

# Robert M Kelly

## 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.

239  
papers

8,496  
citations

54  
h-index

78  
g-index

252  
ext. papers

9,634  
ext. citations

6  
avg, IF

5.92  
L-index

#	Paper	IF	Citations
239	Plant Biomass Fermentation by the Extreme Thermophile <i>Caldicellulosiruptor bescii</i> for Co-Production of Green Hydrogen and Acetone: Technoeconomic Analysis.. <i>Bioresource Technology</i> , <b>2022</b> , 126780	11	1
238	Life in hot acid: a genome-based reassessment of the archaeal order Sulfolobales. <i>Environmental Microbiology</i> , <b>2021</b> , 23, 3568-3584	5.2	7
237	Intersection of Biotic and Abiotic Sulfur Chemistry Supporting Extreme Microbial Life in Hot Acid. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 5243-5257	3.4	1
236	Genome-Scale Metabolic Model of Reveals Optimal Metabolic Engineering Strategies for Bio-based Chemical Production. <i>MSystems</i> , <b>2021</b> , 6, e0135120	7.6	1
235	Transcriptional Regulation of Plant Biomass Degradation and Carbohydrate Utilization Genes in the Extreme Thermophile. <i>MSystems</i> , <b>2021</b> , 6, e0134520	7.6	3
234	A genomic catalog of Earth's microbiomes. <i>Nature Biotechnology</i> , <b>2021</b> , 39, 499-509	44.5	120
233	The biology of thermoacidophilic archaea from the order Sulfolobales. <i>FEMS Microbiology Reviews</i> , <b>2021</b> , 45,	15.1	8
232	Thermophilic microbial deconstruction and conversion of natural and transgenic lignocellulose. <i>Environmental Microbiology Reports</i> , <b>2021</b> , 13, 272-293	3.7	5
231	Genome Sequences of Five Type Strain Members of the Archaeal Family , <i>Acidianus ambivalens</i> , <i>Acidianus infernus</i> , <i>Stygiolobus azoricus</i> , <i>Sulfuracidifex metallicus</i> , and <i>Sulfurisphaera ohwakuensis</i> . <i>Microbiology Resource Announcements</i> , <b>2020</b> , 9,	1.3	2
230	Modification of the glycolytic pathway in <i>Pyrococcus furiosus</i> and the implications for metabolic engineering. <i>Extremophiles</i> , <b>2020</b> , 24, 511-518	3	5
229	Use of the lignocellulose-degrading bacterium to assess recalcitrance and conversion of wild-type and transgenic poplar. <i>Biotechnology for Biofuels</i> , <b>2020</b> , 13, 43	7.8	6
228	Metabolically engineered <i>Caldicellulosiruptor bescii</i> as a platform for producing acetone and hydrogen from lignocellulose. <i>Biotechnology and Bioengineering</i> , <b>2020</b> , 117, 3799-3808	4.9	7
227	Engineering the cellulolytic extreme thermophile <i>Caldicellulosiruptor bescii</i> to reduce carboxylic acids to alcohols using plant biomass as the energy source. <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2020</b> , 47, 585-597	4.2	2
226	The biology and biotechnology of the genus <i>Caldicellulosiruptor</i> : recent developments in the Caldi World. <i>Extremophiles</i> , <b>2020</b> , 24, 1-15	3	12
225	Determinants of sulphur chemolithoautotrophy in the extremely thermoacidophilic Sulfolobales. <i>Environmental Microbiology</i> , <b>2019</b> , 21, 3696-3710	5.2	7
224	The thermophilic biomass-degrading bacterium utilizes two enzymes to oxidize glyceraldehyde 3-phosphate during glycolysis. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 9995-10005	5.4	13
223	Lignocellulose solubilization and conversion by extremely thermophilic <i>Caldicellulosiruptor bescii</i> improves by maintaining metabolic activity. <i>Biotechnology and Bioengineering</i> , <b>2019</b> , 116, 1901-1908	4.9	10

