Igor Polikarpov

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

298 papers	8,322 citations	46 h-index	79 g-index
305 ext. papers	9,309 ext. citations	4.7 avg, IF	5.87 L-index

#	Paper	IF	Citations
298	Differences in chemical composition and physical properties caused by industrial storage on sugarcane bagasse result in its efficient enzymatic hydrolysis. *Sustainable Energy and Fuels*, **2022**, 6, 329-348	5.8	1
297	An overview on progress, advances, and future outlook for biohydrogen production technology. *International Journal of Hydrogen Energy*, **2022**,	6.7	4
296	Paludibacter propionicigenes GH10 xylanase as a tool for enzymatic xylooligosaccharides production from heteroxylans. *Carbohydrate Polymers*, **2022**, 275, 118684	10.3	1
295	When the order matters: Impacts of lignin removal and xylan conformation on the physical structure and enzymatic hydrolysis of sugarcane bagasse. *Industrial Crops and Products*, **2022**, 180, 114708	5.9	0
294	A GH115 -glucuronidase structure reveals dimerization-mediated substrate binding and a proton wire potentially important for catalysis.. *Acta Crystallographica Section D: Structural Biology*, **2022**, 78, 658-668	5.5	
293	Polymer ultrastructure governs AA9 lytic polysaccharide monooxygenases functionalization and deconstruction efficacy on cellulose nano-crystals. *Bioresource Technology*, **2021**, 347, 126375	11	1
292	SAXSMoW 3.0: New advances in the determination of the molecular weight of proteins in dilute solutions from SAXS intensity data on a relative scale. *Protein Science*, **2021**,	6.3	4
291	Comparative analysis of two recombinant LPMOs from Aspergillus fumigatus and their effects on sugarcane bagasse saccharification. *Enzyme and Microbial Technology*, **2021**, 144, 109746	3.8	7
290	Production of prebiotic xylooligosaccharides from arabino- and glucuronoxylan using a two-domain Jonesia denitrificans xylanase from GH10 family. *Enzyme and Microbial Technology*, **2021**, 144, 109743	3.8	4
289	Light-stimulated T. thermophilus two-domain LPMO9H: Low-resolution SAXS model and synergy with cellulases. *Carbohydrate Polymers*, **2021**, 260, 117814	10.3	3
288	Xyloglucan processing machinery in Xanthomonas pathogens and its role in the transcriptional activation of virulence factors. *Nature Communications*, **2021**, 12, 4049	17.4	8
287	Unlocking the structural features for the xylobiohydrolase activity of an unusual GH11 member identified in a compost-derived consortium. *Biotechnology and Bioengineering*, **2021**, 118, 4052-4064	4.9	2
286	Cellulose nanofibers production using a set of recombinant enzymes. *Carbohydrate Polymers*, **2021**, 256, 117510	10.3	12
285	Liquid ammonia pretreatment optimization for improved release of fermentable sugars from sugarcane bagasse. *Journal of Cleaner Production*, **2021**, 281, 123922	10.3	9
284	Structural and molecular dynamics investigations of ligand stabilization via secondary binding site interactions in GH11 xylanase. *Computational and Structural Biotechnology Journal*, **2021**, 19, 1557-1566	6.8	2
283	Impact of cellulose properties on enzymatic degradation by bacterial GH48 enzymes: Structural and mechanistic insights from processive Bacillus licheniformis Cel48B cellulase. *Carbohydrate Polymers* , **2021**, 264, 118059	10.3	2
282	Differences in Gluco and Galacto Substrate-Binding Interactions in a Dual 6P-Glucosidase/6P-Galactosidase Glycoside Hydrolase 1 Enzyme from. *Journal of Chemical Information and Modeling*, **2021**, 61, 4554-4570	6.1	0

