

# Lee R Lynd

## 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.

302  
papers

21,732  
citations

66  
h-index

144  
g-index

322  
ext. papers

23,688  
ext. citations

7.9  
avg, IF

6.98  
L-index

#	Paper	IF	Citations
302	A Single Nucleotide Change in the DNA Polymerase III in <i>Clostridium thermocellum</i> Is Sufficient To Create a Hypermutator Phenotype.. <i>Applied and Environmental Microbiology</i> , <b>2022</b> , 88, e0153121	4.8	0
301	Declining carbohydrate solubilization with increasing solids loading during fermentation of cellulosic feedstocks by <i>Clostridium thermocellum</i> : documentation and diagnostic tests. <b>2022</b> , 15, 12		0
300	Assessing the impact of substrate-level enzyme regulations limiting ethanol titer in <i>Clostridium thermocellum</i> using a core kinetic model.. <i>Metabolic Engineering</i> , <b>2022</b> , 69, 286-301	9.7	0
299	In vivo evolution of lactic acid hyper-tolerant <i>Clostridium thermocellum</i> .. <i>New Biotechnology</i> , <b>2021</b> , 67, 12-22	6.4	0
298	Cross-national analysis of food security drivers: comparing results based on the Food Insecurity Experience Scale and Global Food Security Index. <i>Food Security</i> , <b>2021</b> , 13, 1245	6.7	6
297	Laboratory Evolution and Reverse Engineering of for Growth on Glucose and Fructose. <i>Applied and Environmental Microbiology</i> , <b>2021</b> , 87,	4.8	1
296	Coculture with hemicellulose-fermenting microbes reverses inhibition of corn fiber solubilization by <i>Clostridium thermocellum</i> at elevated solids loadings. <i>Biotechnology for Biofuels</i> , <b>2021</b> , 14, 24	7.8	6
295	Inhibition of Pyruvate Kinase From by IMP Is Independent of the Extra-C Domain. <i>Frontiers in Microbiology</i> , <b>2021</b> , 12, 628308	5.7	0
294	Functional analysis of H-pumping membrane-bound pyrophosphatase, ADP-glucose synthase, and pyruvate phosphate dikinase as pyrophosphate sources in .. <i>Applied and Environmental Microbiology</i> , <b>2021</b> , AEM0185721	4.8	0
293	Thermodynamic Analysis of Glycolysis in <i>Clostridium thermocellum</i> and <i>Thermoanaerobacterium saccharolyticum</i> Using C and H Tracers. <i>MSystems</i> , <b>2020</b> , 5,	7.6	20
292	Characterization of reduced carbohydrate solubilization during <i>Clostridium thermocellum</i> fermentation with high switchgrass concentrations. <i>Biomass and Bioenergy</i> , <b>2020</b> , 139, 105623	5.3	2
291	Developing a Cell-Free Extract Reaction (CFER) System in <i>Clostridium thermocellum</i> to Identify Metabolic Limitations to Ethanol Production. <i>Frontiers in Energy Research</i> , <b>2020</b> , 8,	3.8	1
290	Metabolic and evolutionary responses of to genetic interventions aimed at improving ethanol production. <i>Biotechnology for Biofuels</i> , <b>2020</b> , 13, 40	7.8	17
289	Conversion of phosphoenolpyruvate to pyruvate in. <i>Metabolic Engineering Communications</i> , <b>2020</b> , 10, e00122	6.5	2
288	Fermentation with continuous ball milling: Effectiveness at enhancing solubilization for several cellulosic feedstocks and comparative tolerance of several microorganisms. <i>Biomass and Bioenergy</i> , <b>2020</b> , 134, 105468	5.3	2
287	Development of a thermophilic coculture for corn fiber conversion to ethanol. <i>Nature Communications</i> , <b>2020</b> , 11, 1937	17.4	25
286	Methods for Metabolic Engineering of <i>Thermoanaerobacterium saccharolyticum</i> . <i>Methods in Molecular Biology</i> , <b>2020</b> , 2096, 21-43	1.4	1