222	Extreme thermophiles as emerging metabolic engineering platforms. <i>Current Opinion in Biotechnology</i> , <b>2019</b> , 59, 55-64	11.4	19
221	Quantitative fermentation of unpretreated transgenic poplar by <i>Caldicellulosiruptor bescii</i> . <i>Nature Communications</i> , <b>2019</b> , 10, 3548	17.4	15
220	Extremely Thermoacidophilic Species Mediate Mobilization and Oxidation of Vanadium and Molybdenum Oxides. <i>Applied and Environmental Microbiology</i> , <b>2019</b> , 85,	4.8	5
219	Comparative Biochemical and Structural Analysis of Novel Cellulose Binding Proteins (T $\beta$ irins) from Extremely Thermophilic Species. <i>Applied and Environmental Microbiology</i> , <b>2019</b> , 85,	4.8	7
218	Genus-Wide Assessment of Lignocellulose Utilization in the Extremely Thermophilic Genus <i>Caldicellulosiruptor</i> by Genomic, Pangenomic, and Metagenomic Analyses. <i>Applied and Environmental Microbiology</i> , <b>2018</b> , 84,	4.8	22
217	Sequential processing with fermentative <i>Caldicellulosiruptor kronotskyensis</i> and chemolithoautotrophic <i>Cupriavidus necator</i> for converting rice straw and CO to polyhydroxybutyrate. <i>Biotechnology and Bioengineering</i> , <b>2018</b> , 115, 1624-1629	4.9	12
216	Uncoupling Fermentative Synthesis of Molecular Hydrogen from Biomass Formation in <i>Thermotoga maritima</i> . <i>Applied and Environmental Microbiology</i> , <b>2018</b> , 84,	4.8	26
215	Novel multidomain, multifunctional glycoside hydrolases from highly lignocellulolytic <i>Caldicellulosiruptor</i> species. <i>AIChE Journal</i> , <b>2018</b> , 64, 4218-4228	3.6	15
214	Secretion and fusion of biogeochemically active archaeal membrane vesicles. <i>Geobiology</i> , <b>2018</b> , 16, 659-673	4.3	4
213	The diversity and specificity of the extracellular proteome in the cellulolytic bacterium is driven by the nature of the cellulosic growth substrate. <i>Biotechnology for Biofuels</i> , <b>2018</b> , 11, 80	7.8	8
212	Complete Genome Sequences of Extremely Thermoacidophilic Metal-Mobilizing Type Strain Members of the Archaeal Family Sulfolobaceae, <i>Acidianus brierleyi</i> DSM-1651, <i>Acidianus sulfidivorans</i> DSM-18786, and <i>Metallosphaera hakonensis</i> DSM-7519. <i>Microbiology Resource Announcements</i> , <b>2018</b> , 7,	1.3	4
211	A synthetic enzymatic pathway for extremely thermophilic acetone production based on the unexpectedly thermostable acetoacetate decarboxylase from <i>Clostridium acetobutylicum</i> . <i>Biotechnology and Bioengineering</i> , <b>2018</b> , 115, 2951-2961	4.9	6
210	Native xylose-inducible promoter expands the genetic tools for the biomass-degrading, extremely thermophilic bacterium <i>Caldicellulosiruptor bescii</i> . <i>Extremophiles</i> , <b>2018</b> , 22, 629-638	3	16
209	Engineering redox-balanced ethanol production in the cellulolytic and extremely thermophilic bacterium, <i>Metabolic Engineering Communications</i> , <b>2018</b> , 7, e00073	6.5	30
208	Biotechnology of extremely thermophilic archaea. <i>FEMS Microbiology Reviews</i> , <b>2018</b> , 42, 543-578	15.1	42
207	Simultaneous biosynthesis of ()-acetoin and ethylene glycol from D-xylose through metabolic engineering. <i>Metabolic Engineering Communications</i> , <b>2018</b> , 7, e00074	6.5	7
206	Parsing in vivo and in vitro contributions to microcrystalline cellulose hydrolysis by multidomain glycoside hydrolases in the <i>Caldicellulosiruptor bescii</i> secretome. <i>Biotechnology and Bioengineering</i> , <b>2018</b> , 115, 2426-2440	4.9	11
205	Physiological, metabolic and biotechnological features of extremely thermophilic microorganisms. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , <b>2017</b> , 9, e1377	6.6	25

