Lee R Lynd

List of Publications by Year
in descending order

305 papers	25,903 citations	10986 71 h-index	6996 154 g-index
323 all docs	323 docs citations	323 times ranked	17138 citing authors

#	Article	IF	Citations
1	Assessing the impact of substrate-level enzyme regulations limiting ethanol titer in Clostridium thermocellum using a core kinetic model. Metabolic Engineering, 2022, 69, 286-301.	7.0	7
2	In vivo evolution of lactic acid hyper-tolerant Clostridium thermocellum. New Biotechnology, 2022, 67, 12-22.	4.4	7
3	A Single Nucleotide Change in the <i>polC</i> DNA Polymerase III in Clostridium thermocellum Is Sufficient To Create a Hypermutator Phenotype. Applied and Environmental Microbiology, 2022, 88, e0153121.	3.1	0
4	Toward low-cost biological and hybrid biological/catalytic conversion of cellulosic biomass to fuels. Energy and Environmental Science, 2022, 15, 938-990.	30.8	93
5	Declining carbohydrate solubilization with increasing solids loading during fermentation of cellulosic feedstocks by Clostridium thermocellum: documentationÂand diagnostic tests. , 2022, 15, 12.		4
6	Functional Analysis of H ⁺ -Pumping Membrane-Bound Pyrophosphatase, ADP-Glucose Synthase, and Pyruvate Phosphate Dikinase as Pyrophosphate Sources in Clostridium thermocellum. Applied and Environmental Microbiology, 2022, 88, AEM0185721.	3.1	6
7	Metaproteomics reveals enzymatic strategies deployed by anaerobic microbiomes to maintain lignocellulose deconstruction at high solids. Nature Communications, 2022, 13, .	12.8	12
8	Coculture with hemicellulose-fermenting microbes reverses inhibition of corn fiber solubilization by Clostridium thermocellum at elevated solids loadings. Biotechnology for Biofuels, 2021, 14, 24.	6.2	13
9	Inhibition of Pyruvate Kinase From Thermoanaerobacterium saccharolyticum by IMP Is Independent of the Extra-C Domain. Frontiers in Microbiology, 2021, 12, 628308.	3.5	2
10	Cross-national analysis of food security drivers: comparing results based on the Food Insecurity Experience Scale and Global Food Security Index. Food Security, 2021, 13, 1245-1261.	5.3	27
11	Laboratory Evolution and Reverse Engineering of Clostridium thermocellum for Growth on Glucose and Fructose. Applied and Environmental Microbiology, 2021, 87, .	3.1	9
12	Assessment of yield gaps on global grazedâ€only permanent pasture using climate binning. Global Change Biology, 2020, 26, 1820-1832.	9.5	11
13	Socio-environmental and land-use impacts of double-cropped maize ethanol in Brazil. Nature Sustainability, 2020, 3, 209-216.	23.7	25
14	Development of both type Iâ€“B and type II CRISPR/Cas genome editing systems in the cellulolytic bacterium Clostridium thermocellum. Metabolic Engineering Communications, 2020, 10, e00116.	3.6	60
15	The pentose phosphate pathway of cellulolytic clostridia relies on 6-phosphofructokinase instead of transaldolase. Journal of Biological Chemistry, 2020, 295, 1867-1878.	3.4	14
16	Technoeconomic and life-cycle analysis of single-step catalytic conversion of wet ethanol into fungible fuel blendstocks. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12576-12583.	7.1	27
17	Metabolic Fluxes of Nitrogen and Pyrophosphate in Chemostat Cultures of Clostridium thermocellum and Thermoanaerobacterium saccharolyticum. Applied and Environmental Microbiology, 2020, 86, .	3.1	7
18	Robust paths to net greenhouse gas mitigation and negative emissions via advanced biofuels. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21968-21977.	7.1	110

#	Article	IF	Citations
19	<i>In Vivo</i>Thermodynamic Analysis of Glycolysis in Clostridium thermocellum and Thermoanaerobacterium saccharolyticum Using¹³C and²H Tracers. MSystems, 2020, 5, .	3.8	31
20	Characterization of reduced carbohydrate solubilization during Clostridium thermocellum fermentation with high switchgrass concentrations. Biomass and Bioenergy, 2020, 139, 105623.	5.7	4
21	Developing a Cell-Free Extract Reaction (CFER) System in Clostridium thermocellum to Identify Metabolic Limitations to Ethanol Production. Frontiers in Energy Research, 2020, 8, .	2.3	5
22	Metabolic and evolutionary responses of Clostridium thermocellum to genetic interventions aimed at improving ethanol production. Biotechnology for Biofuels, 2020, 13, 40.	6.2	49
23	Conversion of phosphoenolpyruvate to pyruvate in Thermoanaerobacterium saccharolyticum. Metabolic Engineering Communications, 2020, 10, e00122.	3.6	10
24	Fermentation with continuous ball milling: Effectiveness at enhancing solubilization for several cellulosic feedstocks and comparative tolerance of several microorganisms. Biomass and Bioenergy, 2020, 134, 105468.	5.7	12
25	Development of a thermophilic coculture for corn fiber conversion to ethanol. Nature Communications, 2020, 11, 1937.	12.8	45
26	Methods for Metabolic Engineering of Thermoanaerobacterium saccharolyticum. Methods in Molecular Biology, 2020, 2096, 21-43.	0.9	2
27	Metabolic engineering of Clostridium thermocellum for n-butanol production from cellulose. Biotechnology for Biofuels, 2019, 12, 186.	6.2	58
28	Multiple levers for overcoming the recalcitrance of lignocellulosic biomass. Biotechnology for Biofuels, 2019, 12, 15.	6.2	47
29	Thermodynamic analysis of the pathway for ethanol production from cellobiose in Clostridium thermocellum. Metabolic Engineering, 2019, 55, 161-169.	7.0	44
30	A mutation in the AdhE alcohol dehydrogenase of Clostridium thermocellum increases tolerance to several primary alcohols, including isobutanol, n-butanol and ethanol. Scientific Reports, 2019, 9, 1736.	3.3	32
31	Characterization of the Clostridium thermocellum AdhE, NfnAB, ferredoxin and Pfor proteins for their ability to support high titer ethanol production in Thermoanaerobacterium saccharolyticum. Metabolic Engineering, 2019, 51, 32-42.	7.0	18
32	Expressing the Thermoanaerobacterium saccharolyticum pforA in engineered Clostridium thermocellum improves ethanol production. Biotechnology for Biofuels, 2018, 11, 242.	6.2	29
33	Rheological properties of corn stover slurries during fermentation by Clostridium thermocellum. Biotechnology for Biofuels, 2018, 11, 246.	6.2	14
34	Development and characterization of stable anaerobic thermophilic methanogenic microbiomes fermenting switchgrass at decreasing residence times. Biotechnology for Biofuels, 2018, 11, 243.	6.2	37
35	The redox-sensing protein Rex modulates ethanol production in Thermoanaerobacterium saccharolyticum. PLoS ONE, 2018, 13, e0195143.	2.5	10
36	Integrating pasture intensification and bioenergy crop expansion. , 2018, , 46-59.		1