281	Recent advances in the enzymatic production and applications of xylooligosaccharides. *World Journal of Microbiology and Biotechnology*, **2021**, 37, 169	4.4	4
280	Insights into the dual cleavage activity of the GH16 laminarinase enzyme class on β1,3 and β1,4 glycosidic bonds. *Journal of Biological Chemistry*, **2021**, 296, 100385	5.4	1
279	X-ray Structure, Bioinformatics Analysis, and Substrate Specificity of a 6-Phospho-β-glucosidase Glycoside Hydrolase 1 Enzyme from. *Journal of Chemical Information and Modeling*, **2020**, 60, 6392-6407	6.1	3
278	A linker of the proline-threonine repeating motif sequence is bimodal. *Journal of Molecular Modeling*, **2020**, 26, 178	2	0
277	Transformation of xylan into value-added biocommodities using Thermobacillus composti GH10 xylanase. *Carbohydrate Polymers*, **2020**, 247, 116714	10.3	10
276	Enzymatic versatility and thermostability of a new aryl-alcohol oxidase from Thermothelomyces thermophilus M77. *Biochimica Et Biophysica Acta - General Subjects*, **2020**, 1864, 129681	4	6
275	Enhanced hydrolysis of hydrothermally and autohydrolytically treated sugarcane bagasse and understanding the structural changes leading to improved saccharification. *Biomass and Bioenergy*, **2020**, 139, 105639	5.3	11
274	Biomassa lignocelulósica: estrutura e composição **2020**, 9-30		
273	Characterization of Pretreated Fractions and Cellulosic Ethanol Production from Steam-Exploded Eucalyptus urograndis. *Energy & Fuels*, **2020**, 34, 535-545	4.1	1
272	A simple enzymatic assay for the quantification of C1-specific cellulose oxidation by lytic polysaccharide monooxygenases. *Biotechnology Letters*, **2020**, 42, 93-102	3	15
271	Multienzyme Cellulose Films as Sustainable and Self-Degradable Hydrogen Peroxide-Producing Material. *Biomacromolecules*, **2020**, 21, 5315-5322	6.9	0
270	Low-resolution molecular shape, biochemical characterization and emulsification properties of a halotolerant esterase from Bacillus licheniformis. *European Biophysics Journal*, **2020**, 49, 435-447	1.9	1
269	Enzymes for lignocellulosic biomass polysaccharide valorization and production of nanomaterials. *Current Opinion in Green and Sustainable Chemistry*, **2020**, 26, 100397	7.9	5
268	Physical techniques shed light on the differences in sugarcane bagasse structure subjected to steam explosion pretreatments at equivalent combined severity factors. *Industrial Crops and Products*, **2020**, 158, 113003	5.9	7
267	Functional characterization of a novel thermophilic exo-arabinanase from Thermothielavioides terrestris. *Applied Microbiology and Biotechnology*, **2020**, 104, 8309-8326	5.7	3
266	The structure of the extended E2 DNA-binding domain of the bovine papillomavirus-1. *Proteins: Structure, Function and Bioinformatics*, **2020**, 88, 106-112	4.2	0
265	Essential Metabolic Routes as a Way to ESKAPE From Antibiotic Resistance. *Frontiers in Public Health*, **2020**, 8, 26	6	7
264	Structural insights into the hydrolysis pattern and molecular dynamics simulations of GH45 subfamily a endoglucanase from Neurospora crassa OR74A. *Biochimie*, **2019**, 165, 275-284	4.6	2

263	Carbohydrate binding modules enhance cellulose enzymatic hydrolysis by increasing access of cellulases to the substrate. *Carbohydrate Polymers*, **2019**, 211, 57-68	10.3	37
262	Crystallographic structure and molecular dynamics simulations of the major endoglucanase from Xanthomonas campestris pv. campestris shed light on its oligosaccharide products release pattern. *International Journal of Biological Macromolecules*, **2019**, 136, 493-502	7.9	3