285	Assessment of yield gaps on global grazed-only permanent pasture using climate binning. <i>Global Change Biology</i> , <b>2020</b> , 26, 1820-1832	11.4	4
284	Socio-environmental and land-use impacts of double-cropped maize ethanol in Brazil. <i>Nature Sustainability</i> , <b>2020</b> , 3, 209-216	22.1	11
283	Development of both type I-B and type II CRISPR/Cas genome editing systems in the cellulolytic bacterium. <i>Metabolic Engineering Communications</i> , <b>2020</b> , 10, e00116	6.5	38
282	The pentose phosphate pathway of cellulolytic clostridia relies on 6-phosphofructokinase instead of transaldolase. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 1867-1878	5.4	9
281	Technoeconomic and life-cycle analysis of single-step catalytic conversion of wet ethanol into fungible fuel blendstocks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 12576-12583	11.5	17
280	Metabolic Fluxes of Nitrogen and Pyrophosphate in Chemostat Cultures of <i>Clostridium thermocellum</i> and <i>Thermoanaerobacterium saccharolyticum</i> . <i>Applied and Environmental Microbiology</i> , <b>2020</b> , 86,	4.8	3
279	Robust paths to net greenhouse gas mitigation and negative emissions via advanced biofuels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 21968-21977	11.5	48
278	Multiple levers for overcoming the recalcitrance of lignocellulosic biomass. <i>Biotechnology for Biofuels</i> , <b>2019</b> , 12, 15	7.8	36
277	Thermodynamic analysis of the pathway for ethanol production from cellobiose in <i>Clostridium thermocellum</i> . <i>Metabolic Engineering</i> , <b>2019</b> , 55, 161-169	9.7	22
276	A mutation in the AdhE alcohol dehydrogenase of <i>Clostridium thermocellum</i> increases tolerance to several primary alcohols, including isobutanol, n-butanol and ethanol. <i>Scientific Reports</i> , <b>2019</b> , 9, 1736	4.9	21
275	Metabolic engineering of for -butanol production from cellulose. <i>Biotechnology for Biofuels</i> , <b>2019</b> , 12, 186	7.8	38
274	Characterization of the <i>Clostridium thermocellum</i> AdhE, NfnAB, ferredoxin and Pfor proteins for their ability to support high titer ethanol production in <i>Thermoanaerobacterium saccharolyticum</i> . <i>Metabolic Engineering</i> , <b>2019</b> , 51, 32-42	9.7	15
273	Integrating pasture intensification and bioenergy crop expansion <b>2018</b> , 46-59		1
272	Expressing the in engineered improves ethanol production. <i>Biotechnology for Biofuels</i> , <b>2018</b> , 11, 242	7.8	20
271	Rheological properties of corn stover slurries during fermentation by. <i>Biotechnology for Biofuels</i> , <b>2018</b> , 11, 246	7.8	8
270	Development and characterization of stable anaerobic thermophilic methanogenic microbiomes fermenting switchgrass at decreasing residence times. <i>Biotechnology for Biofuels</i> , <b>2018</b> , 11, 243	7.8	21
269	The redox-sensing protein Rex modulates ethanol production in <i>Thermoanaerobacterium saccharolyticum</i> . <i>PLoS ONE</i> , <b>2018</b> , 13, e0195143	3.7	8
268	Determining the roles of the three alcohol dehydrogenases (AdhA, AdhB and AdhE) in <i>Thermoanaerobacter ethanolicus</i> during ethanol formation. <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2017</b> , 44, 745-757	4.2	7