#	Article	IF	Citations
37	Determining the roles of the three alcohol dehydrogenases (AdhA, AdhB and AdhE) in <i>Thermoanaerobacter ethanolicus</i> during ethanol formation. Journal of Industrial Microbiology and Biotechnology, 2017, 44, 745-757.	3.0	10
38	The role of bioenergy in a climate-changing world. Environmental Development, 2017, 23, 57-64.	4.1	120
39	Total global agricultural land footprint associated with UK food supply 1986â€“2011. Global Environmental Change, 2017, 43, 72-81.	7.8	53
40	Lignocellulose fermentation and residual solids characterization for senescent switchgrass fermentation by <i>Clostridium thermocellum</i> in the presence and absence of continuous <i>in situ</i> ball-milling. Energy and Environmental Science, 2017, 10, 1252-1261.	30.8	65
41	Glycolysis without pyruvate kinase in Clostridium thermocellum. Metabolic Engineering, 2017, 39, 169-180.	7.0	62
42	Cellulosic ethanol: status and innovation. Current Opinion in Biotechnology, 2017, 45, 202-211.	6.6	316
43	Lignocellulose deconstruction in the biosphere. Current Opinion in Chemical Biology, 2017, 41, 61-70.	6.1	110
44	The grand challenge of cellulosic biofuels. Nature Biotechnology, 2017, 35, 912-915.	17.5	132
45	Hydrogen isotope composition of Thermoanaerobacterium saccharolyticum lipids: Comparing wild type with a nfn- transhydrogenase mutant. Organic Geochemistry, 2017, 113, 239-241.	1.8	6
46	Development of a core Clostridium thermocellum kinetic metabolic model consistent with multiple genetic perturbations. Biotechnology for Biofuels, 2017, 10, 108.	6.2	35
47	The ethanol pathway from Thermoanaerobacterium saccharolyticum improves ethanol production in Clostridium thermocellum. Metabolic Engineering, 2017, 42, 175-184.	7.0	49
48	Engineering electron metabolism to increase ethanol production in Clostridium thermocellum. Metabolic Engineering, 2017, 39, 71-79.	7.0	58
49	Both adhE and a Separate NADPH-Dependent Alcohol Dehydrogenase Gene, adhA , Are Necessary for High Ethanol Production in Thermoanaerobacterium saccharolyticum. Journal of Bacteriology, 2017, 199, .	2.2	25
50	Enhanced ethanol formation by Clostridium thermocellum via pyruvate decarboxylase. Microbial Cell Factories, 2017, 16, 171.	4.0	29
51	Expression of adhA from different organisms in Clostridium thermocellum. Biotechnology for Biofuels, 2017, 10, 251.	6.2	4
52	Metabolome analysis reveals a role for glyceraldehyde 3-phosphate dehydrogenase in the inhibition of C. thermocellum by ethanol. Biotechnology for Biofuels, 2017, 10, 276.	6.2	27
53	Deletion of the hfsB gene increases ethanol production in Thermoanaerobacterium saccharolyticum and several other thermophilic anaerobic bacteria. Biotechnology for Biofuels, 2017, 10, 282.	6.2	13
54	Progress in understanding and overcoming biomass recalcitrance: a BioEnergy Science Center (BESC) perspective. Biotechnology for Biofuels, 2017, 10, 285.	6.2	21

#	Article	IF	Citations
55	Potential of Sugarcane in Modern Energy Development in Southern Africa. Frontiers in Energy Research, 2016, 4, .	2.3	8
56	Some like it hot. Chemistry and Industry (London), 2016, 80, 26-29.	0.0	0
57	Dramatic performance of <i>Clostridium thermocellum</i> explained by its wide range of cellulase modalities. Science Advances, 2016, 2, e1501254.	10.3	99
58	Cost competitive secondâ€generation ethanol production from hemicellulose in a Brazilian sugarcane biorefinery. Biofuels, Bioproducts and Biorefining, 2016, 10, 589-602.	3.7	38
59	Clostridium thermocellum releases coumaric acid during degradation of untreated grasses by the action of an unknown enzyme. Applied Microbiology and Biotechnology, 2016, 100, 2907-2915.	3.6	6
60	Nicotinamide cofactor ratios in engineered strains ofClostridium thermocellumandThermoanaerobacterium saccharolyticum. FEMS Microbiology Letters, 2016, 363, fnw091.	1.8	12
61	Ferredoxin:NAD ⁺ Oxidoreductase of Thermoanaerobacterium saccharolyticum and Its Role in Ethanol Formation. Applied and Environmental Microbiology, 2016, 82, 7134-7141.	3.1	28
62	Simultaneous achievement of high ethanol yield and titer in Clostridium thermocellum. Biotechnology for Biofuels, 2016, 9, 116.	6.2	116
63	Strain and bioprocess improvement of a thermophilic anaerobe for the production of ethanol from wood. Biotechnology for Biofuels, 2016, 9, 125.	6.2	50
64	Development of a plasmid-based expression system in Clostridium thermocellum and its use to screen heterologous expression of bifunctional alcohol dehydrogenases (adhEs). Metabolic Engineering Communications, 2016, 3, 120-129.	3.6	15
65	Biological lignocellulose solubilization: comparative evaluation of biocatalysts and enhancement via cotreatment. Biotechnology for Biofuels, 2016, 9, 8.	6.2	78
66	A markerless gene deletion and integration system for Thermoanaerobacter ethanolicus. Biotechnology for Biofuels, 2016, 9, 100.	6.2	16
67	Promiscuous plasmid replication in thermophiles: Use of a novel hyperthermophilic replicon for genetic manipulation of Clostridium thermocellum at its optimum growth temperature. Metabolic Engineering Communications, 2016, 3, 30-38.	3.6	15
68	Voices of biotech. Nature Biotechnology, 2016, 34, 270-275.	17.5	4
69	Physiological roles of pyruvate ferredoxin oxidoreductase and pyruvate formate-lyase in Thermoanaerobacterium saccharolyticum JW/SL-YS485. Biotechnology for Biofuels, 2015, 8, 138.	6.2	45
70	Draft Genome Sequence of the Cellulolytic and Xylanolytic Thermophile Clostridium clariflavum Strain 4-2a. Genome Announcements, 2015, 3, .	0.8	4
71	Cofactor Specificity of the Bifunctional Alcohol and Aldehyde Dehydrogenase (AdhE) in Wild-Type and Mutant Clostridium thermocellum and Thermoanaerobacteriumsaccharolyticum. Journal of Bacteriology, 2015, 197, 2610-2619.	2.2	56
72	Ethanol production by engineered thermophiles. Current Opinion in Biotechnology, 2015, 33, 130-141.	6.6	114

