

Yi-Heng Percival Zhang

List of Publications by Year in descending order

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127
papers

12,241
citations

26567

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all docs

133
docs citations

133
times ranked

9524
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering of a thermophilic dihydroxy-acid dehydratase toward glycerate dehydration for in vitro biosystems. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 3625-3637.	1.7	1
2	A facile and robust T7-promoter-based high-expression of heterologous proteins in <i>Bacillus subtilis</i> . <i>Bioresources and Bioprocessing</i> , 2022, 9, .	2.0	8
3	High efficiency transformation of archaea by direct PCR products with its application to directed evolution of a thermostable enzyme. <i>Microbial Biotechnology</i> , 2021, 14, 453-464.	2.0	5
4	Enzymatic regeneration and conservation of ATP: challenges and opportunities. <i>Critical Reviews in Biotechnology</i> , 2021, 41, 16-33.	5.1	40
5	Efficient secretory production of large size heterologous enzymes in <i>Bacillus subtilis</i> : A secretory partner and directed evolution. <i>Biotechnology and Bioengineering</i> , 2020, 117, 2957-2968.	1.7	7
6	CO ₂ fixation for malate synthesis energized by starch via in vitro metabolic engineering. <i>Metabolic Engineering</i> , 2019, 55, 152-160.	3.6	25
7	A High-Throughput Method for Directed Evolution of NAD(P) ⁺ -Dependent Dehydrogenases for the Reduction of Biomimetic Nicotinamide Analogues. <i>ACS Catalysis</i> , 2019, 9, 11709-11719.	5.5	30
8	Composition and distribution of internal resistance in an enzymatic fuel cell and its dependence on cell design and operating conditions. <i>RSC Advances</i> , 2019, 9, 7292-7300.	1.7	5
9	A shriveled rectangular carbon tube with the concave surface for high-performance enzymatic glucose/O ₂ biofuel cells. <i>Biosensors and Bioelectronics</i> , 2019, 132, 76-83.	5.3	39
10	Upgrade of wood sugar d-xylose to a value-added nutraceutical by in vitro metabolic engineering. <i>Metabolic Engineering</i> , 2019, 52, 1-8.	3.6	34
11	A Recombinant 12 His Tagged <i>Pyrococcus furiosus</i> Soluble [NiFe] Hydrogenase I Overexpressed in <i>Thermococcus kodakarensis</i> KOD1 Facilitates Hydrogen Powered in vitro NADH Regeneration. <i>Biotechnology Journal</i> , 2019, 14, e1800301.	1.8	10
12	Engineering a thermostable highly active glucose 6-phosphate dehydrogenase and its application to hydrogen production in vitro. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 3203-3215.	1.7	28
13	Complete Oxidation of Xylose for Bioelectricity Generation by Reconstructing a Bacterial Xylose Utilization Pathway in vitro. <i>ChemCatChem</i> , 2018, 10, 2030-2035.	1.8	18
14	Co-utilization of mixed sugars in an enzymatic fuel cell based on an in vitro enzymatic pathway. <i>Electrochimica Acta</i> , 2018, 263, 184-191.	2.6	29
15	Construction of Enzyme-Cofactor/Mediator Conjugates for Enhanced in Vitro Bioelectricity Generation. <i>Bioconjugate Chemistry</i> , 2018, 29, 3993-3998.	1.8	7
16	Insights into Cell-Free Conversion of CO ₂ to Chemicals by a Multienzyme Cascade Reaction. <i>ACS Catalysis</i> , 2018, 8, 11085-11093.	5.5	87
17	Stoichiometric Conversion of Cellulosic Biomass by in Vitro Synthetic Enzymatic Biosystems for Biomanufacturing. <i>ACS Catalysis</i> , 2018, 8, 9550-9559.	5.5	51
18	Building a Thermostable Metabolon for Facilitating Coenzyme Transport and In vitro Hydrogen Production at Elevated Temperature. <i>ChemSusChem</i> , 2018, 11, 3120-3130.	3.6	17

