

William S Adney

List of Publications by Year in descending order

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57
papers

7,321
citations

109321
35
h-index

182427
51
g-index

57
all docs

57
docs citations

57
times ranked

7353
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomass Recalcitrance: Engineering Plants and Enzymes for Biofuels Production. <i>Science</i> , 2007, 315, 804-807.	12.6	3,749
2	Cellulase digestibility of pretreated biomass is limited by cellulose accessibility. <i>Biotechnology and Bioengineering</i> , 2007, 98, 112-122.	3.3	457
3	Crystal Structure of Thermostable Family 5 Endocellulase E1 from <i>Acidothermus cellulolyticus</i> in Complex with Cellotetraose. <i>Biochemistry</i> , 1996, 35, 10648-10660.	2.5	236
4	Synergistic enhancement of cellobiohydrolase performance on pretreated corn stover by addition of xylanase and esterase activities. <i>Bioresource Technology</i> , 2008, 99, 4997-5005.	9.6	218
5	Can delignification decrease cellulose digestibility in acid pretreated corn stover?. <i>Cellulose</i> , 2009, 16, 677-686.	4.9	129
6	The impact of cell wall acetylation on corn stover hydrolysis by cellulolytic and xylanolytic enzymes. <i>Cellulose</i> , 2009, 16, 711-722.	4.9	126
7	Implications of cellobiohydrolase glycosylation for use in biomass conversion. <i>Biotechnology for Biofuels</i> , 2008, 1, 10.	6.2	118
8	Identification of Amino Acids Responsible for Processivity in a Family 1 Carbohydrate-Binding Module from a Fungal Cellulase. <i>Journal of Physical Chemistry B</i> , 2010, 114, 1447-1453.	2.6	116
9	Heterologous expression of glycosyl hydrolases in plants: a new departure for biofuels. <i>Trends in Biotechnology</i> , 2008, 26, 413-424.	9.3	115
10	Complete genome of the cellulolytic thermophile <i>Acidothermus cellulolyticus</i> 11B provides insights into its ecophysiological and evolutionary adaptations. <i>Genome Research</i> , 2009, 19, 1033-1043.	5.5	109
11	Harnessing glycosylation to improve cellulase activity. <i>Current Opinion in Biotechnology</i> , 2012, 23, 338-345.	6.6	107
12	Heterologous Expression and Extracellular Secretion of Cellulolytic Enzymes by <i>Zymomonas mobilis</i> . <i>Applied and Environmental Microbiology</i> , 2010, 76, 6360-6369.	3.1	99
13	The Metagenome of an Anaerobic Microbial Community Decomposing Poplar Wood Chips. <i>PLoS ONE</i> , 2012, 7, e36740.	2.5	98
14	The O-Glycosylated Linker from the <i>Trichoderma reesei</i> Family 7 Cellulase Is a Flexible, Disordered Protein. <i>Biophysical Journal</i> , 2010, 99, 3773-3781.	0.5	96
15	Hydrolysis of cellulose using ternary mixtures of purified cellulases. <i>Applied Biochemistry and Biotechnology</i> , 1998, 70-72, 395-403.	2.9	87
16	Molecular modeling suggests induced fit of Family I carbohydrate-binding modules with a broken-chain cellulose surface. <i>Protein Engineering, Design and Selection</i> , 2007, 20, 179-187.	2.1	79
17	Probing the role of N-linked glycans in the stability and activity of fungal cellobiohydrolases by mutational analysis. <i>Cellulose</i> , 2009, 16, 699-709.	4.9	79
18	The Energy Landscape for the Interaction of the Family 1 Carbohydrate-Binding Module and the Cellulose Surface is Altered by Hydrolyzed Glycosidic Bonds. <i>Journal of Physical Chemistry B</i> , 2009, 113, 10994-11002.	2.6	75