#	Article	IF	Citations
73	Bioenergy and African transformation. Biotechnology for Biofuels, 2015, 8, 18.	6.2	53
74	Development of a regulatable plasmid-based gene expression system for Clostridium thermocellum. Applied Microbiology and Biotechnology, 2015, 99, 7589-7599.	3.6	23
75	Coculture of Staphylococcus aureus with Pseudomonas aeruginosa Drives S. aureus towards Fermentative Metabolism and Reduced Viability in a Cystic Fibrosis Model. Journal of Bacteriology, 2015, 197, 2252-2264.	2.2	272
76	The need for biofuels as part of a low carbon energy future. Biofuels, Bioproducts and Biorefining, 2015, 9, 476-483.	3.7	107
77	Deletion of <i>nfnAB</i> in Thermoanaerobacterium saccharolyticum and Its Effect on Metabolism. Journal of Bacteriology, 2015, 197, 2920-2929.	2.2	32
78	Elimination of hydrogenase active site assembly blocks H2 production and increases ethanol yield in Clostridium thermocellum. Biotechnology for Biofuels, 2015, 8, 20.	6.2	96
79	Winter rye as a bioenergy feedstock: impact of crop maturity on composition, biological solubilization and potential revenue. Biotechnology for Biofuels, 2015, 8, 35.	6.2	30
80	Identifying promoters for gene expression in Clostridium thermocellum. Metabolic Engineering Communications, 2015, 2, 23-29.	3.6	52
81	The Bifunctional Alcohol and Aldehyde Dehydrogenase Gene, <i>adhE</i> , Is Necessary for Ethanol Production in Clostridium thermocellum and Thermoanaerobacterium saccharolyticum. Journal of Bacteriology, 2015, 197, 1386-1393.	2.2	77
82	Genome-scale resources for Thermoanaerobacterium saccharolyticum. BMC Systems Biology, 2015, 9, 30.	3.0	24
83	Elucidating central metabolic redox obstacles hindering ethanol production in Clostridium thermocellum. Metabolic Engineering, 2015, 32, 207-219.	7.0	38
84	Three cellulosomal xylanase genes in<i>Clostridium thermocellum</i> are regulated by both vegetative SigA (Ïƒ^A) and alternative SigI6 (Ïƒ^{I6}) factors. FEBS Letters, 2015, 589, 3133-3140.	2.8	19
85	Elimination of formate production in <i>Clostridium thermocellum</i>. Journal of Industrial Microbiology and Biotechnology, 2015, 42, 1263-1272.	3.0	28
86	Energy, sugar dilution, and economic analysis of hot water flowâ€through preâ€treatment for producing biofuel from sugarcane residues. Biofuels, Bioproducts and Biorefining, 2015, 9, 95-108.	3.7	14
87	Genetic Engineering of Corynebacteria. , 2014, , 225-237.		0
88	The Use of Enzymes for Nonaqueous Organic Transformations. , 2014, , 509-523.		0
89	Bacterial Cultivation for Production of Proteins and Other Biological Products. , 2014, , 132-144.		2
90	Genetic Manipulation of Clostridium. , 2014, , 238-261.		0

#	Article	IF	Citations
91	Selective Isolation of Actinobacteria. , 2014, , 13-27.		13
92	Enzymes from Extreme Environments. , 2014, , 43-61.		1
93	Cell-Based Screening Methods for Anti-Infective Compounds. , 2014, , 62-72.		0
94	Solid-Phase Fermentation: Aerobic and Anaerobic. , 2014, , 117-131.		0
95	Industrial Enzymes, Biocatalysis, and Enzyme Evolution. , 2014, , 439-439.		0
96	Biomass-Converting Enzymes and Their Bioenergy Applications. , 2014, , 495-508.		2
97	Manufacture of Mammalian Cell Biopharmaceuticals. , 2014, , 179-195.		0
98	Physiological and Methodological Aspects of Cellulolytic Microbial Cultures. , 2014, , 644-656.		2
99	Comparative analysis of the ability of Clostridium clariflavum strains and Clostridium thermocellumto utilize hemicellulose and unpretreated plant material. Biotechnology for Biofuels, 2014, 7, 136.	6.2	55
100	Simulated Performance of Reactor Configurations for Hotâ€Water Pretreatment of Sugarcane Bagasse. ChemSusChem, 2014, 7, 2721-2727.	6.8	2
101	OPTIMIZATION OF AFFINITY DIGESTION FOR THE ISOLATION OF CELLULOSOMES FROMClostridium thermocellum. Preparative Biochemistry and Biotechnology, 2014, 44, 206-216.	1.9	7
102	The exometabolome of Clostridium thermocellum reveals overflow metabolism at high cellulose loading. Biotechnology for Biofuels, 2014, 7, 155.	6.2	96
103	Comparative efficiency and driving range of light- and heavy-duty vehicles powered with biomass energy stored in liquid fuels or batteries. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3360-3364.	7.1	13
104	Cellulose fermentation by Clostridium thermocellum and a mixed consortium in an automated repetitive batch reactor. Bioresource Technology, 2014, 155, 50-56.	9.6	18
105	Metabolic engineering of Thermoanaerobacterium saccharolyticum for n-butanol production. Metabolic Engineering, 2014, 21, 17-25.	7.0	62
106	Fluid mechanics relevant to flow through pretreatment of cellulosic biomass. Bioresource Technology, 2014, 157, 278-283.	9.6	12
107	Development of a Multipoint Quantitation Method to Simultaneously Measure Enzymatic and Structural Components of the <i>Clostridium thermocellum</i> Cellulosome Protein Complex. Journal of Proteome Research, 2014, 13, 692-701.	3.7	11
108	Take a Closer Look: Biofuels Can Support Environmental, Economic and Social Goals. Environmental Science & Technology, 2014, 48, 7200-7203.	10.0	120