261	A review on bioprocessing of paddy straw to ethanol using simultaneous saccharification and fermentation. *Process Biochemistry*, **2019**, 85, 125-134	4.8	31
260	Structure and dynamics of Trichoderma harzianum Cel7B suggest molecular architecture adaptations required for a wide spectrum of activities on plant cell wall polysaccharides. *Biochimica Et Biophysica Acta - General Subjects*, **2019**, 1863, 1015-1026	4	8
259	Biochemical characterization and low-resolution SAXS shape of a novel GH11 exo-1,4-β-xylanase identified in a microbial consortium. *Applied Microbiology and Biotechnology*, **2019**, 103, 8035-8049	5.7	6
258	A novel thermostable GH5 β-xylosidase from Thermogemmatispora sp. T81. *New Biotechnology*, **2019**, 53, 57-64	6.4	7
257	Multifaceted characterization of sugarcane bagasse under different steam explosion severity conditions leading to distinct enzymatic hydrolysis yields. *Industrial Crops and Products*, **2019**, 139, 111542	5.9	16
256	SAXSMoW 2.0: Online calculator of the molecular weight of proteins in dilute solution from experimental SAXS data measured on a relative scale. *Protein Science*, **2019**, 28, 454-463	6.3	66
255	Biochemical characterization and low-resolution SAXS structure of two-domain endoglucanase BlCel9 from Bacillus licheniformis. *Applied Microbiology and Biotechnology*, **2019**, 103, 1275-1287	5.7	3
254	Exploring oyster mushroom (Pleurotus ostreatus) substrate preparation by varying phase I composting time: changes in bacterial communities and physicochemical composition of biomass impacting mushroom yields. *Journal of Applied Microbiology*, **2019**, 126, 931-944	4.7	8
253	Functional characterization and comparative analysis of two heterologous endoglucanases from diverging subfamilies of glycosyl hydrolase family 45. *Enzyme and Microbial Technology*, **2019**, 120, 23-35	3.8	15
252	Cellulose fiber size defines efficiency of enzymatic hydrolysis and impacts degree of synergy between endo- and exoglucanases. *Cellulose*, **2018**, 25, 1865-1881	5.5	7
251	Biochemical characterization, low-resolution SAXS structure and an enzymatic cleavage pattern of BlCel48 from Bacillus licheniformis. *International Journal of Biological Macromolecules*, **2018**, 111, 302-310	7.9	4
250	Biochemical and biophysical characterization of novel GH10 xylanase prospected from a sugar cane bagasse compost-derived microbial consortia. *International Journal of Biological Macromolecules*, **2018**, 109, 560-568	7.9	12
249	Structural and compositional changes in sugarcane bagasse subjected to hydrothermal and organosolv pretreatments and their impacts on enzymatic hydrolysis. *Industrial Crops and Products*, **2018**, 113, 64-74	5.9	63
248	Structural and biochemical characterization of a GH3 β-glucosidase from the probiotic bacteria Bifidobacterium adolescentis. *Biochimie*, **2018**, 148, 107-115	4.6	14
247	Biochemical characterization and low-resolution SAXS structure of an exo-polygalacturonase from Bacillus licheniformis. *New Biotechnology*, **2018**, 40, 268-274	6.4	5
246	Structural insights into β-glucosidase transglycosylation based on biochemical, structural and computational analysis of two GH1 enzymes from Trichoderma harzianum. *New Biotechnology*, **2018**, 40, 218-227	6.4	27

245	Defining functional diversity for lignocellulose degradation in a microbial community using multi-omics studies. *Biotechnology for Biofuels*, **2018**, 11, 166	7.8	29
244	Structure, computational and biochemical analysis of PcCel45A endoglucanase from Phanerochaete chrysosporium and catalytic mechanisms of GH45 subfamily C members. *Scientific Reports*, **2018**, 8, 3678	4.9	13
