Ossi Turunen

List of Publications by Year
in descending order

58 papers	2,247 citations	257450 24 h-index	223800 46 g-index
59 all docs	59 docs citations	59 times ranked	2042 citing authors

#	Article	IF	Citations
1	ICAM-2 redistributed by ezrin as a target for killer cells. Nature, 1996, 382, 265-268.	27.8	220
2	The ezrin protein family: membrane-cytoskeleton interactions and disease associations. Current Opinion in Cell Biology, 1997, 9, 659-666.	5.4	191
3	Three-dimensional structures of thermophilic beta-1,4-xylanases from Chaetomium thermophilum and Nonomuraea flexuosa. Comparison of twelve xylanases in relation to their thermal stability. FEBS Journal, 2003, 270, 1399-1412.	0.2	188
4	Engineering of multiple arginines into the Ser/Thr surface of Trichoderma reesei endo-1,4-Î²-xylanase II increases the thermotolerance and shifts the pH optimum towards alkaline pH. Protein Engineering, Design and Selection, 2002, 15, 141-145.	2.1	131
5	A combination of weakly stabilizing mutations with a disulfide bridge in the Î±-helix region of Trichoderma reesei endo-1,4-Î²-xylanase II increases the thermal stability through synergism. Journal of Biotechnology, 2001, 88, 37-46.	3.8	109
6	Improved thermal performance of Thermomyces lanuginosus GH11 xylanase by engineering of an N-terminal disulfide bridge. Bioresource Technology, 2012, 112, 275-279.	9.6	96
7	Thermostability Improvement of a Streptomyces Xylanase by Introducing Proline and Glutamic Acid Residues. Applied and Environmental Microbiology, 2014, 80, 2158-2165.	3.1	94
8	A de novo designed N-terminal disulphide bridge stabilizes the Trichoderma reesei endo-1,4-Î²-xylanase II. Journal of Biotechnology, 2004, 108, 137-143.	3.8	84
9	The crystal structure of acidic Î²-galactosidase from Aspergillus oryzae. International Journal of Biological Macromolecules, 2013, 60, 109-115.	7.5	69
10	Influence of pH on the production of xylanases by Trichoderma reesei Rut C-30. Process Biochemistry, 2004, 39, 731-736.	3.7	61
11	Engineering the thermostability of Trichoderma reesei endo-1,4-?-xylanase II by combination of disulphide bridges. Extremophiles, 2004, 8, 393-400.	2.3	57
12	Protein engineering: opportunities and challenges. Applied Microbiology and Biotechnology, 2007, 75, 1225-1232.	3.6	56
13	Structure-function relationships in the ezrin family and the effect of tumor-associated point mutations in neurofibromatosis 2 protein. BBA - Proteins and Proteomics, 1998, 1387, 1-16.	2.1	48
14	Thermostabilization of extremophilic Dictyoglomus thermophilum GH11 xylanase by an N-terminal disulfide bridge and the effect of ionic liquid [emim]OAc on the enzymatic performance. Enzyme and Microbial Technology, 2013, 53, 414-419.	3.2	48
15	Xylanase production by Trichoderma reesei Rut C-30 grown on L-arabinose-rich plant hydrolysates. Bioresource Technology, 2005, 96, 753-759.	9.6	47
16	Crystal structures of Trichoderma reesei Î²-galactosidase reveal conformational changes in the active site. Journal of Structural Biology, 2011, 174, 156-163.	2.8	47
17	Elucidation of the Molecular Basis for Arabinoxylan-Debranching Activity of a Thermostable Family GH62 Î±- <scp>l</scp> -Arabinofuranosidase from Streptomyces thermoviolaceus. Applied and Environmental Microbiology, 2014, 80, 5317-5329.	3.1	44
18	Effect of Glycosylation and Additional Domains on the Thermostability of a Family 10 Xylanase Produced by <i>Thermopolyspora flexuosa</i>. Applied and Environmental Microbiology, 2010, 76, 356-360.	3.1	41