#	Article	IF	Citations
109	Profile of Secreted Hydrolases, Associated Proteins, and SlpA in Thermoanaerobacterium saccharolyticum during the Degradation of Hemicellulose. Applied and Environmental Microbiology, 2014, 80, 5001-5011.	3.1	27
110	The identification of four histidine kinases that influence sporulation in Clostridium thermocellum. Anaerobe, 2014, 28, 109-119.	2.1	33
111	Insect Cell Culture. , 2014, , 212-222.		3
112	Plant Cell Culture. , 2014, , 196-211.		0
113	Genetic Engineering Tools for Saccharomyces cerevisiae. , 2014, , 287-301.		2
114	Enzyme Promiscuity and Evolution of New Protein Functions. , 2014, , 524-538.		0
115	Genetic Manipulation of Myxobacteria. , 2014, , 262-272.		0
116	Genetic Engineering To Regulate Production of Secondary Metabolites in Streptomyces clavuligerus. , 2014, , 411-425.		0
117	Genetic Engineering of Myxobacterial Natural Product Biosynthetic Genes. , 2014, , 426-437.		0
118	Bioprocess Development. , 2014, , 549-562.		0
119	Accessing Microbial Communities Relevant to Biofuels Production. , 2014, , 565-576.		1
120	Genetics, Genetic Manipulation, and Approaches to Strain Improvement of Filamentous Fungi. , 2014, , 318-329.		26
121	Purification and Characterization of Proteins. , 2014, , 731-742.		1
122	Protein Expression in Nonconventional Yeasts. , 2014, , 302-317.		0
123	Metabolic Engineering of Escherichia coli for the Production of a Precursor to Artemisinin, an Antimalarial Drug. , 2014, , 364-379.		0
124	Bioreactor Automation. , 2014, , 719-730.		3
125	Increase in Ethanol Yield via Elimination of Lactate Production in an Ethanol-Tolerant Mutant of Clostridium thermocellum. PLoS ONE, 2014, 9, e86389.	2.5	60
126	Functional heterologous expression of an engineered full length CipA from Clostridium thermocellum in Thermoanaerobacterium saccharolyticum. Biotechnology for Biofuels, 2013, 6, 32.	6.2	29

#	Article	IF	Citations
127	Characterization of <i>Clostridium thermocellum</i> strains with disrupted fermentation end-product pathways. Journal of Industrial Microbiology and Biotechnology, 2013, 40, 725-734.	3.0	50
128	Tracking the cellulolytic activity of Clostridium thermocellum biofilms. Biotechnology for Biofuels, 2013, 6, 175.	6.2	25
129	Redirecting carbon flux through exogenous pyruvate kinase to achieve high ethanol yields in Clostridium thermocellum. Metabolic Engineering, 2013, 15, 151-158.	7.0	78
130	Exchange of type II dockerin-containing subunits of the<i>Clostridium thermocellum</i>cellulosome as revealed by SNAP-tags. FEMS Microbiology Letters, 2013, 338, 46-53.	1.8	8
131	Form and Function of Clostridium thermocellum Biofilms. Applied and Environmental Microbiology, 2013, 79, 231-239.	3.1	46
132	Kinetic modeling of xylan hydrolysis in co- and countercurrent liquid hot water flow-through pretreatments. Bioresource Technology, 2013, 130, 117-124.	9.6	26
133	Testing alternative kinetic models for utilization of crystalline cellulose (Avicel) by batch cultures ofClostridium thermocellum. Biotechnology and Bioengineering, 2013, 110, 2389-2394.	3.3	15
134	Genome Sequences of Industrially Relevant Saccharomyces cerevisiae Strain M3707, Isolated from a Sample of Distillers Yeast and Four Haploid Derivatives. Genome Announcements, 2013, 1, .	0.8	8
135	Atypical Glycolysis in Clostridium thermocellum. Applied and Environmental Microbiology, 2013, 79, 3000-3008.	3.1	92
136	Development and evaluation of methods to infer biosynthesis and substrate consumption in cultures of cellulolytic microorganisms. Biotechnology and Bioengineering, 2013, 110, 2380-2388.	3.3	36
137	Role of the CipA Scaffoldin Protein in Cellulose Solubilization, as Determined by Targeted Gene Deletion and Complementation in Clostridium thermocellum. Journal of Bacteriology, 2013, 195, 733-739.	2.2	34
138	Metabolic Engineering of <i>Thermoanaerobacterium thermosaccharolyticum</i> for Increased n-Butanol Production. Advances in Microbiology, 2013, 03, 46-51.	0.6	30
139	Effect of Exogenous Fibrolytic Enzyme Application on the Microbial Attachment and Digestion of Barley Straw In vitro. Asian-Australasian Journal of Animal Sciences, 2012, 25, 66-74.	2.4	22
140	Enhanced Microbial Utilization of Recalcitrant Cellulose by an <i>Ex Vivo</i> Cellulosome-Microbe Complex. Applied and Environmental Microbiology, 2012, 78, 1437-1444.	3.1	69
141	Complete Genome Sequence of Clostridium clariflavum DSM 19732. Standards in Genomic Sciences, 2012, 6, 104-115.	1.5	48
142	Characterization of Xylan Utilization and Discovery of a New Endoxylanase in Thermoanaerobacterium saccharolyticum through Targeted Gene Deletions. Applied and Environmental Microbiology, 2012, 78, 8441-8447.	3.1	19
143	Transformation of Clostridium Thermocellum by Electroporation. Methods in Enzymology, 2012, 510, 317-330.	1.0	124
144	Formation and characterization of non-growth states in Clostridium thermocellum: spores and L-forms. BMC Microbiology, 2012, 12, 180.	3.3	33

