Qi Xu

List of Publications by Year
in descending order

37 papers	1,977 citations	304368 22 h-index	395343 33 g-index
38 all docs	38 docs citations	38 times ranked	2354 citing authors

#	Article	IF	Citations
1	Perspectives and new directions for the production of bioethanol using consolidated bioprocessing of lignocellulose. Current Opinion in Biotechnology, 2009, 20, 364-371.	3.3	278
2	Revealing Natureâ€™s Cellulase Diversity: The Digestion Mechanism of <i>Caldicellulosiruptor bescii</i> CelA. Science, 2013, 342, 1513-1516.	6.0	253
3	Microbial enzyme systems for biomass conversion: emerging paradigms. Biofuels, 2010, 1, 323-341.	1.4	175
4	Natural paradigms of plant cell wall degradation. Current Opinion in Biotechnology, 2009, 20, 330-338.	3.3	136
5	Dramatic performance of <i>Clostridium thermocellum</i> explained by its wide range of cellulase modalities. Science Advances, 2016, 2, e1501254.	4.7	99
6	Versatile derivatives of carbohydrate-binding modules for imaging of complex carbohydrates approaching the molecular level of resolution. BioTechniques, 2006, 41, 435-443.	0.8	89
7	A biophysical perspective on the cellulosome: new opportunities for biomass conversion. Current Opinion in Biotechnology, 2008, 19, 218-227.	3.3	86
8	The Cellulosome System of Acetivibrio cellulolyticus Includes a Novel Type of Adaptor Protein and a Cell Surface Anchoring Protein. Journal of Bacteriology, 2003, 185, 4548-4557.	1.0	84
9	Engineering enhanced cellobiohydrolase activity. Nature Communications, 2018, 9, 1186.	5.8	72
10	Architecture of the Bacteroides cellulosolvens Cellulosome: Description of a Cell Surface-Anchoring Scaffoldin and a Family 48 Cellulase. Journal of Bacteriology, 2004, 186, 968-977.	1.0	70
11	In Situ Imaging of Single Carbohydrate-Binding Modules on Cellulose Microfibrils. Journal of Physical Chemistry B, 2011, 115, 635-641.	1.2	60
12	Fatty alcohol production in Lipomyces starkeyi and Yarrowia lipolytica. Biotechnology for Biofuels, 2016, 9, 227.	6.2	52
13	A novel family of carbohydrate-binding modules identified withRuminococcus albusproteins. FEBS Letters, 2004, 566, 11-16.	1.3	50
14	Novel architecture of family-9 glycoside hydrolases identified in cellulosomal enzymes of<i>Acetivibrio cellulolyticus</i>and<i>Clostridium thermocellum</i>. FEMS Microbiology Letters, 2006, 254, 308-316.	0.7	50
15	Comparison of transcriptional profiles of Clostridium thermocellum grown on cellobiose and pretreated yellow poplar using RNA-Seq. Frontiers in Microbiology, 2014, 5, 142.	1.5	48
16	A Novel Acetivibrio cellulolyticus Anchoring Scaffoldin That Bears Divergent Cohesins. Journal of Bacteriology, 2004, 186, 5782-5789.	1.0	43
17	Does the cellulose-binding module move on the cellulose surface?. Cellulose, 2009, 16, 587-597.	2.4	40
18	Tracking dynamics of plant biomass composting by changes in substrate structure, microbial community, and enzyme activity. Biotechnology for Biofuels, 2012, 5, 20.	6.2	40

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19	Improving activity of minicellulosomes by integration of intra- and intermolecular synergies. Biotechnology for Biofuels, 2013, 6, 126.	6.2	37
20	Labeling the planar face of crystalline cellulose using quantum dots directed by type-I carbohydrate-binding modules. Cellulose, 2009, 16, 19-26.	2.4	29
21	The Unique Binding Mode of Cellulosomal CBM4 from Clostridium thermocellum Cellobiohydrolase A. Journal of Molecular Biology, 2010, 402, 374-387.	2.0	28
22	Microscopic analysis of corn fiber using starch- and cellulose-specific molecular probes. Biotechnology and Bioengineering, 2007, 98, 123-131.	1.7	24
23	Paradigmatic status of an endo- and exoglucanase and its effect on crystalline cellulose degradation. Biotechnology for Biofuels, 2012, 5, 78.	6.2	23
24	Ameliorating the Metabolic Burden of the Co-expression of Secreted Fungal Cellulases in a High Lipid-Accumulating Yarrowia lipolytica Strain by Medium C/N Ratio and a Chemical Chaperone. Frontiers in Microbiology, 2018, 9, 3276.	1.5	20
25	Photophysics of (CdSe)ZnS colloidal quantum dots in an aqueous environment stabilized with amino acids and genetically-modified proteins. Photochemical and Photobiological Sciences, 2007, 6, 1027-1033.	1.6	19
26	Expression and secretion of fungal endoglucanase II and chimeric cellobiohydrolase I in the oleaginous yeast Lipomyces starkeyi. Microbial Cell Factories, 2017, 16, 126.	1.9	14
27	Expression of an endoglucanaseâ€“cellobiohydrolase fusion protein in Saccharomyces cerevisiae, Yarrowia lipolytica, and Lipomyces starkeyi. Biotechnology for Biofuels, 2018, 11, 322.	6.2	13
28	Strategies to reduce endâ€product inhibition in family 48 glycoside hydrolases. Proteins: Structure, Function and Bioinformatics, 2016, 84, 295-304.	1.5	10
29	Cellulases For Biomass Conversion. , 2007, , 35-50.		7
30	Natural diversity of glycoside hydrolase family 48 exoglucanases: insights from structure. Biotechnology for Biofuels, 2017, 10, 274.	6.2	7
31	Ordered arrays of quantum dots using cellulosomal proteins. Industrial Biotechnology, 2005, 1, 198-206.	0.5	6
32	Production of Ethanol from Engineered Trichoderma reesei. , 2015, , 197-208.		6
33	Engineered carbohydrate-binding module (CBM) protein-suspended single-walled carbon nanotubes in water. Chemical Communications, 2009, , 337-339.	2.2	4
34	Chimeric cellobiohydrolase I expression, activity, and biochemical properties in three oleaginous yeast. Biotechnology for Biofuels, 2021, 14, 6.	6.2	4
35	Response to Comment on â€œRevealing Natureâ€™s Cellulase Diversity: The Digestion Mechanism of <i>Caldicellulosiruptor bescii</i> CelAâ€• Science, 2014, 344, 578-578.	6.0	1
36	Modeling the Cellulosome Using Multiscale Methods. ACS Symposium Series, 2010, , 75-98.	0.5	0

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37	Methods for Metabolic Engineering of a Filamentous Trichoderma reesei. Methods in Molecular Biology, 2020, 2096, 45-50.	0.4	0