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19	In vitro synthetic enzymatic biosystems at the interface of the food-energy-water nexus: A conceptual framework and recent advances. <i>Process Biochemistry</i> , 2018, 74, 43-49.	1.8	2
20	Ultra-rapid rates of water splitting for biohydrogen gas production through in vitro artificial enzymatic pathways. <i>Energy and Environmental Science</i> , 2018, 11, 2064-2072.	15.6	36
21	An in vitro synthetic biology platform for emerging industrial biomanufacturing: Bottom-up pathway design. <i>Synthetic and Systems Biotechnology</i> , 2018, 3, 186-195.	1.8	42
22	Conversion of d-glucose to l-lactate via pyruvate by an optimized cell-free enzymatic biosystem containing minimized reactions. <i>Synthetic and Systems Biotechnology</i> , 2018, 3, 204-210.	1.8	21
23	Coevolution of both Thermostability and Activity of Polyphosphate Glucokinase from <i>Thermobifida fusca</i> YX. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	29
24	Systematic comparison of co-expression of multiple recombinant thermophilic enzymes in <i>Escherichia coli</i> BL21(DE3). <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 4481-4493.	1.7	47
25	An in vitro synthetic biology platform for the industrial biomanufacturing of myo-inositol from starch. <i>Biotechnology and Bioengineering</i> , 2017, 114, 1855-1864.	1.7	121
26	ATP-free biosynthesis of a high-energy phosphate metabolite fructose 1,6-diphosphate by in vitro metabolic engineering. <i>Metabolic Engineering</i> , 2017, 42, 168-174.	3.6	63
27	A kinetic model of one-pot rapid biotransformation of cellobiose from sucrose catalyzed by three thermophilic enzymes. <i>Chemical Engineering Science</i> , 2017, 161, 159-166.	1.9	29
28	Enhancing functional expression of codon-optimized heterologous enzymes in <i>Escherichia coli</i> BL21(DE3) by selective introduction of synonymous rare codons. <i>Biotechnology and Bioengineering</i> , 2017, 114, 1054-1064.	1.7	31
29	Advanced water splitting for green hydrogen gas production through complete oxidation of starch by in vitro metabolic engineering. <i>Metabolic Engineering</i> , 2017, 44, 246-252.	3.6	36
30	Protein engineering of oxidoreductases utilizing nicotinamide-based coenzymes, with applications in synthetic biology. <i>Synthetic and Systems Biotechnology</i> , 2017, 2, 208-218.	1.8	35
31	Thermal Cycling Cascade Biocatalysis of myo-Inositol Synthesis from Sucrose. <i>ACS Catalysis</i> , 2017, 7, 5992-5999.	5.5	39
32	Biochemical properties of GH94 cellodextrin phosphorylase THA_1941 from a thermophilic eubacterium <i>Thermosiphon africanus</i> TCF52B with cellobiose phosphorylase activity. <i>Scientific Reports</i> , 2017, 7, 4849.	1.6	22
33	Biomanufacturing: history and perspective. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2017, 44, 773-784.	1.4	104
34	Simple Cloning by Prolonged Overlap Extension-PCR with Application to the Preparation of Large-Size Random Gene Mutagenesis Library in <i>Escherichia coli</i> . <i>Methods in Molecular Biology</i> , 2017, 1472, 49-61.	0.4	5
35	Biomanufacturing by in vitro biosystems containing complex enzyme mixtures. <i>Process Biochemistry</i> , 2017, 52, 106-114.	1.8	32
36	In vitro metabolic engineering of bioelectricity generation by the complete oxidation of glucose. <i>Metabolic Engineering</i> , 2017, 39, 110-116.	3.6	69