204	Ethanol production by the hyperthermophilic archaeon <i>Pyrococcus furiosus</i> by expression of bacterial bifunctional alcohol dehydrogenases. <i>Microbial Biotechnology</i> , <b>2017</b> , 10, 1535-1545	6.3	22
203	Diversity of bacteria and archaea from two shallow marine hydrothermal vents from Vulcano Island. <i>Extremophiles</i> , <b>2017</b> , 21, 733-742	3	26
202	Genome Stability in Engineered Strains of the Extremely Thermophilic Lignocellulose-Degrading Bacterium <i>Caldicellulosiruptor bescii</i> . <i>Applied and Environmental Microbiology</i> , <b>2017</b> , 83,	4.8	15
201	Two Distinct $\beta$ -Arabinofuranosidases in <i>Caldicellulosiruptor</i> Species Drive Degradation of Arabinose-Based Polysaccharides. <i>Applied and Environmental Microbiology</i> , <b>2017</b> , 83,	4.8	9
200	VapC toxins drive cellular dormancy under uranium stress for the extreme thermoacidophile <i>Metallosphaera prunae</i> . <i>Environmental Microbiology</i> , <b>2017</b> , 19, 2831-2842	5.2	6
199	Extremely thermophilic energy metabolisms: biotechnological prospects. <i>Current Opinion in Biotechnology</i> , <b>2017</b> , 45, 104-112	11.4	16
198	The renaissance of life near the boiling point - at last, genetics and metabolic engineering. <i>Microbial Biotechnology</i> , <b>2017</b> , 10, 37-39	6.3	6
197	Functional Analysis of the Glucan Degradation Locus in <i>Caldicellulosiruptor bescii</i> Reveals Essential Roles of Component Glycoside Hydrolases in Plant Biomass Deconstruction. <i>Applied and Environmental Microbiology</i> , <b>2017</b> , 83,	4.8	25
196	Impact of growth mode, phase, and rate on the metabolic state of the extremely thermophilic archaeon <i>Pyrococcus furiosus</i> . <i>Biotechnology and Bioengineering</i> , <b>2017</b> , 114, 2947-2954	4.9	3
195	<i>Caldicellulosiruptor saccharolyticus</i> transcriptomes reveal consequences of chemical pretreatment and genetic modification of lignocellulose. <i>Microbial Biotechnology</i> , <b>2017</b> , 10, 1546-1557	6.3	10
194	Bioavailability of Carbohydrate Content in Natural and Transgenic Switchgrasses for the Extreme Thermophile <i>Caldicellulosiruptor bescii</i> . <i>Applied and Environmental Microbiology</i> , <b>2017</b> , 83,	4.8	13
193	Reaction kinetic analysis of the 3-hydroxypropionate/4-hydroxybutyrate CO fixation cycle in extremely thermoacidophilic archaea. <i>Metabolic Engineering</i> , <b>2016</b> , 38, 446-463	9.7	17
192	Temperature-dependent acetoin production by <i>Pyrococcus furiosus</i> is catalyzed by a biosynthetic acetolactate synthase and its deletion improves ethanol production. <i>Metabolic Engineering</i> , <b>2016</b> , 34, 71-79	9.7	19
191	Heterologous Production of an Energy-Conserving Carbon Monoxide Dehydrogenase Complex in the Hyperthermophile <i>Pyrococcus furiosus</i> . <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 29	5.7	26
190	A Highly Thermostable Kanamycin Resistance Marker Expands the Tool Kit for Genetic Manipulation of <i>Caldicellulosiruptor bescii</i> . <i>Applied and Environmental Microbiology</i> , <b>2016</b> , 82, 4421-4428	4.8	34
189	Ancillary contributions of heterologous biotin protein ligase and carbonic anhydrase for CO incorporation into 3-hydroxypropionate by metabolically engineered <i>Pyrococcus furiosus</i> . <i>Biotechnology and Bioengineering</i> , <b>2016</b> , 113, 2652-2660	4.9	18
188	Extreme Thermophiles as Metabolic Engineering Platforms: Strategies and Current Perspective <b>2016</b> , 505-580		3
187	Transcriptomes of the Extremely Thermoacidophilic Archaeon <i>Metallosphaera sedula</i> Exposed to Metal "Shock" Reveal Generic and Specific Metal Responses. <i>Applied and Environmental Microbiology</i> , <b>2016</b> , 82, 4613-4627	4.8	23