243	Functional characterization of a lytic polysaccharide monooxygenase from the thermophilic fungus Myceliophthora thermophila. *PLoS ONE*, **2018**, 13, e0202148	3.7	29
242	Biochemical and structural insights into a thermostable cellobiohydrolase from Myceliophthora thermophila. *FEBS Journal*, **2018**, 285, 559-579	5.7	17
241	Hemocyanin facilitates lignocellulose digestion by wood-boring marine crustaceans. *Nature Communications*, **2018**, 9, 5125	17.4	16
240	Low-resolution envelope, biophysical analysis and biochemical characterization of a short-chain specific and halotolerant carboxylesterase from Bacillus licheniformis. *International Journal of Biological Macromolecules*, **2018**, 120, 1893-1905	7.9	6
239	Characterization of a New Glyoxal Oxidase from the Thermophilic Fungus Myceliophthora thermophila M77: Hydrogen Peroxide Production Retained in 5-Hydroxymethylfurfural Oxidation. *Catalysts*, **2018**, 8, 476	4	12
238	Analysis of carbohydrate-active enzymes in Thermogemmatispora sp. strain T81 reveals carbohydrate degradation ability. *Canadian Journal of Microbiology*, **2018**, 64, 992-1003	3.2	2
237	GH43 endo-arabinanase from Bacillus licheniformis: Structure, activity and unexpected synergistic effect on cellulose enzymatic hydrolysis. *International Journal of Biological Macromolecules*, **2018**, 117, 7-16	7.9	6
236	The effect of lime pre-treatments of date palm leaves on delignification and in vitro rumen degradability. *Journal of Agricultural Science*, **2017**, 155, 184-190	1	5
235	Cloning, heterologous expression and biochemical characterization of a non-specific endoglucanase family 12 from Aspergillus terreus NIH2624. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2017**, 1865, 395-403	4	27
234	Ionic Diodes Based on Regenerated Cellulose Films Deposited Asymmetrically onto a Microhole. *ChemistrySelect*, **2017**, 2, 871-875	1.8	7
233	Short communication: investigating the effect of saffron (Crocus sativus L.) nano-sizing on its colour extraction efficiency: a preliminary study. *Natural Product Research*, **2017**, 31, 2308-2311	2.3	2
232	Thermal adaptation strategies of the extremophile bacterium Thermus filiformis based on multi-omics analysis. *Extremophiles*, **2017**, 21, 775-788	3	16
231	On the subtle tuneability of cellulose hydrogels: implications for binding of biomolecules demonstrated for CBM 1. *Journal of Materials Chemistry B*, **2017**, 5, 3879-3887	7.3	22
230	Potential of oleaginous yeast Trichosporon sp., for conversion of sugarcane bagasse hydrolysate into biodiesel. *Bioresource Technology*, **2017**, 242, 161-168	11	30
229	Structural diversity of carbohydrate esterases. *Biotechnology Research and Innovation*, **2017**, 1, 35-51	10.1	59
228	Crystal structure of a small heat-shock protein from Xylella fastidiosa reveals a distinct high-order structure. *Acta Crystallographica Section F, Structural Biology Communications*, **2017**, 73, 222-227	1.1	7

227	Structural and biochemical data of GH1 β-glucosidases. *Data in Brief*, **2017**, 15, 340-343	1.2	3
226	Targeted metatranscriptomics of compost-derived consortia reveals a GH11 exerting an unusual exo-1,4-β-xylanase activity. *Biotechnology for Biofuels*, **2017**, 10, 254	7.8	23
225	Cellulose ionics: switching ionic diode responses by surface charge in reconstituted cellulose films. *Analyst, The*, **2017**, 142, 3707-3714	5	12
224	Conformational variability of the stationary phase survival protein E from Xylella fastidiosa revealed by X-ray crystallography, small-angle X-ray scattering studies, and normal mode analysis. *Proteins: Structure, Function and Bioinformatics*, **2017**, 85, 1931-1943	4.2	
