition Elements against Pathogens in the Design of State-of-the-Art Diagnostics. <i>Biosensors</i> , 2021 , 11,	5.9	2
25	Kinetic and Structural Characterization of Sialidases (Kdnases) from Ascomycete Fungal Pathogens. <i>ACS Chemical Biology</i> , 2021 , 16, 2632-2640	4.9	
24	Introduction to Glycoside Hydrolases: Classification, Identification and Occurrence. 2020, 3-84		1
23	Enzymes Involved in Chitin and Chitosan Decomposition and Synthesis. 81-112		
22	Bioenergetik und Enzymologie. 2007 , 99-139		
21	Multifunctional fluorescent probes for high-throughput characterization of hexosaminidase enzyme activity. <i>Bioorganic Chemistry</i> , 2021 , 119, 105532	5.1	2
20	Freezethaw-, enzyme-, ultrasound- and pulsed electric field-assisted extractions of C-phycocyanin from Spirulina platensis dry biomass. <i>Journal of Food Measurement and Characterization</i> , 2022 , 16, 162	5 ^{2.8}	O
19	Antibacterial Properties of TMA against and Effect of Temperature and Storage Duration on TMA Content, Lysozyme Activity and Content in Eggs <i>Foods</i> , 2022 , 11,	4.9	2
18	Novel chitosan - graphene quantum dots composite for therapeutic delivery and tracking through enzymatic stimuli response <i>Carbohydrate Polymers</i> , 2022 , 289, 119426	10.3	O

17	Quinolinate Synthase: An Example of the Roles of the Second and Outer Coordination Spheres in Enzyme Catalysis <i>Chemical Reviews</i> , 2022 ,	68.1	1
16	[Review] Protein Engineering Studies on Chitinase/Chitosanase to Create a Novel Enzyme Function. <i>Bulletin of Applied Glycoscience</i> , 2018 , 8, 33-44	0.1	
15	Interplay Between Theory and Experiment: A Future Approach for Biomedical Research. 2022, 41-67		
14	Protonation states of hen egg-white lysozyme observed using D/H contrast neutron crystallography. <i>Acta Crystallographica Section D: Structural Biology</i> , 2022 , 78,	5.5	O
13	A Single Hydrogen Bond Controls the Selectivity of Transglycosylation vs Hydrolysis in Family 13 Glycoside Hydrolases. <i>Journal of Physical Chemistry Letters</i> , 2022 , 13, 5626-5632	6.4	0
12	[Review] Study on Synthesis of Chitin Derivatives Using a Chemoenzymatic Approach. 2022 , 12, 84-91		
11	Dithiol Based on l-Cysteine and Cysteamine as a Disulfide-Reducing Agent. 2022 , 87, 10073-10079		1
10	Antimicrobial Proteins and Peptides in Avian Eggshell: Structural Diversity and Potential Roles in Biomineralization. 13,		
9	Current Advances in Nano-Based and Polymeric Stimuli-Responsive Drug Delivery Targeting the Ocular Microenvironment: A Review and Envisaged Future Perspectives. 2022 , 14, 3580		0
8	Lysozyme and Its Application as Antibacterial Agent in Food Industry. 2022 , 27, 6305		2
7	The retaining EKdo glycosyltransferase WbbB uses a double-displacement mechanism with an intermediate adduct rearrangement step. 2022 , 13,		O
6	Tunnel engineering enables multifaceted improvements in halogenase. 2022 , 2, 2432-2434		O
5	Expanding the <code>LibraryLof</code> Metal\(\mathbf{D}\)rganic Frameworks for Enzyme Biomineralization.		О
4	Access to Amide-linked Organic Cages by in situ Trapping of Metastable Imine Assemblies: Solution Phase Bisamine Recognition.		O
3	Structural snapshots of base excision by the cancer-associated variant MutY N146S reveal a retaining mechanism.		О
2	Capturing Covalent Catalytic Intermediates by Enzyme Mutants: Recent Advances in Methodologies and Applications.		O
1	Bacteriolytic activity in saliva of the hematophagous Triatoma infestans (Reduviidae) and novel characterization and expression site of a third lysozyme.		О