186	Multidomain, Surface Layer-associated Glycoside Hydrolases Contribute to Plant Polysaccharide Degradation by Caldicellulosiruptor Species. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 6732-47	5.4	32
185	Discrete and structurally unique proteins (t̄pirins) mediate attachment of extremely thermophilic Caldicellulosiruptor species to cellulose. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 10645-56	5.4	21
184	Bioprocessing analysis of Pyrococcus furiosus strains engineered for CO <sub>2</sub> -based 3-hydroxypropionate production. <i>Biotechnology and Bioengineering</i> , <b>2015</b> , 112, 1533-43	4.9	21
183	Comparative Analysis of Extremely Thermophilic Caldicellulosiruptor Species Reveals Common and Unique Cellular Strategies for Plant Biomass Utilization. <i>Applied and Environmental Microbiology</i> , <b>2015</b> , 81, 7159-70	4.8	29
182	Alcohol Selectivity in a Synthetic Thermophilic n-Butanol Pathway Is Driven by Biocatalytic and Thermostability Characteristics of Constituent Enzymes. <i>Applied and Environmental Microbiology</i> , <b>2015</b> , 81, 7187-200	4.8	18
181	A New Class of Tungsten-Containing Oxidoreductase in Caldicellulosiruptor, a Genus of Plant Biomass-Degrading Thermophilic Bacteria. <i>Applied and Environmental Microbiology</i> , <b>2015</b> , 81, 7339-47	4.8	18
180	A hybrid synthetic pathway for butanol production by a hyperthermophilic microbe. <i>Metabolic Engineering</i> , <b>2015</b> , 27, 101-106	9.7	42
179	Machine learning reveals sex-specific 17β-estradiol-responsive expression patterns in white perch ( <i>Morone americana</i> ) plasma proteins. <i>Proteomics</i> , <b>2015</b> , 15, 2678-90	4.8	10
178	The Confluence of Heavy Metal Biooxidation and Heavy Metal Resistance: Implications for Bioleaching by Extreme Thermoacidophiles. <i>Minerals (Basel, Switzerland)</i> , <b>2015</b> , 5, 397-451	2.4	62
177	Extremely thermophilic microorganisms as metabolic engineering platforms for production of fuels and industrial chemicals. <i>Frontiers in Microbiology</i> , <b>2015</b> , 6, 1209	5.7	111
176	Complete Genome Sequences of Caldicellulosiruptor sp. Strain Rt8.B8, Caldicellulosiruptor sp. Strain Wai35.B1, and "Thermoanaerobacter cellulolyticus". <i>Genome Announcements</i> , <b>2015</b> , 3,		12
175	A mutant (Rab strain) of the hyperthermophilic archaeon Pyrococcus furiosus, lacking flagella, has unusual growth physiology. <i>Extremophiles</i> , <b>2015</b> , 19, 269-81	3	7
174	Lignocellulosic Biomass Deconstruction by the Extremely Thermophilic Genus Caldicellulosiruptor <b>2015</b> , 91-120		3
173	Thermophilic lignocellulose deconstruction. <i>FEMS Microbiology Reviews</i> , <b>2014</b> , 38, 393-448	15.1	125
172	Single gene insertion drives bioalcohol production by a thermophilic archaeon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 17618-23	11.5	74
171	Cross-linked polymer nanofibers for hyperthermophilic enzyme immobilization: approaches to improve enzyme performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 11899-906	9.5	46
170	Role of an archaeal PitA transporter in the copper and arsenic resistance of Metallosphaera sedula, an extreme thermoacidophile. <i>Journal of Bacteriology</i> , <b>2014</b> , 196, 3562-70	3.5	23
169	Nanofibrous membranes for single-step immobilization of hyperthermophilic enzymes. <i>Journal of Membrane Science</i> , <b>2014</b> , 472, 251-260	9.6	28