267	The role of bioenergy in a climate-changing world. <i>Environmental Development</i> , <b>2017</b> , 23, 57-64	4.1	93
266	Total global agricultural land footprint associated with UK food supply 1986-2011. <i>Global Environmental Change</i> , <b>2017</b> , 43, 72-81	10.1	36
265	Lignocellulose fermentation and residual solids characterization for senescent switchgrass fermentation by <i>Clostridium thermocellum</i> in the presence and absence of continuous in situ ball-milling. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 1252-1261	35.4	48
264	Glycolysis without pyruvate kinase in <i>Clostridium thermocellum</i> . <i>Metabolic Engineering</i> , <b>2017</b> , 39, 169-180	9.7	40
263	Cellulosic ethanol: status and innovation. <i>Current Opinion in Biotechnology</i> , <b>2017</b> , 45, 202-211	11.4	236
262	Lignocellulose deconstruction in the biosphere. <i>Current Opinion in Chemical Biology</i> , <b>2017</b> , 41, 61-70	9.7	69
261	The grand challenge of cellulosic biofuels. <i>Nature Biotechnology</i> , <b>2017</b> , 35, 912-915	44.5	105
260	Enhanced ethanol formation by <i>Clostridium thermocellum</i> via pyruvate decarboxylase. <i>Microbial Cell Factories</i> , <b>2017</b> , 16, 171	6.4	22
259	Expression of from different organisms in. <i>Biotechnology for Biofuels</i> , <b>2017</b> , 10, 251	7.8	4
258	Metabolome analysis reveals a role for glyceraldehyde 3-phosphate dehydrogenase in the inhibition of by ethanol. <i>Biotechnology for Biofuels</i> , <b>2017</b> , 10, 276	7.8	17
257	Deletion of the gene increases ethanol production in and several other thermophilic anaerobic bacteria. <i>Biotechnology for Biofuels</i> , <b>2017</b> , 10, 282	7.8	10
256	Progress in understanding and overcoming biomass recalcitrance: a BioEnergy Science Center (BESC) perspective. <i>Biotechnology for Biofuels</i> , <b>2017</b> , 10, 285	7.8	16
255	Hydrogen isotope composition of <i>Thermoanaerobacterium saccharolyticum</i> lipids: Comparing wild type with a nfn- transhydrogenase mutant. <i>Organic Geochemistry</i> , <b>2017</b> , 113, 239-241	3.1	2
254	Development of a core kinetic metabolic model consistent with multiple genetic perturbations. <i>Biotechnology for Biofuels</i> , <b>2017</b> , 10, 108	7.8	26
253	The ethanol pathway from <i>Thermoanaerobacterium saccharolyticum</i> improves ethanol production in <i>Clostridium thermocellum</i> . <i>Metabolic Engineering</i> , <b>2017</b> , 42, 175-184	9.7	35
252	Engineering electron metabolism to increase ethanol production in <i>Clostridium thermocellum</i> . <i>Metabolic Engineering</i> , <b>2017</b> , 39, 71-79	9.7	41
251	Both and a Separate NADPH-Dependent Alcohol Dehydrogenase Gene, , Are Necessary for High Ethanol Production in <i>Thermoanaerobacterium saccharolyticum</i> . <i>Journal of Bacteriology</i> , <b>2017</b> , 199,	3.5	19
250	Simultaneous achievement of high ethanol yield and titer in <i>Clostridium thermocellum</i> . <i>Biotechnology for Biofuels</i> , <b>2016</b> , 9, 116	7.8	94