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19	Engineering enhanced cellobiohydrolase activity. <i>Nature Communications</i> , 2018, 9, 1186.	12.8	72
20	Probing Carbohydrate Product Expulsion from a Processive Cellulase with Multiple Absolute Binding Free Energy Methods. <i>Journal of Biological Chemistry</i> , 2011, 286, 18161-18169.	3.4	69
21	Expression and characterization of <i>Acidothermus cellulolyticus</i> E1 endoglucanase in transgenic duckweed <i>Lemna minor</i> 8627. <i>Bioresource Technology</i> , 2007, 98, 2866-2872.	9.6	67
22	Anaerobic digestion of lignocellulosic biomass and wastes. <i>Applied Biochemistry and Biotechnology</i> , 1991, 30, 165-183.	2.9	65
23	Advanced Bioethanol Production Technologies: A Perspective. <i>ACS Symposium Series</i> , 1997, , 2-45.	0.5	65
24	Computational Investigation of Glycosylation Effects on a Family 1 Carbohydrate-binding Module. <i>Journal of Biological Chemistry</i> , 2012, 287, 3147-3155.	3.4	64
25	Detecting cellulase penetration into corn stover cell walls by immuno-electron microscopy. <i>Biotechnology and Bioengineering</i> , 2009, 103, 480-489.	3.3	56
26	Heterologous protein expression in <i>Hypocrea jecorina</i> : A historical perspective and new developments. <i>Biotechnology Advances</i> , 2015, 33, 142-154.	11.7	55
27	Cloning and Expression of <i>Trichoderma reesei</i> Cellobiohydrolase I in <i>Pichia pastoris</i> . <i>Biotechnology Progress</i> , 1999, 15, 828-833.	2.6	53
28	Simultaneous saccharification and fermentation of pretreated hardwoods. <i>Applied Biochemistry and Biotechnology</i> , 1997, 62, 99-104.	2.9	52
29	Catalytically Enhanced Endocellulase Cel5A from <i>Acidothermus cellulolyticus</i> . <i>Applied Biochemistry and Biotechnology</i> , 2005, 121, 0129-0148.	2.9	49
30	Computational simulations of the <i>Trichoderma reesei</i> cellobiohydrolase I acting on microcrystalline cellulose II ² : the enzyme-substrate complex. <i>Carbohydrate Research</i> , 2009, 344, 1984-1992.	2.3	49
31	A new thermostable endoglucanase, <i>Acidothermus cellulolyticus</i> E1. <i>Applied Biochemistry and Biotechnology</i> , 1994, 45-46, 245-256.	2.9	48
32	Heterologous Expression of <i>Aspergillus niger</i> Î ² -d-Xylosidase (XInD): Characterization on Lignocellulosic Substrates. <i>Applied Biochemistry and Biotechnology</i> , 2008, 146, 57-68.	2.9	45
33	Isolation and characterization of two forms of Î ² -d-glucosidase from <i>Aspergillus niger</i> . <i>Applied Biochemistry and Biotechnology</i> , 1993, 39-40, 213-225.	2.9	42
34	Investigation of the Cell-Wall Loosening Protein Expansin as a Possible Additive in the Enzymatic Saccharification of Lignocellulosic Biomass. <i>Applied Biochemistry and Biotechnology</i> , 2000, 84-86, 217-224.	2.9	41
35	Bioprospecting metagenomics of decaying wood: mining for new glycoside hydrolases. <i>Biotechnology for Biofuels</i> , 2011, 4, 23.	6.2	40
36	Fungal glycoside hydrolases for saccharification of lignocellulose: outlook for new discoveries fueled by genomics and functional studies. <i>Cellulose</i> , 2009, 16, 687-697.	4.9	32

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37	Cloning and expression of full-length <i>Trichoderma reesei</i> cellobiohydrolase I cDNAs in <i>Escherichia coli</i> . <i>Applied Biochemistry and Biotechnology</i> , 1996, 57-58, 389-397.	2.9	29
38	The Unique Binding Mode of Cellulosomal CBM4 from <i>Clostridium thermocellum</i> Cellobiohydrolase A. <i>Journal of Molecular Biology</i> , 2010, 402, 374-387.	4.2	28
39	Molecular simulation evidence for processive motion of <i>Trichoderma reesei</i> Cel7A during cellulose depolymerization. <i>Chemical Physics Letters</i> , 2008, 460, 284-288.	2.6	27
40	Fungal genome sequencing and bioenergy. <i>Fungal Biology Reviews</i> , 2008, 22, 1-5.	4.7	27
41	Impact of <i>alg3</i> gene deletion on growth, development, pigment production, protein secretion, and functions of recombinant <i>Trichoderma reesei</i> cellobiohydrolases in <i>Aspergillus niger</i> . <i>Fungal Genetics and Biology</i> , 2013, 61, 120-132.	2.1	25
42	Use of a new membrane-reactor saccharification assay to evaluate the performance of celluloses under simulated ssf conditions. <i>Applied Biochemistry and Biotechnology</i> , 1997, 63-65, 585-595.	2.9	23
43	Synergism Between Purified Bacterial and Fungal Cellulases. <i>ACS Symposium Series</i> , 1996, , 113-141.	0.5	17
44	Cellulase Assays. <i>ACS Symposium Series</i> , 1994, , 218-235.	0.5	12
45	Heterologous Expression of <i>Trichoderma reesei</i> 1,4- β -D-Glucan Cellobiohydrolase (Cel 7A). <i>ACS Symposium Series</i> , 2003, , 403-437.	0.5	12
46	Biomass Conversion. , 2007, , 1449-1548.		10
47	Initial Approaches to Artificial Cellulase Systems for Conversion of Biomass to Ethanol. <i>ACS Symposium Series</i> , 1996, , 208-236.	0.5	9
48	Enzymes for Anaerobic Municipal Solid Waste Disposal. <i>ACS Symposium Series</i> , 1991, , 22-35.	0.5	8
49	Glycoside Hydrolase Gene Cluster of <i>Acidothermus cellulolyticus</i> . <i>ACS Symposium Series</i> , 2003, , 332-360.	0.5	8
50	Comparison of Protein Contents of Cellulase Preparations in a Worldwide Round-Robin Assay. <i>ACS Symposium Series</i> , 1996, , 256-271.	0.5	7
51	Biomass Conversion. , 2017, , 285-419.		7
52	Cloning and Heterologous Expression of the Gene Encoding a Family 7 Glycosyl Hydrolase from <i>Penicillium funiculosum</i> . <i>ACS Symposium Series</i> , 2004, , 170-193.	0.5	4
53	Understanding the Biomass Decay Community. , 0, , 454-479.		4
54	Energy Storage in Cellulase Linker Peptides?. <i>ACS Symposium Series</i> , 2010, , 119-134.	0.5	4

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55	Biomass Conversion. , 2012, , 1249-1322.		3
56	Expression of <i>Microbispora bispora</i> Bgl B β -D-Glucosidase in <i>Streptomyces lividans</i> . ACS Symposium Series, 1997, , 154-171.	0.5	0
57	Two Novel Alkalotolerant Dextranases from <i>Streptomyces anulatus</i> . ACS Symposium Series, 2000, , 222-235.	0.5	0