168	Production of lignofuels and electrofuels by extremely thermophilic microbes. <i>Biofuels</i> , <b>2014</b> , 5, 499-515	9
167	Engineering hydrogen gas production from formate in a hyperthermophile by heterologous production of an 18-subunit membrane-bound complex. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 2873-94	36
166	Conversion of 4-hydroxybutyrate to acetyl coenzyme A and its anapleurosis in the Metallosphaera sedula 3-hydroxypropionate/4-hydroxybutyrate carbon fixation pathway. <i>Applied and Environmental Microbiology</i> , <b>2014</b> , 80, 2536-45	4.8 19
165	The Order Thermococcales and the Family Thermococcaceae <b>2014</b> , 363-383	3
164	Deletion of acetyl-CoA synthetases I and II increases production of 3-hydroxypropionate by the metabolically-engineered hyperthermophile <i>Pyrococcus furiosus</i> . <i>Metabolic Engineering</i> , <b>2014</b> , 22, 83-8	9.7 22
163	The Extremely Thermophilic Genus <i>Caldicellulosiruptor</i> : Physiological and Genomic Characteristics for Complex Carbohydrate Conversion to Molecular Hydrogen. <i>Advances in Photosynthesis and Respiration</i> , <b>2014</b> , 177-195	1.7 5
162	Biological conversion of carbon dioxide and hydrogen into liquid fuels and industrial chemicals. <i>Current Opinion in Biotechnology</i> , <b>2013</b> , 24, 376-84	11.4 76
161	Role of 4-hydroxybutyrate-CoA synthetase in the CO <sub>2</sub> fixation cycle in thermoacidophilic archaea. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 4012-22	5.4 19
160	A thermophile under pressure: Transcriptional analysis of the response of <i>Caldicellulosiruptor saccharolyticus</i> to different H <sub>2</sub> partial pressures. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 1837-1849	6.7 12
159	Carbohydrate and lignin are simultaneously solubilized from unpretreated switchgrass by microbial action at high temperature. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 2186	35.4 66
158	Exploiting microbial hyperthermophilicity to produce an industrial chemical, using hydrogen and carbon dioxide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 5840-5	11.5 102
157	Stationary phase and nutrient levels trigger transcription of a genomic locus containing a novel peptide (TM1316) in the hyperthermophilic bacterium <i>Thermotoga maritima</i> . <i>Applied and Environmental Microbiology</i> , <b>2013</b> , 79, 6637-46	4.8 0
156	Uranium extremophily is an adaptive, rather than intrinsic, feature for extremely thermoacidophilic Metallosphaera species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 16702-7	11.5 41
155	<i>Caldicellulosiruptor</i> core and pangenomes reveal determinants for noncellulosomal thermophilic deconstruction of plant biomass. <i>Journal of Bacteriology</i> , <b>2012</b> , 194, 4015-28	3.5 81
154	Extreme Thermophiles: Moving beyond single-enzyme biocatalysis. <i>Current Opinion in Chemical Engineering</i> , <b>2012</b> , 1, 363-372	5.4 53
153	S-layer homology domain proteins Csac_0678 and Csac_2722 are implicated in plant polysaccharide deconstruction by the extremely thermophilic bacterium <i>Caldicellulosiruptor saccharolyticus</i> . <i>Applied and Environmental Microbiology</i> , <b>2012</b> , 78, 768-77	4.8 46
152	Hyperthermophilic <i>Thermotoga</i> species differ with respect to specific carbohydrate transporters and glycoside hydrolases. <i>Applied and Environmental Microbiology</i> , <b>2012</b> , 78, 1978-86	4.8 31
151	Epimerase (Msed_0639) and mutase (Msed_0638 and Msed_2055) convert (S)-methylmalonyl-coenzyme A (CoA) to succinyl-CoA in the Metallosphaera sedula 3-hydroxypropionate/4-hydroxybutyrate cycle. <i>Applied and Environmental Microbiology</i> , <b>2012</b> , 78, 6194-202	4.8 18