#	Article	IF	Citations
145	Dcm methylation is detrimental to plasmid transformation in Clostridium thermocellum. Biotechnology for Biofuels, 2012, 5, 30.	6.2	71
146	Ethanol and anaerobic conditions reversibly inhibit commercial cellulase activity in thermophilic simultaneous saccharification and fermentation (tSSF). Biotechnology for Biofuels, 2012, 5, 43.	6.2	15
147	Recent progress in consolidated bioprocessing. Current Opinion in Biotechnology, 2012, 23, 396-405.	6.6	536
148	Computational design and characterization of a temperature-sensitive plasmid replicon for gram positive thermophiles. Journal of Biological Engineering, 2012, 6, 5.	4.7	28
149	Integrated analysis of hydrothermal flow through pretreatment. Biotechnology for Biofuels, 2012, 5, 49.	6.2	21
150	A defined growth medium with very low background carbon for culturing<i>Clostridium thermocellum</i>. Journal of Industrial Microbiology and Biotechnology, 2012, 39, 943-947.	3.0	65
151	Closing the carbon balance for fermentation by Clostridium thermocellum (ATCC 27405). Bioresource Technology, 2012, 103, 293-299.	9.6	90
152	Bioenergy crop models: descriptions, data requirements, and future challenges. GCB Bioenergy, 2012, 4, 620-633.	5.6	79
153	Perspective: A new hope for Africa. Nature, 2011, 474, S20-S21.	27.8	44
154	A global conversation about energy from biomass: the continental conventions of the global sustainable bioenergy project. Interface Focus, 2011, 1, 271-279.	3.0	24
155	Lee Lynd. Nature Biotechnology, 2011, 29, 196-196.	17.5	0
156	Conversion for Avicel and AFEX pretreated corn stover by Clostridium thermocellum and simultaneous saccharification and fermentation: Insights into microbial conversion of pretreated cellulosic biomass. Bioresource Technology, 2011, 102, 8040-8045.	9.6	57
157	Mutant selection and phenotypic and genetic characterization of ethanol-tolerant strains of Clostridium thermocellum. Applied Microbiology and Biotechnology, 2011, 92, 641-652.	3.6	79
158	A Kinetic Model for Simultaneous Saccharification and Fermentation of Avicel With <i>Saccharomyces cerevisiae</i>. Biotechnology and Bioengineering, 2011, 108, 924-933.	3.3	37
159	Enzyme inactivation by ethanol and development of a kinetic model for thermophilic simultaneous saccharification and fermentation at 50â€‰Â°C with <i>Thermoanaerobacterium saccharolyticum</i> ALK2. Biotechnology and Bioengineering, 2011, 108, 1268-1278.	3.3	31
160	High Ethanol Titers from Cellulose by Using Metabolically Engineered Thermophilic, Anaerobic Microbes. Applied and Environmental Microbiology, 2011, 77, 8288-8294.	3.1	281
161	Cellulose- and Xylan-Degrading Thermophilic Anaerobic Bacteria from Biocompost. Applied and Environmental Microbiology, 2011, 77, 2282-2291.	3.1	105
162	Mutant alcohol dehydrogenase leads to improved ethanol tolerance in <i>Clostridium thermocellum</i>. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 13752-13757.	7.1	159

#	Article	IF	Citations
163	Reactor scale up for biological conversion of cellulosic biomass to ethanol. Bioprocess and Biosystems Engineering, 2010, 33, 485-493.	3.4	12
164	Global sustainable bioenergy project offers a new approach to key bioenergy issues. Biofuels, Bioproducts and Biorefining, 2010, 4, 8-11.	3.7	4
165	Enzymatic hydrolysis of waste cellulose. Biotechnology and Bioengineering, 2010, 105, 1-25.	3.3	27
166	Ethanol production from paper sludge by simultaneous saccharification and coâ€fermentation using recombinant xyloseâ€fermenting microorganisms. Biotechnology and Bioengineering, 2010, 107, 235-244.	3.3	60
167	Biomass Production in Switchgrass across the United States: Database Description and Determinants of Yield. Agronomy Journal, 2010, 102, 1158-1168.	1.8	232
168	Deletion of the Cel48S cellulase from <i>Clostridium thermocellum</i>. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17727-17732.	7.1	108
169	Make Way for Ethanol. Science, 2010, 330, 1176-1176.	12.6	24
170	Bioenergy: in search of clarity. Energy and Environmental Science, 2010, 3, 1150.	30.8	17
171	Diversity of Bacteria and Glycosyl Hydrolase Family 48 Genes in Cellulolytic Consortia Enriched from Thermophilic Biocompost. Applied and Environmental Microbiology, 2010, 76, 3545-3553.	3.1	63
172	Development of <i>pyrF-</i> Based Genetic System for Targeted Gene Deletion in <i>Clostridium thermocellum</i> and Creation of a <i>pta</i> Mutant. Applied and Environmental Microbiology, 2010, 76, 6591-6599.	3.1	195
173	Sequencing of Multiple Clostridial Genomes Related to Biomass Conversion and Biofuel Production. Journal of Bacteriology, 2010, 192, 6494-6496.	2.2	81
174	Natural Competence in <i>Thermoanaerobacter</i> and <i>Thermoanaerobacterium</i> Species. Applied and Environmental Microbiology, 2010, 76, 4713-4719.	3.1	93
175	Identification of the [FeFe]-Hydrogenase Responsible for Hydrogen Generation in <i>Thermoanaerobacterium saccharolyticum</i> and Demonstration of Increased Ethanol Yield via Hydrogenase Knockout. Journal of Bacteriology, 2009, 191, 6457-6464.	2.2	86
176	Biofuels: Steer Clear of Degraded Land. Science, 2009, 326, 1346-1346.	12.6	5
177	Responseâ€"Biofuels. Science, 2009, 326, 1346-1346.	12.6	3
178	Kinetic modeling of cellulosic biomass to ethanol via simultaneous saccharification and fermentation: Part II. Experimental validation using waste paper sludge and anticipation of CFD analysis. Biotechnology and Bioengineering, 2009, 102, 66-72.	3.3	23
179	Kinetic modeling of cellulosic biomass to ethanol via simultaneous saccharification and fermentation: Part I. Accommodation of intermittent feeding and analysis of staged reactors. Biotechnology and Bioengineering, 2009, 102, 59-65.	3.3	34
180	Simultaneous saccharification and coâ€fermentation of paper sludge to ethanol by <i>Saccharomyces cerevisiae</i> RWB222â€"Part I: Kinetic modeling and parameters. Biotechnology and Bioengineering, 2009, 104, 920-931.	3.3	42