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19	Characterization of the xylanase produced by submerged cultivation of Thermomyces lanuginosus DSM 10635. Enzyme and Microbial Technology, 2004, 35, 93-99.	3.2	38
20	Engineering the substrate specificity of xylose isomerase. Protein Engineering, Design and Selection, 2005, 17, 861-869.	2.1	35
21	Thermostability of endo-1,4-Î²-xylanase II from Trichoderma reesei studied by electrospray ionization Fourier-transform ion cyclotron resonance MS, hydrogen/deuterium-exchange reactions and dynamic light scattering. Biochemical Journal, 2001, 356, 453-460.	3.7	29
22	Engineered formate dehydrogenase from Chaetomium thermophilum, a promising enzymatic solution for biotechnical CO2 fixation. Biotechnology Letters, 2020, 42, 2251-2262.	2.2	29
23	<i>In silico</i>evidence for functional specialization after genome duplication in yeast. FEMS Yeast Research, 2009, 9, 16-31.	2.3	27
24	Hyperthermostable Thermotoga maritima xylanase XYN10B shows high activity at high temperatures in the presence of biomass-dissolving hydrophilic ionic liquids. Extremophiles, 2016, 20, 515-524.	2.3	25
25	Characterization of Mutant Xylanases Using Fourier Transform Ion Cyclotron Resonance Mass Spectrometry:â€‰ Stabilizing Contributions of Disulfide Bridges and N-Terminal Extensions. Biochemistry, 2004, 43, 9556-9566.	2.5	24
26	Functional effects of active site mutations in NAD+-dependent formate dehydrogenases on transformation of hydrogen carbonate to formate. Protein Engineering, Design and Selection, 2018, 31, 327-335.	2.1	24
27	Thermal behaviour and tolerance to ionic liquid [emim]OAc in GH10 xylanase from Thermoascus aurantiacus SL16W. Extremophiles, 2014, 18, 1023-1034.	2.3	23
28	New Insights into the Role of T3 Loop in Determining Catalytic Efficiency of GH28 Endo-Polygalacturonases. PLoS ONE, 2015, 10, e0135413.	2.5	21
29	Comparison of pulp species in IONCELL-P: selective hemicellulose extraction method with ionic liquids. Holzforschung, 2016, 70, 291-296.	1.9	21
30	The challenges of using NAD⁺-dependent formate dehydrogenases for CO₂conversion. Critical Reviews in Biotechnology, 2022, 42, 953-972.	9.0	21
31	Mucin MUC1 Is Seen in Cell Surface Protrusions Together with Ezrin in Immunoelectron Tomography and is Concentrated at Tips of Filopodial Protrusions in MCF-7 Breast Carcinoma Cells. Journal of Histochemistry and Cytochemistry, 2001, 49, 67-77.	2.5	20
32	Thermostability of endo-1,4-Î²-xylanase II from Trichoderma reesei studied by electrospray ionization Fourier-transform ion cyclotron resonance MS, hydrogen/deuterium-exchange reactions and dynamic light scattering. Biochemical Journal, 2001, 356, 453.	3.7	20
33	OUP accepted manuscript. Protein Engineering, Design and Selection, 2017, 30, 47-55.	2.1	19
34	Characterization of a recombinant alkaline thermostable Î²-mannanase and its application in eco-friendly ramie degumming. Process Biochemistry, 2017, 61, 73-79.	3.7	18
35	Stability and activity of Dictyoglomus thermophilum GH11 xylanase and its disulphide mutant at high pressure and temperature. Enzyme and Microbial Technology, 2015, 70, 66-71.	3.2	17
36	Activity and stability of hyperthermostable cellulases and xylanases in ionic liquids. Biocatalysis and Biotransformation, 2021, 39, 242-259.	2.0	17

