

Richard John Ward

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47
papers

938
citations

20
h-index

29
g-index

49
ext. papers

1,053
ext. citations

4.1
avg, IF

4.05
L-index

#	Paper	IF	Citations
47	Structural basis for glucose tolerance in GH1 β -glucosidases. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014 , 70, 1631-9		91
46	Glucose tolerant and glucose stimulated β -glucosidases - A review. <i>Bioresource Technology</i> , 2018 , 267, 704-713	11	59
45	Engineering the pattern of protein glycosylation modulates the thermostability of a GH11 xylanase. <i>Journal of Biological Chemistry</i> , 2013 , 288, 25522-25534	5.4	49
44	Synthetic biology approaches to improve biocatalyst identification in metagenomic library screening. <i>Microbial Biotechnology</i> , 2015 , 8, 52-64	6.3	47
43	Biochemical and structural characterization of a β -1,3,4-glucanase from <i>Bacillus subtilis</i> 168. <i>Process Biochemistry</i> , 2011 , 46, 1202-1206	4.8	43
42	Spectroscopic characterization and structural modeling of prolamin from maize and pearl millet. <i>European Biophysics Journal</i> , 2004 , 33, 335-43	1.9	43
41	Isolation, purification, and physicochemical characterization of a D-galactose-binding lectin from seeds of <i>Erythrina speciosa</i> . <i>Archives of Biochemistry and Biophysics</i> , 2003 , 410, 222-9	4.1	40
40	Glucose and xylose stimulation of a β -glucosidase from the thermophilic fungus <i>Humicola insolens</i> : A kinetic and biophysical study. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2013 , 94, 119-128		37
39	Intersexual variations in the venom of the Brazilian α -armed spider <i>Phoneutria nigriventer</i> (Keyserling, 1891). <i>Toxicon</i> , 2002 , 40, 1399-406	2.8	37
38	Gene cloning, expression and biochemical characterization of a glucose- and xylose-stimulated β -glucosidase from <i>Humicola insolens</i> RP86. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014 , 106, 1-10		30
37	Ontogenetic changes in <i>Phoneutria nigriventer</i> (Araneae, Ctenidae) spider venom. <i>Toxicon</i> , 2004 , 44, 635-40	2.8	25
36	A xylose-stimulated xylanase-xylose binding protein chimera created by random nonhomologous recombination. <i>Biotechnology for Biofuels</i> , 2016 , 9, 119	7.8	25
35	Characterization of temperature dependent and substrate-binding cleft movements in <i>Bacillus circulans</i> family 11 xylanase: a molecular dynamics investigation. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2009 , 1790, 1301-6	4	24
34	Properties of a purified thermostable glucoamylase from <i>Aspergillus niveus</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2009 , 36, 1439-46	4.2	23
33	Concomitant adaptation of a GH11 xylanase by directed evolution to create an alkali-tolerant/thermophilic enzyme. <i>Protein Engineering, Design and Selection</i> , 2014 , 27, 255-62	1.9	22
32	Purification, some properties of a D-galactose-binding leaf lectin from <i>Erythrina indica</i> and further characterization of seed lectin. <i>Biochimie</i> , 2002 , 84, 1035-43	4.6	22
31	A <i>Neurospora crassa</i> β -glucosidase with potential for lignocellulose hydrolysis shows strong glucose tolerance and stimulation by glucose and xylose. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015 , 122, 131-140		21