#	Article	IF	Citations
181	Simultaneous saccharification and coâ€fermentation of paper sludge to ethanol by <i>Saccharomyces cerevisiae</i> RWB222. Part II: Investigation of discrepancies between predicted and observed performance at high solids concentration. Biotechnology and Bioengineering, 2009, 104, 932-938.	3.3	32
182	Largeâ€scale production, harvest and logistics of switchgrass (<i>Panicum virgatum L.</i>) â€" current technology and envisioning a mature technology. Biofuels, Bioproducts and Biorefining, 2009, 3, 124-141.	3.7	217
183	Projected mature technology scenarios for conversion of cellulosic biomass to ethanol with coproduction thermochemical fuels, power, and/or animal feed protein. Biofuels, Bioproducts and Biorefining, 2009, 3, 231-246.	3.7	59
184	Protein feeds coproduction in biomass conversion to fuels and chemicals. Biofuels, Bioproducts and Biorefining, 2009, 3, 219-230.	3.7	90
185	Coproduction of ethanol and power from switchgrass. Biofuels, Bioproducts and Biorefining, 2009, 3, 195-218.	3.7	87
186	The role of biomass in America's energy future: framing the analysis. Biofuels, Bioproducts and Biorefining, 2009, 3, 113-123.	3.7	92
187	Comparative analysis of efficiency, environmental impact, and process economics for mature biomass refining scenarios. Biofuels, Bioproducts and Biorefining, 2009, 3, 247-270.	3.7	107
188	Formation of ethyl Î²-xylopyranoside during simultaneous saccharification and co-fermentation of paper sludge. Enzyme and Microbial Technology, 2009, 44, 196-202.	3.2	10
189	Beneficial Biofuelsâ€"The Food, Energy, and Environment Trilemma. Science, 2009, 325, 270-271.	12.6	1,335
190	Recent process improvements for the ammonia fiber expansion (AFEX) process and resulting reductions in minimum ethanol selling price. Bioresource Technology, 2008, 99, 8429-8435.	9.6	127
191	End-product pathways in the xylose fermenting bacterium, Thermoanaerobacterium saccharolyticum. Enzyme and Microbial Technology, 2008, 42, 453-458.	3.2	71
192	How biotech can transform biofuels. Nature Biotechnology, 2008, 26, 169-172.	17.5	984
193	Metabolic engineering of a thermophilic bacterium to produce ethanol at high yield. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 13769-13774.	7.1	325
194	Consolidated Bioprocessing for Bioethanol Production Using Saccharomyces cerevisiae. Advances in Biochemical Engineering/Biotechnology, 2007, 108, 205-235.	1.1	170
195	Potential for Enhanced Nutrient Cycling through Coupling of Agricultural and Bioenergy Systems. Crop Science, 2007, 47, 1327-1335.	1.8	64
196	Fractionating recalcitrant lignocellulose at modest reaction conditions. Biotechnology and Bioengineering, 2007, 97, 214-223.	3.3	519
197	Hydrolysis and fermentation of amorphous cellulose by recombinant Saccharomyces cerevisiae. Metabolic Engineering, 2007, 9, 87-94.	7.0	233
198	Functional expression of cellobiohydrolases in Saccharomyces cerevisiae towards one-step conversion of cellulose to ethanol. Enzyme and Microbial Technology, 2007, 40, 1291-1299.	3.2	102

#	Article	IF	Citations
199	Energy Myth Three â€“ High Land Requirements and an Unfavorable Energy Balance Preclude Biomass Ethanol from Playing a Large Role in Providing Energy Services. , 2007, , 75-102.		13
200	Energy Returns on Ethanol Production. Science, 2006, 312, 1746-1748.	12.6	71
201	13 Gene Transfer Systems for Obligately Anaerobic Thermophilic Bacteria. Methods in Microbiology, 2006, , 309-330.	0.8	13
202	A Transition from Cellulose Swelling to Cellulose Dissolution byo-Phosphoric Acid:Â Evidence from Enzymatic Hydrolysis and Supramolecular Structure. Biomacromolecules, 2006, 7, 644-648.	5.4	478
203	Conversion of paper sludge to ethanol. I: Impact of feeding frequency and mixing energy characterization. Bioprocess and Biosystems Engineering, 2006, 30, 27-34.	3.4	36
204	Conversion of paper sludge to ethanol, II: process design and economic analysis. Bioprocess and Biosystems Engineering, 2006, 30, 35-45.	3.4	31
205	Biosynthesis of radiolabeled cellodextrins by the Clostridium thermocellum cellobiose and cellodextrin phosphorylases for measurement of intracellular sugars. Applied Microbiology and Biotechnology, 2006, 70, 123-129.	3.6	23
206	A functionally based model for hydrolysis of cellulose by fungal cellulase. Biotechnology and Bioengineering, 2006, 94, 888-898.	3.3	201
207	Enzyme-microbe synergy during cellulose hydrolysis by Clostridium thermocellum. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 16165-16169.	7.1	202
208	Utilization of cellobiose by recombinant Î²-glucosidase-expressing strains of Saccharomyces cerevisiae: characterization and evaluation of the sufficiency of expression. Enzyme and Microbial Technology, 2005, 37, 93-101.	3.2	36
209	Consolidated bioprocessing of cellulosic biomass: an update. Current Opinion in Biotechnology, 2005, 16, 577-583.	6.6	1,243
210	Theoretical analysis of selection-based strain improvement for microorganisms with growth dependent upon extracytoplasmic enzymes. Biotechnology and Bioengineering, 2005, 92, 35-44.	3.3	13
211	Regulation of Cellulase Synthesis in Batch and Continuous Cultures of Clostridium thermocellum. Journal of Bacteriology, 2005, 187, 99-106.	2.2	115
212	Role of Spontaneous Current Oscillations during High-Efficiency Electrotransformation of Thermophilic Anaerobes. Applied and Environmental Microbiology, 2005, 71, 8069-8076.	3.1	28
213	Determination of the Number-Average Degree of Polymerization of Cellodextrins and Cellulose with Application to Enzymatic Hydrolysis. Biomacromolecules, 2005, 6, 1510-1515.	5.4	245
214	Cellulose utilization by Clostridium thermocellum: Bioenergetics and hydrolysis product assimilation. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 7321-7325.	7.1	212
215	Electrotransformation of Clostridium thermocellum. Applied and Environmental Microbiology, 2004, 70, 883-890.	3.1	102
216	Cloning of l-lactate dehydrogenase and elimination of lactic acid production via gene knockout in Thermoanaerobacterium saccharolyticum JW/SL-YS485. Applied Microbiology and Biotechnology, 2004, 65, 600-5.	3.6	76