249	Strain and bioprocess improvement of a thermophilic anaerobe for the production of ethanol from wood. <i>Biotechnology for Biofuels</i> , <b>2016</b> , 9, 125	7.8	41
248	Development of a plasmid-based expression system in and its use to screen heterologous expression of bifunctional alcohol dehydrogenases (s). <i>Metabolic Engineering Communications</i> , <b>2016</b> , 3, 120-129	6.5	13
247	Biological lignocellulose solubilization: comparative evaluation of biocatalysts and enhancement via cotreatment. <i>Biotechnology for Biofuels</i> , <b>2016</b> , 9, 8	7.8	63
246	A markerless gene deletion and integration system for <i>Thermoanaerobacter ethanolicus</i> . <i>Biotechnology for Biofuels</i> , <b>2016</b> , 9, 100	7.8	13
245	Promiscuous plasmid replication in thermophiles: Use of a novel hyperthermophilic replicon for genetic manipulation of at its optimum growth temperature. <i>Metabolic Engineering Communications</i> , <b>2016</b> , 3, 30-38	6.5	12
244	Voices of biotech. <i>Nature Biotechnology</i> , <b>2016</b> , 34, 270-5	44.5	3
243	Potential of Sugarcane in Modern Energy Development in Southern Africa. <i>Frontiers in Energy Research</i> , <b>2016</b> , 4,	3.8	3
242	Dramatic performance of <i>Clostridium thermocellum</i> explained by its wide range of cellulase modalities. <i>Science Advances</i> , <b>2016</b> , 2, e1501254	14.3	81
241	Cost competitive second-generation ethanol production from hemicellulose in a Brazilian sugarcane biorefinery. <i>Biofuels, Bioproducts and Biorefining</i> , <b>2016</b> , 10, 589-602	5.3	31
240	Advances in Consolidated Bioprocessing Using <i>Clostridium thermocellum</i> and <i>Thermoanaerobacter saccharolyticum</i> <b>2016</b> , 365-394		24
239	<i>Clostridium thermocellum</i> releases coumaric acid during degradation of untreated grasses by the action of an unknown enzyme. <i>Applied Microbiology and Biotechnology</i> , <b>2016</b> , 100, 2907-15	5.7	5
238	Nicotinamide cofactor ratios in engineered strains of <i>Clostridium thermocellum</i> and <i>Thermoanaerobacterium saccharolyticum</i> . <i>FEMS Microbiology Letters</i> , <b>2016</b> , 363,	2.9	9
237	Ferredoxin:NAD <sup>+</sup> Oxidoreductase of <i>Thermoanaerobacterium saccharolyticum</i> and Its Role in Ethanol Formation. <i>Applied and Environmental Microbiology</i> , <b>2016</b> , 82, 7134-7141	4.8	20
236	Ethanol production by engineered thermophiles. <i>Current Opinion in Biotechnology</i> , <b>2015</b> , 33, 130-41	11.4	92
235	Bioenergy and African transformation. <i>Biotechnology for Biofuels</i> , <b>2015</b> , 8, 18	7.8	41
234	Development of a regulatable plasmid-based gene expression system for <i>Clostridium thermocellum</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2015</b> , 99, 7589-99	5.7	18
233	Coculture of <i>Staphylococcus aureus</i> with <i>Pseudomonas aeruginosa</i> Drives <i>S. aureus</i> towards Fermentative Metabolism and Reduced Viability in a Cystic Fibrosis Model. <i>Journal of Bacteriology</i> , <b>2015</b> , 197, 2252-64	3.5	172
232	The need for biofuels as part of a low carbon energy future. <i>Biofuels, Bioproducts and Biorefining</i> , <b>2015</b> , 9, 476-483	5.3	83