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37	Stochastic boundary molecular dynamics simulation of l-ribose in the active site of Actinoplanes missouriensis xylose isomerase and its Val135Asn mutant with improved reaction rate. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2005, 1749, 65-73.	2.3	15
38	Enhancement of acetyl xylan esterase activity on cellulose acetate through fusion to a family 3 cellulose binding module. Enzyme and Microbial Technology, 2015, 79-80, 27-33.	3.2	15
39	High stability and low competitive inhibition of thermophilic Thermopolyspora flexuosa GH10 xylanase in biomass-dissolving ionic liquids. Applied Microbiology and Biotechnology, 2017, 101, 1487-1498.	3.6	15
40	Biochemical Characterization of Extracellular Cellulase from Tuber maculatum Mycelium Produced Under Submerged Fermentation. Applied Biochemistry and Biotechnology, 2017, 181, 772-783.	2.9	15
41	Effect of enzymatic high temperature prehydrolysis on the subsequent cellulose hydrolysis of steamâ€pretreated spruce in high solids concentration. Journal of Chemical Technology and Biotechnology, 2016, 91, 1844-1852.	3.2	13
42	Genomic structure of the human ezrin gene. Human Genetics, 1998, 103, 662-665.	3.8	12
43	Engineering the Thermotolerance and pH Optimum of Family 11 Xylanases by Site-Directed Mutagenesis. Methods in Enzymology, 2004, 388, 156-167.	1.0	12
44	Irreversible thermal denaturation of Trichoderma reesei endo-1,4-Î²-xylanase II and its three disulfide mutants characterized by differential scanning calorimetry. International Journal of Biological Macromolecules, 2008, 42, 75-80.	7.5	10
45	The cultivation of oak seedlings inoculated with Tuber aestivum Vittad. in the boreal region of Finland. Mycological Progress, 2014, 13, 373-380.	1.4	10
46	Characterization of a new acidic NAD + -dependent formate dehydrogenase from thermophilic fungus Chaetomium thermophilum. Journal of Molecular Catalysis B: Enzymatic, 2015, 122, 212-217.	1.8	10
47	Effect of acidic amino acids engineered into the active site cleft of <i>Thermopolyspora flexuosa</i> GH11 xylanase. Biotechnology and Applied Biochemistry, 2015, 62, 433-440.	3.1	10
48	Inhibition of hyperthermostable xylanases by superbase ionic liquids. Process Biochemistry, 2020, 95, 148-156.	3.7	10
49	Characterization of a versatile glycoside hydrolase Cel5M from <i>Pectobacterium carotovorum</i> HG-49 for ramie degumming. Textile Reseach Journal, 2020, 90, 1602-1615.	2.2	9
50	Effect of Metal Ions on the Activity of Ten NAD-Dependent Formate Dehydrogenases. Protein Journal, 2020, 39, 519-530.	1.6	7
51	Characterization of natural habitats and diversity of Libyan desert truffles. 3 Biotech, 2017, 7, 328.	2.2	6
52	High-temperature behavior of hyperthermostable Thermotoga maritima xylanase XYN10B after designed and evolved mutations. Applied Microbiology and Biotechnology, 2022, 106, 2017-2027.	3.6	5
53	<I>Tuber foetidum</I> found in Finland. Mycotaxon, 2011, 114, 127-133.	0.3	4
54	Effect of active site mutation on pH activity and transglycosylation of Sulfolobus acidocaldarius Î²-glycosidase. Journal of Molecular Catalysis B: Enzymatic, 2015, 118, 62-69.	1.8	3

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55	Screening of glycoside hydrolases and ionic liquids for fibre modification. Journal of Chemical Technology and Biotechnology, 2018, 93, 818-826.	3.2	3
56	Amino acid-functionalized carbon nanotube framework as a biomimetic catalyst for cleavage of glycosidic bonds. Bioinspiration and Biomimetics, 2019, 14, 036007.	2.9	2
57	Enhanced activity of hyperthermostable Pyrococcus horikoshii endoglucanase in superbase ionic liquids. Biotechnology Letters, 0, , .	2.2	2
58	Protein Engineering of Industrial Enzymes. , 2006, , 579-601.		0