30	Expression and characterization of HlyX hemolysin from <i>Leptospira interrogans</i> serovar Copenhageni: potentiation of hemolytic activity by LipL32. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 333, 1341-7	3.4	21
29	Insertion of a xylanase in xylose binding protein results in a xylose-stimulated xylanase. <i>Biotechnology for Biofuels</i> , 2015 , 8, 118	7.8	20
28	Biochemical properties of glycosylation and characterization of a histidine acid phosphatase (phytase) expressed in <i>Pichia pastoris</i> . <i>Protein Expression and Purification</i> , 2014 , 99, 43-9	2	20
27	Immobilization of a α -glucosidase and an endoglucanase in ferromagnetic nanoparticles: A study of synergistic effects. <i>Protein Expression and Purification</i> , 2019 , 160, 28-35	2	18
26	Purification and biochemical characterization of a novel alpha-glucosidase from <i>Aspergillus niveus</i> . <i>Antonie Van Leeuwenhoek</i> , 2009 , 96, 569-78	2.1	18
25	Engineering the GH1 α -glucosidase from <i>Humicola insolens</i> : Insights on the stimulation of activity by glucose and xylose. <i>PLoS ONE</i> , 2017 , 12, e0188254	3.7	17
24	Method for forming two-dimensional paracrystals of biological filaments on lipid monolayers. <i>Journal of Electron Microscopy Technique</i> , 1990 , 14, 335-41		15
23	Conformation analysis of a surface loop that controls active site access in the GH11 xylanase A from <i>Bacillus subtilis</i> . <i>Journal of Molecular Modeling</i> , 2012 , 18, 1473-9	2	14
22	Purification and characterization of two xylanases from alkalophilic and thermophilic <i>Bacillus licheniformis</i> 77-2. <i>Applied Biochemistry and Biotechnology</i> , 2006 , 129-132, 289-302	3.2	14
21	The biological activity in mammals and insects of the nucleosidic fraction from the spider <i>Parawixia bistriata</i> . <i>Toxicon</i> , 2004 , 43, 375-83	2.8	14
20	The role of local residue environmental changes in thermostable mutants of the GH11 xylanase from <i>Bacillus subtilis</i> . <i>International Journal of Biological Macromolecules</i> , 2017 , 97, 574-584	7.9	11
19	A Highly Glucose Tolerant α -Glucosidase from <i>Malbranchea pulchella</i> (MpBg3) Enables Cellulose Saccharification. <i>Scientific Reports</i> , 2020 , 10, 6998	4.9	11
18	The association of Na,K-ATPase subunits studied by circular dichroism, surface tension and dilatational elasticity. <i>Journal of Colloid and Interface Science</i> , 2008 , 325, 478-84	9.3	11
17	Influence of enzyme conformational changes on catalytic activity investigated by circular dichroism spectroscopy. <i>Biochemistry and Molecular Biology Education</i> , 2003 , 31, 329-332	1.3	11
16	Lipid bilayer stabilization of the Na,K-ATPase reconstituted in DPPC/DPPE liposomes. <i>Cell Biochemistry and Biophysics</i> , 2006 , 44, 438-45	3.2	10
15	Overexpression of a Cellobiose-Glucose-Halotolerant Endoglucanase from <i>Scytalidium thermophilum</i> . <i>Applied Biochemistry and Biotechnology</i> , 2018 , 185, 316-333	3.2	10
14	Activation of Ca ²⁺ -independent membrane-damaging activity in Lys49-phospholipase A2 promoted by amphiphilic molecules. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 322, 364-72	3.4	9
13	GH53 Endo-Beta-1,4-Galactanase from a Newly Isolated <i>Bacillus licheniformis</i> CBMAI 1609 as an Enzymatic Cocktail Supplement for Biomass Saccharification. <i>Applied Biochemistry and Biotechnology</i> , 2016 , 179, 415-26	3.2	8

12	A novel <i>Trichoderma reesei</i> mutant RP698 with enhanced cellulase production. <i>Brazilian Journal of Microbiology</i> , 2020 , 51, 537-545	2.2	8
11	A practical teaching course in directed protein evolution using the green fluorescent protein as a model. <i>Biochemistry and Molecular Biology Education</i> , 2011 , 39, 21-7	1.3	7
10	Increased biomass saccharification by supplementation of a commercial enzyme cocktail with endo-arabinanase from <i>Bacillus licheniformis</i> . <i>Biotechnology Letters</i> , 2015 , 37, 1455-62	3	6
9	Lignocellulose binding of a Cel5A-RtCBM11 chimera with enhanced Eglucanase activity monitored by electron paramagnetic resonance. <i>Biotechnology for Biofuels</i> , 2017 , 10, 269	7.8	5
8	Defective T-cell activation by <i>Mycoplasma arthritidis</i> mitogen is restored by interferon-gamma. <i>Cellular Immunology</i> , 1989 , 120, 188-94	4.4	5
7	Biochemical and kinetic characterization of the recombinant GH28 <i>Stereum purpureum</i> endopolygalacturonase and its biotechnological application. <i>International Journal of Biological Macromolecules</i> , 2019 , 137, 469-474	7.9	4
6	Characterization of suramin binding sites on the human group IIA secreted phospholipase A2 by site-directed mutagenesis and molecular dynamics simulation. <i>Archives of Biochemistry and Biophysics</i> , 2012 , 519, 17-22	4.1	4
5	Production, purification, crystallization and preliminary X-ray diffraction studies of the nucleoside diphosphate kinase b from <i>Leishmania major</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2009 , 65, 1116-9		3
4	An ultraviolet photoacoustic spectroscopy study of the interaction between Lys49-phospholipase A2 and amphiphilic molecules. <i>Biochemical and Biophysical Research Communications</i> , 2007 , 353, 889-94	3.4	3
3	Enhanced hydrolytic efficiency of an engineered CBM11-glucanase enzyme chimera against barley E-d-glucan extracts. <i>Food Chemistry</i> , 2021 , 365, 130460	8.5	2
2	Covalent Immobilization of <i>Chondrostereum purpureum</i> Endopolygalacturonase on Ferromagnetic Nanoparticles: Catalytic Properties and Biotechnological Application. <i>Applied Biochemistry and Biotechnology</i> , 2021 , 1	3.2	1
1	Synthetic carbohydrate-binding module-endogalacturonase chimeras increase catalytic efficiency and saccharification of lignocellulose residues. <i>Biomass Conversion and Biorefinery</i> , 1	2.3	0