231	Deletion of nfnAB in <i>Thermoanaerobacterium saccharolyticum</i> and Its Effect on Metabolism. <i>Journal of Bacteriology</i> , <b>2015</b> , 197, 2920-9	3.5	24
230	Elimination of hydrogenase active site assembly blocks H <sub>2</sub> production and increases ethanol yield in <i>Clostridium thermocellum</i> . <i>Biotechnology for Biofuels</i> , <b>2015</b> , 8, 20	7.8	78
229	Winter rye as a bioenergy feedstock: impact of crop maturity on composition, biological solubilization and potential revenue. <i>Biotechnology for Biofuels</i> , <b>2015</b> , 8, 35	7.8	23
228	Identifying promoters for gene expression in. <i>Metabolic Engineering Communications</i> , <b>2015</b> , 2, 23-29	6.5	36
227	The bifunctional alcohol and aldehyde dehydrogenase gene, adhE, is necessary for ethanol production in <i>Clostridium thermocellum</i> and <i>Thermoanaerobacterium saccharolyticum</i> . <i>Journal of Bacteriology</i> , <b>2015</b> , 197, 1386-93	3.5	64
226	Genome-scale resources for <i>Thermoanaerobacterium saccharolyticum</i> . <i>BMC Systems Biology</i> , <b>2015</b> , 9, 30	3.5	14
225	Elucidating central metabolic redox obstacles hindering ethanol production in <i>Clostridium thermocellum</i> . <i>Metabolic Engineering</i> , <b>2015</b> , 32, 207-219	9.7	25
224	Three cellulosomal xylanase genes in <i>Clostridium thermocellum</i> are regulated by both vegetative SigA (T <sub>A</sub> ) and alternative SigI6 (I <sub>6</sub> ) factors. <i>FEBS Letters</i> , <b>2015</b> , 589, 3133-40	3.8	14
223	Elimination of formate production in <i>Clostridium thermocellum</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2015</b> , 42, 1263-72	4.2	26
222	Energy, sugar dilution, and economic analysis of hot water flow-through pre-treatment for producing biofuel from sugarcane residues. <i>Biofuels, Bioproducts and Biorefining</i> , <b>2015</b> , 9, 95-108	5.3	14
221	Physiological roles of pyruvate ferredoxin oxidoreductase and pyruvate formate-lyase in <i>Thermoanaerobacterium saccharolyticum</i> JW/SL-YS485. <i>Biotechnology for Biofuels</i> , <b>2015</b> , 8, 138	7.8	34
220	Draft Genome Sequence of the Cellulolytic and Xylanolytic Thermophile <i>Clostridium clariflavum</i> Strain 4-2a. <i>Genome Announcements</i> , <b>2015</b> , 3,		2
219	Cofactor Specificity of the Bifunctional Alcohol and Aldehyde Dehydrogenase (AdhE) in Wild-Type and Mutant <i>Clostridium thermocellum</i> and <i>Thermoanaerobacterium saccharolyticum</i> . <i>Journal of Bacteriology</i> , <b>2015</b> , 197, 2610-9	3.5	47
218	Metabolic engineering of <i>Thermoanaerobacterium saccharolyticum</i> for n-butanol production. <i>Metabolic Engineering</i> , <b>2014</b> , 21, 17-25	9.7	47
217	Introduction to Cellulosic Energy Crops <b>2014</b> , 1-14		6
216	Fluid mechanics relevant to flow through pretreatment of cellulosic biomass. <i>Bioresource Technology</i> , <b>2014</b> , 157, 278-83	11	12
215	Development of a multipoint quantitation method to simultaneously measure enzymatic and structural components of the <i>Clostridium thermocellum</i> cellulosome protein complex. <i>Journal of Proteome Research</i> , <b>2014</b> , 13, 692-701	5.6	11
214	Take a closer look: biofuels can support environmental, economic and social goals. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 7200-3	10.3	112

213	Profile of secreted hydrolases, associated proteins, and SlpA in <i>Thermoanaerobacterium saccharolyticum</i> during the degradation of hemicellulose. <i>Applied and Environmental Microbiology</i> , <b>2014</b> , 80, 5001-11	4.8	22
212	The identification of four histidine kinases that influence sporulation in <i>Clostridium thermocellum</i> . <i>Anaerobe</i> , <b>2014</b> , 28, 109-19	2.8	24
211	Scale-Up of Microbial Fermentation Process <b>2014</b> , 669-675		3
210	Tools for Enzyme Discovery <b>2014</b> , 441-452		1
209	Glycosylation of Secondary Metabolites To Produce Novel Compounds <b>2014</b> , 347-363		
208	Industrial Applications of Enzymes as Catalysts <b>2014</b> , 480-494		1
207	Insect Cell Culture <b>2014</b> , 212-222		3
206	Plant Cell Culture <b>2014</b> , 196-211		
205	Raw Materials Selection and Medium Development for Industrial Fermentation Processes <b>2014</b> , 659-668		4
204	Genetic Engineering Tools for <i>Saccharomyces cerevisiae</i> <b>2014</b> , 287-301		0
203	Enzyme Promiscuity and Evolution of New Protein Functions <b>2014</b> , 524-538		
202	Microalgal Culture as a Feedstock for Bioenergy, Chemicals, and Nutrition <b>2014</b> , 577-590		
201	Heterologous Protein Expression in Yeasts and Filamentous Fungi <b>2014</b> , 145-156		1
200	Continuous Culture <b>2014</b> , 685-699		1
199	Improving Microbial Robustness Using Systems Biology <b>2014</b> , 605-620		
198	Genetic Manipulation of <i>Myxobacteria</i> <b>2014</b> , 262-272		
197	Strain Improvement of <i>Escherichia coli</i> To Enhance Recombinant Protein Production <b>2014</b> , 273-286		
196	Genetic Engineering of Acidic Lipopeptide Antibiotics <b>2014</b> , 391-410		