223	Revealing the insoluble metasecretome of lignocellulose-degrading microbial communities. *Scientific Reports*, **2017**, 7, 2356	4.9	23
222	An alternative conformation of ERβ bound to estradiol reveals H12 in a stable antagonist position. *Scientific Reports*, **2017**, 7, 3509	4.9	22
221	Pre-treatment of sugarcane bagasse with a combination of sodium hydroxide and lime for improving the ruminal degradability: optimization of process parameters using response surface methodology. *Journal of Applied Animal Research*, **2016**, 44, 287-296	1.7	13
220	A Novel Carbohydrate-binding Module from Sugar Cane Soil Metagenome Featuring Unique Structural and Carbohydrate Affinity Properties. *Journal of Biological Chemistry*, **2016**, 291, 23734-23743	5.4	13
219	Molecular characterization of a family 5 glycoside hydrolase suggests an induced-fit enzymatic mechanism. *Scientific Reports*, **2016**, 6, 23473	4.9	17
218	Biophysical and biochemical studies of a major endoglucanase secreted by Xanthomonas campestris pv. campestris. *Enzyme and Microbial Technology*, **2016**, 91, 1-7	3.8	10
217	Structural dataset for the PPARγ V290M mutant. *Data in Brief*, **2016**, 7, 1430-1437	1.2	1
216	HTP-OligoDesigner: An Online Primer Design Tool for High-Throughput Gene Cloning and Site-Directed Mutagenesis. *Journal of Computational Biology*, **2016**, 23, 27-9	1.7	4
215	Design of an enzyme cocktail consisting of different fungal platforms for efficient hydrolysis of sugarcane bagasse: Optimization and synergism studies. *Biotechnology Progress*, **2016**, 32, 1222-1229	2.8	20
214	Crystal structure of a putative exo-β-1,3-galactanase from Bifidobacterium bifidum S17. *Acta Crystallographica Section F, Structural Biology Communications*, **2016**, 72, 288-93	1.1	2
213	Nutrient availability shapes the microbial community structure in sugarcane bagasse compost-derived consortia. *Scientific Reports*, **2016**, 6, 38781	4.9	41
212	Non-productive adsorption of bacterial β-glucosidases on lignins is electrostatically modulated and depends on the presence of fibronection type III-like domain. *Enzyme and Microbial Technology*, **2016**, 87-88, 1-8	3.8	10
211	Biochemical Characterization and Low-Resolution SAXS Molecular Envelope of GH1 β-Glycosidase from Saccharophagus degradans. *Molecular Biotechnology*, **2016**, 58, 777-788	3	3
210	Crystal structure of β-1-6-galactosidase from Bifidobacterium bifidum S17: trimeric architecture, molecular determinants of the enzymatic activity and its inhibition by β-galactose. *FEBS Journal*, **2016**, 283, 4097-4112	5.7	17

209	Efficient sugar production from sugarcane bagasse by microwave assisted acid and alkali pretreatment. *Biomass and Bioenergy*, **2016**, 93, 269-278	5.3	87
208	Functional Characterization and Low-Resolution Structure of an Endoglucanase Cel45A from the Filamentous Fungus Neurospora crassa OR74A: Thermostable Enzyme with High Activity Toward Lichenan and Glucan. *Molecular Biotechnology*, **2015**, 57, 574-88	3	11
207	A Novel Member of GH16 Family Derived from Sugarcane Soil Metagenome. *Applied Biochemistry and Biotechnology*, **2015**, 177, 304-17	3.2	11
206	Recombinant Trichoderma harzianum endoglucanase I (Cel7B) is a highly acidic and promiscuous carbohydrate-active enzyme. *Applied Microbiology and Biotechnology*, **2015**, 99, 9591-604	5.7	23
205	Sugarcane waste as a valuable source of lipophilic molecules. *Industrial Crops and Products*, **2015**, 76, 95-103	5.9	45