#	Article	IF	Citations
217	Toward an aggregated understanding of enzymatic hydrolysis of cellulose: Noncomplexed cellulase systems. Biotechnology and Bioengineering, 2004, 88, 797-824.	3.3	1,537
218	Cloning and expression of theClostridium thermocellumL-lactate dehydrogenase gene inEscherichia coliand enzyme characterization. Canadian Journal of Microbiology, 2004, 50, 845-851.	1.7	53
219	Kinetics and Relative Importance of Phosphorolytic and Hydrolytic Cleavage of Cellodextrins and Cellobiose in Cell Extracts of Clostridium thermocellum. Applied and Environmental Microbiology, 2004, 70, 1563-1569.	3.1	89
220	Toward an aggregated understanding of enzymatic hydrolysis of cellulose: Noncomplexed cellulase systems. , 2004, 88, 797.		1
221	Introduction to Microbial Catalysis and Engineering. , 2004, 113-116, 323-324.		0
222	A Product-Nonspecific Framework for Evaluating the Potential of Biomass-Based Products to Displace Fossil Fuels. Journal of Industrial Ecology, 2003, 7, 17-32.	5.5	67
223	Cellodextrin preparation by mixed-acid hydrolysis and chromatographic separation. Analytical Biochemistry, 2003, 322, 225-232.	2.4	85
224	Conversion of paper sludge to ethanol in a semicontinuous solids-fed reactor. Bioprocess and Biosystems Engineering, 2003, 26, 93-101.	3.4	129
225	Quantification of Cell and Cellulase Mass Concentrations during Anaerobic Cellulose Fermentation:Â Development of an Enzyme-Linked Immunosorbent Assay-Based Method with Application toClostridiumthermocellumBatch Cultures. Analytical Chemistry, 2003, 75, 219-227.	6.5	95
226	High-Value Renewable Energy from Prairie Grasses. Environmental Science & Technology, 2002, 36, 2122-2129.	10.0	261
227	Quantitative determination of cellulase concentration as distinct from cell concentration in studies of microbial cellulose utilization: Analytical framework and methodological approach. Biotechnology and Bioengineering, 2002, 77, 467-475.	3.3	43
228	A comparison of liquid hot water and steam pretreatments of sugar cane bagasse for bioconversion to ethanol. Bioresource Technology, 2002, 81, 33-44.	9.6	507
229	Microbial Cellulose Utilization: Fundamentals and Biotechnology. Microbiology and Molecular Biology Reviews, 2002, 66, 506-577.	6.6	3,654
230	A Comparison between Hot Liquid Water and Steam Fractionation of Corn Fiber. Industrial & Engineering Chemistry Research, 2001, 40, 2934-2941.	3.7	149
231	Characterization of 13 newly isolated strains of anaerobic, cellulolytic, thermophilic bacteria. Journal of Industrial Microbiology and Biotechnology, 2001, 27, 275-280.	3.0	42
232	Salt Accumulation Resulting from Base Added for pH Control, and Not Ethanol, Limits Growth of Thermoanaerobacterium thermosaccharolyticum HG-8 at Elevated Feed Xylose Concentrations in Continuous Culture. Biotechnology Progress, 2001, 17, 118-125.	2.6	47
233	Biocommodity Engineering. Biotechnology Progress, 1999, 15, 777-793.	2.6	636
234	Superiority of the PCR-based approach for cloning the acetate kinase gene of Clostridium thermocellum. Journal of Industrial Microbiology and Biotechnology, 1998, 21, 145-149.	3.0	1

#	Article	IF	Citations
235	Applicability of competitive and noncompetitive kinetics to the reductive dechlorination of chlorinated ethenes. , 1998, 57, 751-755.		21
236	Allocation of ATP to synthesis of cells and hydrolytic enzymes in cellulolytic fermentative microorganisms: Bioenergetics, kinetics, and bioprocessing. , 1998, 58, 316-320.		17
237	Allocation of ATP to synthesis of cells and hydrolytic enzymes in cellulolytic fermentative microorganisms: Bioenergetics, kinetics, and bioprocessing. Biotechnology and Bioengineering, 1998, 58, 316-320.	3.3	1
238	Applicability of competitive and noncompetitive kinetics to the reductive dechlorination of chlorinated ethenes. Biotechnology and Bioengineering, 1998, 57, 751-755.	3.3	0
239	Restriction endonuclease activity in Clostridium thermocellum and Clostridium thermosaccharolyticum. Applied Microbiology and Biotechnology, 1996, 45, 127-131.	3.6	27
240	Recombinant DNA Technology in Development of an Economical Conversion of Waste to Liquid Fuela. Annals of the New York Academy of Sciences, 1996, 782, 402-412.	3.8	7
241	OVERVIEW AND EVALUATION OF FUEL ETHANOL FROM CELLULOSIC BIOMASS: Technology, Economics, the Environment, and Policy. Annual Review of Environment and Resources, 1996, 21, 403-465.	1.2	585
242	Conversion of Lignocellulosics Pretreated with Liquid Hot Water to Ethanol. , 1996, , 157-170.		27
243	Conversion of lignocellulosics pretreated with liquid hot water to ethanol. Applied Biochemistry and Biotechnology, 1996, 57-58, 157-170.	2.9	129
244	Cellulose degradation and ethanol production by thermophilic bacteria using mineral growth medium. Applied Biochemistry and Biotechnology, 1996, 57-58, 599-604.	2.9	6
245	Likely features and costs of mature biomass ethanol technology. Applied Biochemistry and Biotechnology, 1996, 57-58, 741-761.	2.9	216
246	Perchloroethylene utilization by methanogenic fed-batch cultures. Applied Biochemistry and Biotechnology, 1996, 57-58, 895-904.	2.9	7
247	Electrotransformation ofClostridium thermosaccharolyticum. Journal of Industrial Microbiology, 1996, 16, 342-347.	0.9	36
248	Likely Features and Costs of Mature Biomass Ethanol Technology. , 1996, , 741-761.		45
249	Cellulose Degradation and Ethanol Production by Thermophilic Bacteria Using Mineral Growth Medium. , 1996, , 599-604.		0
250	Investigation of the ethanol tolerance of Clostridium thermosaccharolyticum in continuous culture. Biotechnology Progress, 1995, 11, 276-281.	2.6	54
251	Modeling simultaneous saccharification and fermentation of lignocellulose to ethanol in batch and continuous reactors. Enzyme and Microbial Technology, 1995, 17, 797-803.	3.2	95
252	Optimization of a chemically defined, minimal medium forClostridium thermosaccharolyticum. Applied Biochemistry and Biotechnology, 1995, 51-52, 399-411.	2.9	4