- 195 Genetic Engineering To Regulate Production of Secondary Metabolites in *Streptomyces clavuligerus* **2014**, 411-425
- 194 Genetic Engineering of Myxobacterial Natural Product Biosynthetic Genes **2014**, 426-437
- 193 Enzyme Production in *Escherichia coli* **2014**, 539-548
- 192 Bioprocess Development **2014**, 549-562
- 191 Accessing Microbial Communities Relevant to Biofuels Production **2014**, 565-576
- 190 Bioethanol Production from Lignocellulosics: Some Process Considerations and Procedures **2014**, 621-633
- 189 Genetics, Genetic Manipulation, and Approaches to Strain Improvement of Filamentous Fungi **2014**, 318-329 16
- 188 Purification and Characterization of Proteins **2014**, 731-742
- 187 Cell Culture Bioreactors: Controls, Measurements, and Scale-Down Model **2014**, 676-684
- 186 Protein Expression in Nonconventional Yeasts **2014**, 302-317
- 185 Metabolic Engineering of *Escherichia coli* for the Production of a Precursor to Artemisinin, an Antimalarial Drug **2014**, 364-379
- 184 Enzyme Engineering: Combining Computational Approaches with Directed Evolution **2014**, 453-465
- 183 Bioreactor Automation **2014**, 719-730 2
- 182 Mammalian Cell Culture for Biopharmaceutical Production **2014**, 157-178 6
- 181 Genetic Engineering of *Corynebacteria* **2014**, 225-237
- 180 The Use of Enzymes for Nonaqueous Organic Transformations **2014**, 509-523
- 179 Surface Microbiology of Cellulolytic Bacteria **2014**, 634-643
- 178 Enzyme Engineering by Directed Evolution **2014**, 466-479



177	Bacterial Cultivation for Production of Proteins and Other Biological Products <b>2014</b> , 132-144	1
176	New Approaches to Microbial Isolation <b>2014</b> , 3-12	4
175	Genetic Manipulation of Clostridium <b>2014</b> , 238-261	
174	Selective Isolation of Actinobacteria <b>2014</b> , 13-27	7
173	Taxonomic Characterization of Prokaryotic Microorganisms <b>2014</b> , 28-42	1
172	Enzymes from Extreme Environments <b>2014</b> , 43-61	1
171	Metabolic Engineering Strategies for Production of Commodity and Fine Chemicals: Escherichia coli as a Platform Organism <b>2014</b> , 591-604	
170	Cell-Based Screening Methods for Anti-Infective Compounds <b>2014</b> , 62-72	
169	Advances in Sensor and Sampling Technologies in Fermentation and Mammalian Cell Culture <b>2014</b> , 700-718	
168	Metabolomics for the Discovery of Novel Compounds <b>2014</b> , 73-77	
167	Strategies for Accessing Microbial Secondary Metabolites from Silent Biosynthetic Pathways <b>2014</b> , 78-95	1
166	Miniaturization of Fermentations <b>2014</b> , 99-116	
165	Solid-Phase Fermentation: Aerobic and Anaerobic <b>2014</b> , 117-131	
164	Isolation and Screening for Secondary Metabolites <b>2014</b> , 1-2	
163	Fermentation and Cell Culture <b>2014</b> , 97-98	
162	Genetics, Strain Improvement, and Recombinant Proteins <b>2014</b> , 223-224	
161	Genetic Engineering of Secondary Metabolite Synthesis <b>2014</b> , 345-346	
160	Industrial Enzymes, Biocatalysis, and Enzyme Evolution <b>2014</b> , 439-439	