204	Different binding and recognition modes of GL479, a dual agonist of Peroxisome Proliferator-Activated Receptor . *Journal of Structural Biology*, **2015**, 191, 332-40	3.4	30
203	Cloning, purification, crystallization and preliminary X-ray studies of a carbohydrate-binding module from family 64 (StX). *Acta Crystallographica Section F, Structural Biology Communications*, **2015**, 71, 311-4	1.1	1
202	Combination of Sodium Hydroxide and Lime as a Pretreatment for Conversion of Date Palm Leaves into a Promising Ruminant Feed: An Optimization Approach. *Waste and Biomass Valorization*, **2015**, 6, 243-252	3.2	8
201	Response to Moras et al. *Trends in Biochemical Sciences*, **2015**, 40, 290-2	10.3	1
200	Biomass as a Feedstock **2015**, 31-52		1
199	Xanthomonas campestris expansin-like X domain is a structurally disordered beta-sheet macromolecule capable of synergistically enhancing enzymatic efficiency of cellulose hydrolysis. *Biotechnology Letters*, **2015**, 37, 2419-26	3	9
198	Nuclear receptor full-length architectures: confronting myth and illusion with high resolution. *Trends in Biochemical Sciences*, **2015**, 40, 16-24	10.3	52
197	Quantitative (13)C MultiCP solid-state NMR as a tool for evaluation of cellulose crystallinity index measured directly inside sugarcane biomass. *Biotechnology for Biofuels*, **2015**, 8, 110	7.8	61
196	Mechanisms of peroxisome proliferator activated receptor regulation by non-steroidal anti-inflammatory drugs. *Nuclear Receptor Signaling*, **2015**, 13, e004	1	47
195	Draft Genome Sequence of the Thermophile Thermus filiformis ATCC 43280, Producer of Carotenoid-(Di)glucoside-Branched Fatty Acid (Di)esters and Source of Hyperthermostable Enzymes of Biotechnological Interest. *Genome Announcements*, **2015**, 3,		3
194	Crystal structure analysis of peroxidase from the palm tree Chamaerops excelsa. *Biochimie*, **2015**, 111, 58-69	4.6	14
193	RXR agonist modulates TR: corepressor dissociation upon 9-cis retinoic acid treatment. *Molecular Endocrinology*, **2015**, 29, 258-73		17
192	Evaluating the Composition and Processing Potential of Novel Sources of Brazilian Biomass for Sustainable Biorenewables Production **2015**, 21-63		1

191	Isolation and characterization of a β-galactosidase from a new Amazon forest strain of Aspergillus niger as a potential accessory enzyme for biomass conversion. *Biocatalysis and Biotransformation*, **2014**, 32, 13-22	2.5	7
190	Insights into the structure and function of fungal β-mannosidases from glycoside hydrolase family 2 based on multiple crystal structures of the Trichoderma harzianum enzyme. *FEBS Journal*, **2014**, 281, 4165-78	5.7	17
189	Family 1 carbohydrate binding-modules enhance saccharification rates. *AMB Express*, **2014**, 4, 36	4.1	24
188	Side by Side Comparison of Chemical Compounds Generated by Aqueous Pretreatments of Maize Stover, Miscanthus and Sugarcane Bagasse. *Bioenergy Research*, **2014**, 7, 1466-1480	3.1	14
187	Multi-scale structural and chemical analysis of sugarcane bagasse in the process of sequential acid-base pretreatment and ethanol production by Scheffersomyces shehatae and Saccharomyces cerevisiae. *Biotechnology for Biofuels*, **2014**, 7, 63	7.8	103
186	Evaluating the composition and processing potential of novel sources of Brazilian biomass for sustainable biorenewables production. *Biotechnology for Biofuels*, **2014**, 7, 10	7.8	65
185	Nanostructured sensors containing immobilized nuclear receptors for thyroid hormone detection. *Journal of Biomedical Nanotechnology*, **2014**, 10, 744-50	4	3