#	Article	IF	Citations
253	Analysis of internal and external energy flows associated with projected process improvements in biomass ethanol production. Applied Biochemistry and Biotechnology, 1995, 51-52, 569-584.	2.9	4
254	Organism development and characterization for ethanol production using thermophilic bacteria. Applied Biochemistry and Biotechnology, 1994, 45-46, 209-223.	2.9	25
255	Analysis of conversion of particulate biomass to ethanol in continuous solids retaining and cascade bioreactors. Applied Biochemistry and Biotechnology, 1994, 45-46, 467-481.	2.9	20
256	Kinetics of the extracellular cellulases of Clostridium thermocellum acting on pretreated mixed hardwood and Avicel. Applied Microbiology and Biotechnology, 1994, 41, 620-625.	3.6	12
257	Bioenergetics and end-product regulation ofClostridium thermosaccharolyticum in response to nutrient limitation. Biotechnology and Bioengineering, 1993, 42, 873-883.	3.3	21
258	Adsorption ofClostridium thermocellum cellulases onto pretreated mixed hardwood, avicel, and lignin. Biotechnology and Bioengineering, 1993, 42, 899-907.	3.3	51
259	Introduction to session 4. Applied Biochemistry and Biotechnology, 1993, 39-40, 385-385.	2.9	0
260	Continuous fermentation of cellulosic biomass to ethanol. Applied Biochemistry and Biotechnology, 1993, 39-40, 587-600.	2.9	46
261	Ethanol, the ultimate feedstock. Applied Biochemistry and Biotechnology, 1992, 34-35, 395-417.	2.9	18
262	Direct microbial conversion. Applied Biochemistry and Biotechnology, 1992, 34-35, 527-541.	2.9	33
263	Thermophilic ethanol production investigation of ethanol yield and tolerance in continuous culture. Applied Biochemistry and Biotechnology, 1991, 28-29, 549-570.	2.9	31
264	Fuel Ethanol from Cellulosic Biomass. Science, 1991, 251, 1318-1323.	12.6	875
265	Large-scale fuel ethanol from lignocellulose. Applied Biochemistry and Biotechnology, 1990, 24-25, 695-719.	2.9	59
266	Computer simulation of the dartmouth process for separation of dilute Ethanol/Water mixtures. Applied Biochemistry and Biotechnology, 1989, 20-21, 621-633.	2.9	6
267	Fermentation of Cellulosic Substrates in Batch and Continuous Culture by <i>Clostridium thermocellum</i>. Applied and Environmental Microbiology, 1989, 55, 3131-3139.	3.1	141
268	Hydrolysis of dilute acid pretreated mixed hardwood and purified microcrystalline cellulose by cell-free broth fromClostridium thermocellum. Biotechnology and Bioengineering, 1987, 29, 92-100.	3.3	50
269	Distillation with intermediate heat pumps and optimal sidestream return. AICHE Journal, 1986, 32, 1347-1359.	3.6	39
270	Kinetics of cellobiose hydrolysis using cellobiase composites fromTtrichoderma reesei andAspergillus niger. Biotechnology and Bioengineering, 1985, 27, 463-470.	3.3	31

#	Article	IF	Citations
271	Interdisciplinary core curriculum based on engineering systems. , 0, , .		1
272	Surface Microbiology of Cellulolytic Bacteria. , 0, , 634-643.		0
273	Enzyme Engineering by Directed Evolution. , 0, , 466-479.		0
274	New Approaches to Microbial Isolation. , 0, , 3-12.		5
275	Taxonomic Characterization of Prokaryotic Microorganisms. , 0, , 28-42.		1
276	Metabolic Engineering Strategies for Production of Commodity and Fine Chemicals: <i>Escherichia coli</i> as a Platform Organism. , 0, , 591-604.		0
277	Advances in Sensor and Sampling Technologies in Fermentation and Mammalian Cell Culture. , 0, , 700-718.		0
278	Metabolomics for the Discovery of Novel Compounds. , 0, , 73-77.		0
279	Strategies for Accessing Microbial Secondary Metabolites from Silent Biosynthetic Pathways. , 0, , 78-95.		1
280	Miniaturization of Fermentations. , 0, , 99-116.		0
281	Isolation and Screening for Secondary Metabolites. , 0, , 1-2.		0
282	Fermentation and Cell Culture. , 0, , 97-98.		0
283	Genetics, Strain Improvement, and Recombinant Proteins. , 0, , 223-224.		0
284	Genetic Engineering of Secondary Metabolite Synthesis. , 0, , 345-346.		0
285	Microbial Fuels (Biofuels) and Fine Chemicals. , 0, , 563-564.		0
286	Biological Engineering and Scale-Up of Industrial Processes. , 0, , 657-658.		0
287	Heterologous Production of Polyketides in<i>Streptomyces coelicolor</i>and<i>Escherichia coli</i>. , 0, , 380-390.		0
288	Genetic Manipulation of Mammalian Cells for Protein Expression. , 0, , 330-344.		0

#	Article	IF	Citations
289	Scale-Up of Microbial Fermentation Process. , 0, , 669-675.		7
290	Tools for Enzyme Discovery. , 0, , 441-452.		2
291	Glycosylation of Secondary Metabolites To Produce Novel Compounds. , 0, , 347-363.		0
292	Industrial Applications of Enzymes as Catalysts. , 0, , 480-494.		1
293	Raw Materials Selection and Medium Development for Industrial Fermentation Processes. , 0, , 659-668.		4
294	Microalgal Culture as a Feedstock for Bioenergy, Chemicals, and Nutrition. , 0, , 577-590.		0
295	Heterologous Protein Expression in Yeasts and Filamentous Fungi. , 0, , 145-156.		2
296	Continuous Culture. , 0, , 685-699.		1
297	Improving Microbial Robustness Using Systems Biology. , 0, , 605-620.		0
298	Strain Improvement of <i>Escherichia coli</i> To Enhance Recombinant Protein Production. , 0, , 273-286.		0
299	Genetic Engineering of Acidic Lipopeptide Antibiotics. , 0, , 391-410.		0
300	Enzyme Production in <i>Escherichia coli</i>. , 0, , 539-548.		0
301	Bioethanol Production from Lignocellulosics: Some Process Considerations and Procedures. , 0, , 621-633.		1
302	Cell Culture Bioreactors: Controls, Measurements, and Scale-Down Model. , 0, , 676-684.		0
303	Enzyme Engineering: Combining Computational Approaches with Directed Evolution. , 0, , 453-465.		0
304	Mammalian Cell Culture for Biopharmaceutical Production. , 0, , 157-178.		10
305	Consolidated Bioprocessing of Cellulosic Biomass to Ethanol Using Thermophilic Bacteria. , 0, , 55-74.		8