150	Starch self-processing in transgenic sweet potato roots expressing a hyperthermophilic $\alpha$ -amylase. <i>Biotechnology Progress</i> , <b>2011</b> , 27, 351-9	2.8	14
149	Glycoside hydrolase inventory drives plant polysaccharide deconstruction by the extremely thermophilic bacterium <i>Caldicellulosiruptor saccharolyticus</i> . <i>Biotechnology and Bioengineering</i> , <b>2011</b> , 108, 1559-69	4.9	53
148	Insights into plant biomass conversion from the genome of the anaerobic thermophilic bacterium <i>Caldicellulosiruptor bescii</i> DSM 6725. <i>Nucleic Acids Research</i> , <b>2011</b> , 39, 3240-54	20.1	94
147	Extremely Thermophilic Routes to Microbial Electrofuels. <i>ACS Catalysis</i> , <b>2011</b> , 1, 1043-1050	13.1	34
146	VapC6, a ribonucleolytic toxin regulates thermophilicity in the crenarchaeote <i>Sulfolobus solfataricus</i> . <i>Rna</i> , <b>2011</b> , 17, 1381-92	5.8	29
145	Complete genome sequences for the anaerobic, extremely thermophilic plant biomass-degrading bacteria <i>Caldicellulosiruptor hydrothermalis</i> , <i>Caldicellulosiruptor kristjanssonii</i> , <i>Caldicellulosiruptor kronotskyensis</i> , <i>Caldicellulosiruptor owensensis</i> , and <i>Caldicellulosiruptor lactoaceticus</i> . <i>Journal of Bacteriology</i> , <b>2011</b> , 193, 1483-4	3.5	49
144	A novel alpha-D-galactosynthase from <i>Thermotoga maritima</i> converts beta-D-galactopyranosyl azide to alpha-galacto-oligosaccharides. <i>Glycobiology</i> , <b>2011</b> , 21, 448-56	5.8	32
143	Impact of molecular hydrogen on chalcopyrite bioleaching by the extremely thermoacidophilic archaeon <i>Metallosphaera sedula</i> . <i>Applied and Environmental Microbiology</i> , <b>2010</b> , 76, 2668-72	4.8	24
142	Phylogenetic, microbiological, and glycoside hydrolase diversities within the extremely thermophilic, plant biomass-degrading genus <i>Caldicellulosiruptor</i> . <i>Applied and Environmental Microbiology</i> , <b>2010</b> , 76, 8084-92	4.8	90
141	Physiological versatility of the extremely thermoacidophilic archaeon <i>Metallosphaera sedula</i> supported by transcriptomic analysis of heterotrophic, autotrophic, and mixotrophic growth. <i>Applied and Environmental Microbiology</i> , <b>2010</b> , 76, 931-5	4.8	50
140	The genus <i>Thermotoga</i> : recent developments. <i>Environmental Technology (United Kingdom)</i> , <b>2010</b> , 31, 1169-81	2.6	44
139	Enzymes, Extremely Thermophilic <b>2010</b> , 1		
138	Part II: defining and quantifying individual and co-cultured intracellular proteomes of two thermophilic microorganisms by GeLC-MS2 and spectral counting. <i>Analytical and Bioanalytical Chemistry</i> , <b>2010</b> , 398, 391-404	4.4	10
137	Part I: characterization of the extracellular proteome of the extreme thermophile <i>Caldicellulosiruptor saccharolyticus</i> by GeLC-MS2. <i>Analytical and Bioanalytical Chemistry</i> , <b>2010</b> , 398, 377-391	4.4	16
136	N-terminal fusion of a hyperthermophilic chitin-binding domain to xylose isomerase from <i>Thermotoga neapolitana</i> enhances kinetics and thermostability of both free and immobilized enzymes. <i>Biotechnology Progress</i> , <b>2010</b> , 26, 993-1000	2.8	12
135	Microorganisms: Extremely Thermophilic <b>2009</b> , 1		
134	Carbohydrate utilization patterns for the extremely thermophilic bacterium <i>Caldicellulosiruptor saccharolyticus</i> reveal broad growth substrate preferences. <i>Applied and Environmental Microbiology</i> , <b>2009</b> , 75, 7718-24	4.8	89
133	Plant cell calcium-rich environment enhances thermostability of recombinantly produced alpha-amylase from the hyperthermophilic bacterium <i>Thermotoga maritima</i> . <i>Biotechnology and Bioengineering</i> , <b>2009</b> , 104, 947-56	4.9	7