184	Sets of covariant residues modulate the activity and thermal stability of GH1 β-glucosidases. *PLoS ONE*, **2014**, 9, e96627	3.7	10
183	The characterization of the endoglucanase Cel12A from Gloeophyllum trabeum reveals an enzyme highly active on β-glucan. *PLoS ONE*, **2014**, 9, e108393	3.7	19
182	SAXS Studies of the Endoglucanase Cel12A from Show Its Monomeric Structure and Reveal the Influence of Temperature on the Structural Stability of the Enzyme. *Materials*, **2014**, 7, 5202-5211	3.5	2
181	Cloning, purification, crystallization and preliminary X-ray studies of a carbohydrate-binding module (CBM_E1) derived from sugarcane soil metagenome. *Acta Crystallographica Section F, Structural Biology Communications*, **2014**, 70, 1232-5	1.1	2
180	Identification of a new hormone-binding site on the surface of thyroid hormone receptor. *Molecular Endocrinology*, **2014**, 28, 534-45		31
179	Nuclear magnetic resonance investigation of water accessibility in cellulose of pretreated sugarcane bagasse. *Biotechnology for Biofuels*, **2014**, 7, 127	7.8	21
178	Expression, purification, crystallization and preliminary X-ray diffraction analysis of the pectin methylesterase from the sugar cane weevil Sphenophorus levis. *Acta Crystallographica Section F, Structural Biology Communications*, **2014**, 70, 331-4	1.1	1
177	Expression, purification, crystallization and preliminary X-ray diffraction analysis of Aspergillus terreus endo-β1,4-glucanase from glycoside hydrolase family 12. *Acta Crystallographica Section F, Structural Biology Communications*, **2014**, 70, 267-70	1.1	6
176	High-throughput cloning, expression and purification of glycoside hydrolases using Ligation-Independent Cloning (LIC). *Protein Expression and Purification*, **2014**, 99, 35-42	2	34
175	1 H NMR investigation of water accessibility in cellulose of pretreated sugarcane bagasse. *Biotechnology for Biofuels*, **2014**, 7, 127	7.8	23
174	Transcriptome profile of Trichoderma harzianum IOC-3844 induced by sugarcane bagasse. *PLoS ONE*, **2014**, 9, e88689	3.7	24

173	Effects of pretreatment on morphology, chemical composition and enzymatic digestibility of eucalyptus bark: a potentially valuable source of fermentable sugars for biofuel production - part 1. *Biotechnology for Biofuels*, **2013**, 6, 75	7.8	87
172	Mapping the lignin distribution in pretreated sugarcane bagasse by confocal and fluorescence lifetime imaging microscopy. *Biotechnology for Biofuels*, **2013**, 6, 43	7.8	46
171	Structure-based identification of novel PPAR gamma ligands. *Bioorganic and Medicinal Chemistry Letters*, **2013**, 23, 5795-802	2.9	19
170	Small-angle X-ray scattering and structural modeling of full-length: cellobiohydrolase I from Trichoderma harzianum. *Cellulose*, **2013**, 20, 1573-1585	5.5	10
169	Aspergillus niger β-glucosidase has a cellulase-like tadpole molecular shape: insights into glycoside hydrolase family 3 (GH3) β-glucosidase structure and function. *Journal of Biological Chemistry*, **2013**, 288, 32991-3005	5.4	49
168	Joint X-ray crystallographic and molecular dynamics study of cellobiohydrolase I from Trichoderma harzianum: deciphering the structural features of cellobiohydrolase catalytic activity. *FEBS Journal*, **2013**, 280, 56-69	5.7	36
167	Molecular mechanism of peroxisome proliferator-activated receptor α activation by WY14643: a new mode of ligand recognition and receptor stabilization. *Journal of Molecular Biology*, **2013**, 425, 2878-93	6.5	71
166	Inhibition of human transthyretin aggregation by non-steroidal anti-inflammatory compounds: a structural and thermodynamic analysis. *International Journal of Molecular Sciences*, **2013**, 14, 5284-311	6.3	17