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37	A Hidden Transhydrogen Activity of a FMN-Bound Diaphorase under Anaerobic Conditions. <i>PLoS ONE</i> , 2016, 11, e0154865.	1.1	10
38	High-Throughput Screening of Coenzyme Preference Change of Thermophilic 6-Phosphogluconate Dehydrogenase from NADP ⁺ to NAD ⁺ . <i>Scientific Reports</i> , 2016, 6, 32644.	1.6	28
39	Production of Succinate from Acetate by Metabolically Engineered <i>Escherichia coli</i> . <i>ACS Synthetic Biology</i> , 2016, 5, 1299-1307.	1.9	76
40	Exceptionally High Rates of Biological Hydrogen Production by Biomimetic In Vitro Synthetic Enzymatic Pathways. <i>Chemistry - A European Journal</i> , 2016, 22, 16047-16051.	1.7	25
41	Water Splitting for High-Yield Hydrogen Production Energized by Biomass Xylooligosaccharides Catalyzed by an Enzyme Cocktail. <i>ChemCatChem</i> , 2016, 8, 2898-2902.	1.8	23
42	Facile Construction of Random Gene Mutagenesis Library for Directed Evolution Without the Use of Restriction Enzyme in <i>Escherichia coli</i> . <i>Biotechnology Journal</i> , 2016, 11, 1142-1150.	1.8	5
43	Coenzyme Engineering of a Hyperthermophilic 6-Phosphogluconate Dehydrogenase from NADP ⁺ to NAD ⁺ with Its Application to Biobatteries. <i>Scientific Reports</i> , 2016, 6, 36311.	1.6	30
44	Biosynthesis of D-Xylulose 5-Phosphate from D-Xylose and polyphosphate through a minimized two-enzyme cascade. <i>Biotechnology and Bioengineering</i> , 2016, 113, 275-282.	1.7	29
45	A simple assay for determining activities of phosphopentomutase from a hyperthermophilic bacterium <i>Thermotoga maritima</i> . <i>Analytical Biochemistry</i> , 2016, 501, 75-81.	1.1	4
46	One-Pot Biosynthesis of High-Concentration D-Glucose 1-Phosphate from Starch by Sequential Addition of Three Hyperthermophilic Enzymes. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 1777-1783.	2.4	38
47	Use of nonimmobilized enzymes and mediators achieved high power densities in closed biobatteries. <i>Energy Science and Engineering</i> , 2015, 3, 490-497.	1.9	14
48	Doubling Power Output of Starch Biobattery Treated by the Most Thermostable Isoamylase from an Archaeon <i>Sulfolobus tokodaii</i> . <i>Scientific Reports</i> , 2015, 5, 13184.	1.6	28
49	New biorefineries and sustainable agriculture: Increased food, biofuels, and ecosystem security. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 47, 117-132.	8.2	93
50	High-yield hydrogen production from biomass by in vitro metabolic engineering: Mixed sugars cointilization and kinetic modeling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 4964-4969.	3.3	200
51	Production of biofuels and biochemicals by in vitro synthetic biosystems: Opportunities and challenges. <i>Biotechnology Advances</i> , 2015, 33, 1467-1483.	6.0	152
52	Directed Evolution of <i>Clostridium phytofermentans</i> Glycoside Hydrolase Family 9 Endoglucanase for Enhanced Specific Activity on Solid Cellulosic Substrate. <i>Bioenergy Research</i> , 2014, 7, 381-388.	2.2	9
53	A high-energy-density sugar biobattery based on a synthetic enzymatic pathway. <i>Nature Communications</i> , 2014, 5, 3026.	5.8	232
54	Simple Cloning and DNA Assembly in <i>Escherichia coli</i> by Prolonged Overlap Extension PCR. <i>Methods in Molecular Biology</i> , 2014, 1116, 183-192.	0.4	20