132	Temperature, not LuxS, mediates AI-2 formation in hydrothermal habitats. <i>FEMS Microbiology Ecology</i> , <b>2009</b> , 68, 173-81	4.3	26
131	Role of vapBC toxin-antitoxin loci in the thermal stress response of <i>Sulfolobus solfataricus</i> . <i>Biochemical Society Transactions</i> , <b>2009</b> , 37, 123-6	5.1	43
130	Probing the stability of native and activated forms of alpha2-macroglobulin. <i>International Journal of Biological Macromolecules</i> , <b>2008</b> , 42, 62-7	7.9	5
129	Microwave activation of enzymatic catalysis. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 10048-9	26.4	97
128	Functional-genomics-based identification and characterization of open reading frames encoding alpha-glucoside-processing enzymes in the hyperthermophilic archaeon <i>Pyrococcus furiosus</i> . <i>Applied and Environmental Microbiology</i> , <b>2008</b> , 74, 1281-3	4.8	21
127	Hydrogenomics of the extremely thermophilic bacterium <i>Caldicellulosiruptor saccharolyticus</i> . <i>Applied and Environmental Microbiology</i> , <b>2008</b> , 74, 6720-9	4.8	132
126	Identification of components of electron transport chains in the extremely thermoacidophilic crenarchaeon <i>Metallosphaera sedula</i> through iron and sulfur compound oxidation transcriptomes. <i>Applied and Environmental Microbiology</i> , <b>2008</b> , 74, 7723-32	4.8	74
125	The genome sequence of the metal-mobilizing, extremely thermoacidophilic archaeon <i>Metallosphaera sedula</i> provides insights into bioleaching-associated metabolism. <i>Applied and Environmental Microbiology</i> , <b>2008</b> , 74, 682-92	4.8	122
124	Extremely thermophilic microorganisms for biomass conversion: status and prospects. <i>Current Opinion in Biotechnology</i> , <b>2008</b> , 19, 210-7	11.4	215
123	Life in hot acid: pathway analyses in extremely thermoacidophilic archaea. <i>Current Opinion in Biotechnology</i> , <b>2008</b> , 19, 445-53	11.4	48
122	Hydrogenesis in hyperthermophilic microorganisms: implications for biofuels. <i>Metabolic Engineering</i> , <b>2008</b> , 10, 394-404	9.7	71
121	Polysaccharide degradation and synthesis by extremely thermophilic anaerobes. <i>Annals of the New York Academy of Sciences</i> , <b>2008</b> , 1125, 322-37	6.5	52
120	Rheological properties of guar galactomannan solutions during hydrolysis with galactomannanase and alpha-galactosidase enzyme mixtures. <i>Biomacromolecules</i> , <b>2007</b> , 8, 949-56	6.9	20
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