165	Expression, purification, crystallization and preliminary X-ray diffraction analysis of Bifidobacterium adolescentis xylose isomerase. *Acta Crystallographica Section F: Structural Biology Communications*, **2013**, 69, 588-91		
164	Crystallization and preliminary X-ray diffraction analysis of a new xyloglucanase from Xanthomonas campestris pv. campestris. *Acta Crystallographica Section F: Structural Biology Communications*, **2013**, 69, 676-8		
163	Crystallization and preliminary diffraction analysis of the catalytic domain of major extracellular endoglucanase from Xanthomonas campestris pv. campestris. *Acta Crystallographica Section F: Structural Biology Communications*, **2013**, 69, 137-40		2
162	X-ray structure and molecular dynamics simulations of endoglucanase 3 from Trichoderma harzianum: structural organization and substrate recognition by endoglucanases that lack cellulose binding module. *PLoS ONE*, **2013**, 8, e59069	3.7	27
161	Structural features of lignin obtained at different alkaline oxidation conditions from sugarcane bagasse. *Industrial Crops and Products*, **2012**, 35, 61-69	5.9	53
160	Substrate specificity of the Chamaerops excelsa palm tree peroxidase. A steady-state kinetic study. *Journal of Molecular Catalysis B: Enzymatic*, **2012**, 74, 103-108		10
159	Crystallization and preliminary X-ray diffraction analysis of endoglucanase III from Trichoderma harzianum. *Acta Crystallographica Section F: Structural Biology Communications*, **2012**, 68, 306-9		6
158	Effect of pH and temperature on the global compactness, structure, and activity of cellobiohydrolase Cel7A from Trichoderma harzianum. *European Biophysics Journal*, **2012**, 41, 89-98	1.9	20
157	Fluorescence spectroscopy as a tool to detect and evaluate glucocorticoid-induced skin atrophy. *Lasers in Medical Science*, **2012**, 27, 1059-65	3.1	5
156	Flavonoid interactions with human transthyretin: combined structural and thermodynamic analysis. *Journal of Structural Biology*, **2012**, 180, 143-53	3.4	35

155	Structural insights into human peroxisome proliferator activated receptor delta (PPAR-delta) selective ligand binding. *PLoS ONE*, **2012**, 7, e33643	3.7	35
154	Medium chain fatty acids are selective peroxisome proliferator activated receptor (PPAR) activators and pan-PPAR partial agonists. *PLoS ONE*, **2012**, 7, e36297	3.7	121
153	Mode of peroxisome proliferator-activated receptor activation by luteolin. *Molecular Pharmacology*, **2012**, 81, 788-99	4.3	73
152	Dissecting structure-function-stability relationships of a thermostable GH5-CBM3 cellulase from Bacillus subtilis 168. *Biochemical Journal*, **2012**, 441, 95-104	3.8	65
151	Low-resolution molecular models reveal the oligomeric state of the PPAR and the conformational organization of its domains in solution. *PLoS ONE*, **2012**, 7, e31852	3.7	20
150	The binding of synthetic triiodo l-thyronine analogs to human transthyretin: molecular basis of cooperative and non-cooperative ligand recognition. *Journal of Structural Biology*, **2011**, 173, 323-32	3.4	11
149	Helix 12 dynamics and thyroid hormone receptor activity: experimental and molecular dynamics studies of Ile280 mutants. *Journal of Molecular Biology*, **2011**, 412, 882-93	6.5	14
148	Enzymes in Bioenergy **2011**, 97-113		8
147	Chemical and morphological characterization of sugarcane bagasse submitted to a delignification process for enhanced enzymatic digestibility. *Biotechnology for Biofuels*, **2011**, 4, 54	7.8	304
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