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55	Novel Hydrogen Bioreactor and Detection Apparatus. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2014, 152, 35-51.	0.6	3
56	Annexation of a High-Activity Enzyme in a Synthetic Three-Enzyme Complex Greatly Decreases the Degree of Substrate Channeling. <i>ACS Synthetic Biology</i> , 2014, 3, 380-386.	1.9	47
57	One-Pot Enzymatic Conversion of Sucrose to Synthetic Amylose by using Enzyme Cascades. <i>ACS Catalysis</i> , 2014, 4, 1311-1317.	5.5	49
58	New insights into enzymatic hydrolysis of heterogeneous cellulose by using carbohydrate-binding module 3 containing GFP and carbohydrate-binding module 17 containing CFP. <i>Biotechnology for Biofuels</i> , 2014, 7, 24.	6.2	46
59	In vitro metabolic engineering of hydrogen production at theoretical yield from sucrose. <i>Metabolic Engineering</i> , 2014, 24, 70-77.	3.6	87
60	A new high-energy density hydrogen carrier-carbohydrate-might be better than methanol. <i>International Journal of Energy Research</i> , 2013, 37, 769-779.	2.2	16
61	Recyclable cellulose-containing magnetic nanoparticles: immobilization of cellulose-binding module-tagged proteins and a synthetic metabolon featuring substrate channeling. <i>Journal of Materials Chemistry B</i> , 2013, 1, 4419-4427.	2.9	19
62	New lignocellulose pretreatments using cellulose solvents: a review. <i>Journal of Chemical Technology and Biotechnology</i> , 2013, 88, 169-180.	1.6	97
63	High-yield Production of Dihydrogen from Xylose by Using a Synthetic Enzyme Cascade in a Cell-free System. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4587-4590.	7.2	111
64	New biotechnology paradigm: cell-free biosystems for biomanufacturing. <i>Green Chemistry</i> , 2013, 15, 1708.	4.6	148
65	Enzymatic transformation of nonfood biomass to starch. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7182-7187.	3.3	144
66	Next generation biorefineries will solve the food, biofuels, and environmental trilemma in the energy-food-water nexus. <i>Energy Science and Engineering</i> , 2013, 1, 27-41.	1.9	90
67	Non-Complexed Four Cascade Enzyme Mixture: Simple Purification and Synergetic Co-stabilization. <i>PLoS ONE</i> , 2013, 8, e61500.	1.1	27
68	Cell-Free Biosystems for Biomanufacturing. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2012, 131, 89-119.	0.6	22
69	Simple Cloning via Direct Transformation of PCR Product (DNA Multimer) to <i>Escherichia coli</i> and <i>Bacillus subtilis</i> . <i>Applied and Environmental Microbiology</i> , 2012, 78, 1593-1595.	1.4	152
70	Thermophilic <i>Thermotoga maritima</i> ribose-5-phosphate isomerase RpiB: Optimized heat treatment purification and basic characterization. <i>Protein Expression and Purification</i> , 2012, 82, 302-307.	0.6	30
71	Easy preparation of a large-size random gene mutagenesis library in <i>Escherichia coli</i> . <i>Analytical Biochemistry</i> , 2012, 428, 7-12.	1.1	16
72	Deep oxidation of glucose in enzymatic fuel cells through a synthetic enzymatic pathway containing a cascade of two thermostable dehydrogenases. <i>Biosensors and Bioelectronics</i> , 2012, 36, 110-115.	5.3	64

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73	Engineering a large protein by combined rational and random approaches: stabilizing the <i>Clostridium thermocellum</i> cellobiose phosphorylase. <i>Molecular BioSystems</i> , 2012, 8, 1815.	2.9	30
74	Facilitated Substrate Channeling in a Self-Assembled Trifunctional Enzyme Complex. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 8787-8790.	7.2	171
75	Cellulose solvent-based pretreatment for corn stover and avicel: concentrated phosphoric acid versus ionic liquid [BMIM]Cl. <i>Cellulose</i> , 2012, 19, 1161-1172.	2.4	56
76	Mini-scaffoldin enhanced mini-cellulosome hydrolysis performance on low-accessibility cellulose (Avicel) more than on high-accessibility amorphous cellulose. <i>Biochemical Engineering Journal</i> , 2012, 63, 57-65.	1.8	17
77	Cellulose solvent- and organic solvent-based lignocellulose fractionation enabled efficient sugar release from a variety of lignocellulosic feedstocks. <i>Bioresource Technology</i> , 2012, 117, 228-233.	4.8	59
78	Constructing the electricity-carbohydrate-hydrogen cycle for a sustainability revolution. <i>Trends in Biotechnology</i> , 2012, 30, 301-306.	4.9	49
79	One-step purification and immobilization of thermophilic polyphosphate glucokinase from <i>Thermobifida fusca</i> YX: glucose-6-phosphate generation without ATP. <i>Applied Microbiology and Biotechnology</i> , 2012, 93, 1109-1117.	1.7	51
80	Simpler Is Better: High-Yield and Potential Low-Cost Biofuels Production through Cell-Free Synthetic Pathway Biotransformation (SyPaB). <i>ACS Catalysis</i> , 2011, 1, 998-1009.	5.5	74
81	Toward low-cost biomanufacturing through in vitro synthetic biology: bottom-up design. <i>Journal of Materials Chemistry</i> , 2011, 21, 18877.	6.7	65
82	Analysis of biofuels production from sugar based on three criteria: Thermodynamics, bioenergetics, and product separation. <i>Energy and Environmental Science</i> , 2011, 4, 784-792.	15.6	97
83	Simple, fast and high-efficiency transformation system for directed evolution of cellulase in <i>Bacillus subtilis</i> . <i>Microbial Biotechnology</i> , 2011, 4, 98-105.	2.0	130
84	What is vital (and not vital) to advance economically-competitive biofuels production. <i>Process Biochemistry</i> , 2011, 46, 2091-2110.	1.8	99
85	Substrate channeling and enzyme complexes for biotechnological applications. <i>Biotechnology Advances</i> , 2011, 29, 715-725.	6.0	264
86	Hydrogen Production from Carbohydrates: A Mini-Review. <i>ACS Symposium Series</i> , 2011, , 203-216.	0.5	12
87	Fusion of a family 9 cellulose-binding module improves catalytic potential of <i>Clostridium thermocellum</i> cellobiose phosphorylase on insoluble cellulose. <i>Applied Microbiology and Biotechnology</i> , 2011, 92, 551-560.	1.7	32
88	Ultra-stable phosphoglucose isomerase through immobilization of cellulose-binding module-tagged thermophilic enzyme on low-cost high-capacity cellulosic adsorbent. <i>Biotechnology Progress</i> , 2011, 27, 969-975.	1.3	59
89	Increasing cellulose accessibility is more important than removing lignin: A comparison of cellulose solvent-based lignocellulose fractionation and soaking in aqueous ammonia. <i>Biotechnology and Bioengineering</i> , 2011, 108, 22-30.	1.7	292
90	Cellulose solvent-based biomass pretreatment breaks highly ordered hydrogen bonds in cellulose fibers of switchgrass. <i>Biotechnology and Bioengineering</i> , 2011, 108, 521-529.	1.7	114