159 Microbial Fuels (Biofuels) and Fine Chemicals **2014**, 563-564

158 Biological Engineering and Scale-Up of Industrial Processes **2014**, 657-658

157 Heterologous Production of Polyketides in *Streptomyces coelicolor* and *Escherichia coli* **2014**, 380-390

156 Biomass-Converting Enzymes and Their Bioenergy Applications **2014**, 495-508

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155 Manufacture of Mammalian Cell Biopharmaceuticals **2014**, 179-195

154 Genetic Manipulation of Mammalian Cells for Protein Expression **2014**, 330-344

153 Physiological and Methodological Aspects of Cellulolytic Microbial Cultures **2014**, 644-656

2

152 Comparative analysis of the ability of *Clostridium clariflavum* strains and *Clostridium thermocellum* to utilize hemicellulose and unpretreated plant material. *Biotechnology for Biofuels*, **2014**, 7, 136

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151 Simulated performance of reactor configurations for hot-water pretreatment of sugarcane bagasse. *ChemSusChem*, **2014**, 7, 2721-7

8.3

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150 Optimization of affinity digestion for the isolation of cellulosomes from *Clostridium thermocellum*. *Preparative Biochemistry and Biotechnology*, **2014**, 44, 206-16

2.4

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149 The exometabolome of *Clostridium thermocellum* reveals overflow metabolism at high cellulose loading. *Biotechnology for Biofuels*, **2014**, 7, 155

7.8

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148 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, 3360-4

11.5

10

147 Cellulose fermentation by *Clostridium thermocellum* and a mixed consortium in an automated repetitive batch reactor. *Bioresource Technology*, **2014**, 155, 50-6

11

15

146 Increase in ethanol yield via elimination of lactate production in an ethanol-tolerant mutant of *Clostridium thermocellum*. *PLoS ONE*, **2014**, 9, e86389

3.7

49

145 Functional heterologous expression of an engineered full length CipA from *Clostridium thermocellum* in *Thermoanaerobacterium saccharolyticum*. *Biotechnology for Biofuels*, **2013**, 6, 32

7.8

26

144 Characterization of *Clostridium thermocellum* strains with disrupted fermentation end-product pathways. *Journal of Industrial Microbiology and Biotechnology*, **2013**, 40, 725-34

4.2

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143 Tracking the cellulolytic activity of *Clostridium thermocellum* biofilms. *Biotechnology for Biofuels*, **2013**, 6, 175

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18

142 Redirecting carbon flux through exogenous pyruvate kinase to achieve high ethanol yields in *Clostridium thermocellum*. *Metabolic Engineering*, **2013**, 15, 151-8

9.7

67

141	Exchange of type II dockerin-containing subunits of the Clostridium thermocellum cellulosome as revealed by SNAP-tags. <i>FEMS Microbiology Letters</i> , <b>2013</b> , 338, 46-53	2.9	6
140	Form and function of Clostridium thermocellum biofilms. <i>Applied and Environmental Microbiology</i> , <b>2013</b> , 79, 231-9	4.8	37
139	Kinetic modeling of xylan hydrolysis in co- and countercurrent liquid hot water flow-through pretreatments. <i>Bioresource Technology</i> , <b>2013</b> , 130, 117-24	11	24
138	Testing alternative kinetic models for utilization of crystalline cellulose (Avicel) by batch cultures of Clostridium thermocellum. <i>Biotechnology and Bioengineering</i> , <b>2013</b> , 110, 2389-94	4.9	15
137	Cellulosic Biofuels: Importance, Recalcitrance, and Pretreatment <b>2013</b> , 17-21		4
136	Genome Sequences of Industrially Relevant Saccharomyces cerevisiae Strain M3707, Isolated from a Sample of Distillers Yeast and Four Haploid Derivatives. <i>Genome Announcements</i> , <b>2013</b> , 1,		7
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