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91	A minimal set of bacterial cellulases for consolidated bioprocessing of lignocellulose. <i>Biotechnology Journal</i> , 2011, 6, 1409-1418.	1.8	34
92	Biohydrogenation from Biomass Sugar Mediated by In Vitro Synthetic Enzymatic Pathways. <i>Chemistry and Biology</i> , 2011, 18, 372-380.	6.2	97
93	Maltodextrin-powered enzymatic fuel cell through a non-natural enzymatic pathway. <i>Journal of Power Sources</i> , 2011, 196, 7505-7509.	4.0	42
94	One-step production of lactate from cellulose as the sole carbon source without any other organic nutrient by recombinant cellulolytic <i>Bacillus subtilis</i> . <i>Metabolic Engineering</i> , 2011, 13, 364-372.	3.6	84
95	Renewable Hydrogen Carrier " Carbohydrate: Constructing the Carbon-Neutral Carbohydrate Economy. <i>Energies</i> , 2011, 4, 254-275.	1.6	28
96	Energy Efficiency Analysis: Biomass-to-Wheel Efficiency Related with Biofuels Production, Fuel Distribution, and Powertrain Systems. <i>PLoS ONE</i> , 2011, 6, e22113.	1.1	55
97	The noncellulosomal family 48 cellobiohydrolase from <i>Clostridium phytofermentans</i> ISDg: heterologous expression, characterization, and processivity. <i>Applied Microbiology and Biotechnology</i> , 2010, 86, 525-533.	1.7	39
98	The Family 1 Glycoside Hydrolase from <i>Clostridium cellulolyticum</i> H10 is a Cellodextrin Glucohydrolase. <i>Applied Biochemistry and Biotechnology</i> , 2010, 161, 264-273.	1.4	8
99	Production of biocommodities and bioelectricity by cell-free synthetic enzymatic pathway biotransformations: Challenges and opportunities. <i>Biotechnology and Bioengineering</i> , 2010, 105, 663-677.	1.7	148
100	Fructose-1,6-bisphosphatase from a hyper-thermophilic bacterium <i>Thermotoga maritima</i> : Characterization, metabolite stability, and its implications. <i>Process Biochemistry</i> , 2010, 45, 1882-1887.	1.8	65
101	Renewable carbohydrates are a potential high-density hydrogen carrier. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 10334-10342.	3.8	63
102	Biofuel production by in vitro synthetic enzymatic pathway biotransformation. <i>Current Opinion in Biotechnology</i> , 2010, 21, 663-669.	3.3	76
103	Engineering of <i>Clostridium phytofermentans</i> Endoglucanase Cel5A for Improved Thermostability. <i>Applied and Environmental Microbiology</i> , 2010, 76, 4914-4917.	1.4	65
104	Spontaneous High-Yield Production of Hydrogen from Cellulosic Materials and Water Catalyzed by Enzyme Cocktails. <i>ChemSusChem</i> , 2009, 2, 149-152.	3.6	153
105	Comparative study of corn stover pretreated by dilute acid and cellulose solvent-based lignocellulose fractionation: Enzymatic hydrolysis, supramolecular structure, and substrate accessibility. <i>Biotechnology and Bioengineering</i> , 2009, 103, 715-724.	1.7	191
106	Fast identification of thermostable beta-glucosidase mutants on cellobiose by a novel combinatorial selection/screening approach. <i>Biotechnology and Bioengineering</i> , 2009, 103, 1087-1094.	1.7	68
107	Sessions 3 and 8: Pretreatment and Biomass Recalcitrance: Fundamentals and Progress. <i>Applied Biochemistry and Biotechnology</i> , 2009, 153, 80-83.	1.4	46
108	Cell-free protein synthesis energized by slowly-metabolized maltodextrin. <i>BMC Biotechnology</i> , 2009, 9, 58.	1.7	74

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109	A sweet out-of-the-box solution to the hydrogen economy: is the sugar-powered car science fiction?. <i>Energy and Environmental Science</i> , 2009, 2, 272.	15.6	109
110	Overexpression and simple purification of the <i>Thermotoga maritima</i> 6-phosphogluconate dehydrogenase in <i>Escherichia coli</i> and its application for NADPH regeneration. <i>Microbial Cell Factories</i> , 2009, 8, 30.	1.9	65
111	Reviving the carbohydrate economy via multi-product lignocellulose biorefineries. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2008, 35, 367-375.	1.4	494
112	Bioseparation of recombinant cellulose-binding module-proteins by affinity adsorption on an ultra-high-capacity cellulosic adsorbent. <i>Analytica Chimica Acta</i> , 2008, 621, 193-199.	2.6	92
113	Simple protein purification through affinity adsorption on regenerated amorphous cellulose followed by intein self-cleavage. <i>Journal of Chromatography A</i> , 2008, 1194, 150-154.	1.8	77
114	More Accurate Determination of Acid-Labile Carbohydrates in Lignocellulose by Modified Quantitative Saccharification. <i>Energy & Fuels</i> , 2007, 21, 3684-3688.	2.5	102
115	Methodological analysis for determination of enzymatic digestibility of cellulosic materials. <i>Biotechnology and Bioengineering</i> , 2007, 96, 188-194.	1.7	27
116	Fractionating recalcitrant lignocellulose at modest reaction conditions. <i>Biotechnology and Bioengineering</i> , 2007, 97, 214-223.	1.7	519
117	High-Yield Hydrogen Production from Starch and Water by a Synthetic Enzymatic Pathway. <i>PLoS ONE</i> , 2007, 2, e456.	1.1	224
118	A Transition from Cellulose Swelling to Cellulose Dissolution by Phosphoric Acid: Evidence from Enzymatic Hydrolysis and Supramolecular Structure. <i>Biomacromolecules</i> , 2006, 7, 644-648.	2.6	478
119	Outlook for cellulase improvement: Screening and selection strategies. <i>Biotechnology Advances</i> , 2006, 24, 452-481.	6.0	1,126
120	A functionally based model for hydrolysis of cellulose by fungal cellulase. <i>Biotechnology and Bioengineering</i> , 2006, 94, 888-898.	1.7	201
121	Regulation of Cellulase Synthesis in Batch and Continuous Cultures of <i>Clostridium thermocellum</i> . <i>Journal of Bacteriology</i> , 2005, 187, 99-106.	1.0	115
122	Determination of the Number-Average Degree of Polymerization of Cellodextrins and Cellulose with Application to Enzymatic Hydrolysis. <i>Biomacromolecules</i> , 2005, 6, 1510-1515.	2.6	245
123	Cellulose utilization by <i>Clostridium thermocellum</i> : Bioenergetics and hydrolysis product assimilation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 7321-7325.	3.3	212
124	Toward an aggregated understanding of enzymatic hydrolysis of cellulose: Noncomplexed cellulase systems. <i>Biotechnology and Bioengineering</i> , 2004, 88, 797-824.	1.7	1,537
125	Kinetics and Relative Importance of Phosphorolytic and Hydrolytic Cleavage of Cellodextrins and Cellobiose in Cell Extracts of <i>Clostridium thermocellum</i> . <i>Applied and Environmental Microbiology</i> , 2004, 70, 1563-1569.	1.4	89
126	Toward an aggregated understanding of enzymatic hydrolysis of cellulose: Noncomplexed cellulase systems. , 2004, 88, 797.		1

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127	Cellodextrin preparation by mixed-acid hydrolysis and chromatographic separation. Analytical Biochemistry, 2003, 322, 225-232.	1.1	85