James G Elkins

List of Publications by Year
in descending order

48 papers	3,201 citations	218677 26 h-index	243625 44 g-index
48 all docs	48 docs citations	48 times ranked	4189 citing authors

#	Article	IF	Citations
1	n-Butanol or isobutanol as a value-added fuel additive to inhibit microbial degradation of stored gasoline. Fuel Communications, 2022, 12, 100072.	5.2	1
2	Implementation of a self-consistent slab model of bilayer structure in the SasView suite. Journal of Applied Crystallography, 2021, 54, 363-370.	4.5	15
3	Solvent-induced membrane stress in biofuel production: molecular insights from small-angle scattering and all-atom molecular dynamics simulations. Green Chemistry, 2020, 22, 8278-8288.	9.0	9
4	Complete Genome Sequences of Four Natural Pseudomonas Isolates That Catabolize a Wide Range of Aromatic Compounds Relevant to Lignin Valorization. Microbiology Resource Announcements, 2020, 9, .	0.6	1
5	Impact of Fatty-Acid Labeling of Bacillus subtilis Membranes on the Cellular Lipidome and Proteome. Frontiers in Microbiology, 2020, 11, 914.	3.5	8
6	Complete Genome Sequence of Caloramator sp. Strain E03, a Novel Ethanologenic, Thermophilic, Obligately Anaerobic Bacterium. Microbiology Resource Announcements, 2019, 8, .	0.6	0
7	Genus-Wide Assessment of Lignocellulose Utilization in the Extremely Thermophilic Genus Caldicellulosiruptor by Genomic, Pangenomic, and Metagenomic Analyses. Applied and Environmental Microbiology, 2018, 84, .	3.1	33
8	Insights into the Evolution of Host Association through the Isolation and Characterization of a Novel Human Periodontal Pathobiont,Desulfobulbus oralis. MBio, 2018, 9, .	4.1	32
9	Development and characterization of stable anaerobic thermophilic methanogenic microbiomes fermenting switchgrass at decreasing residence times. Biotechnology for Biofuels, 2018, 11, 243.	6.2	37
10	Pentose sugars inhibit metabolism and increase expression of an AgrD-type cyclic pentapeptide in Clostridium thermocellum. Scientific Reports, 2017, 7, 43355.	3.3	24
11	Bacillus subtilis Lipid Extract, A Branched-Chain Fatty Acid Model Membrane. Journal of Physical Chemistry Letters, 2017, 8, 4214-4217.	4.6	42
12	Construction and Optimization of a Heterologous Pathway for Protocatechuate Catabolism in Escherichia coli Enables Bioconversion of Model Aromatic Compounds. Applied and Environmental Microbiology, 2017, 83, .	3.1	49
13	Expression of a heat-stable NADPH-dependent alcohol dehydrogenase from Thermoanaerobacter pseudethanolicus 39E in Clostridium thermocellum 1313 results in increased hydroxymethylfurfural resistance. Biotechnology for Biofuels, 2017, 10, 66.	6.2	15
14	The in vivo structure of biological membranes and evidence for lipid domains. PLoS Biology, 2017, 15, e2002214.	5.6	123
15	The effect of switchgrass loadings on feedstock solubilization and biofuel production by Clostridium thermocellum. Biotechnology for Biofuels, 2017, 10, 233.	6.2	15
16	Manufacturing demonstration of microbially mediated zinc sulfide nanoparticles in pilot-plant scale reactors. Applied Microbiology and Biotechnology, 2016, 100, 7921-7931.	3.6	32
17	Expression of a heat-stable NADPH-dependent alcohol dehydrogenase in Caldicellulosiruptor bescii results in furan aldehyde detoxification. Biotechnology for Biofuels, 2015, 8, 102.	6.2	21
18	Cellulosic ethanol production via consolidated bioprocessing at 75ÂÂ°C by engineered Caldicellulosiruptor bescii. Biotechnology for Biofuels, 2015, 8, 163.	6.2	52

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19	Community Analysis of Plant Biomass-Degrading Microorganisms from Obsidian Pool, Yellowstone National Park. Microbial Ecology, 2015, 69, 333-345.	2.8	20
20	Fermentation of Dilute Acid Pretreated Populus by Clostridium thermocellum, Caldicellulosiruptor bescii, and Caldicellulosiruptor obsidiansis. Bioenergy Research, 2015, 8, 1014-1021.	3.9	5
21	Determination of the cellulase activity distribution in Clostridium thermocellum and Caldicellulosiruptor obsidiansis cultures using a fluorescent substrate. Journal of Environmental Sciences, 2015, 34, 212-218.	6.1	6
22	A comparative multidimensional LC-MS proteomic analysis reveals mechanisms for furan aldehyde detoxification in Thermoanaerobacter pseudethanolicus 39E. Biotechnology for Biofuels, 2014, 7, 165.	6.2	17
23	Metabolic engineering of Caldicellulosiruptor bescii yields increased hydrogen production from lignocellulosic biomass. Biotechnology for Biofuels, 2013, 6, 85.	6.2	111
24	Thermodesulfobacterium geofontis sp. nov., a hyperthermophilic, sulfate-reducing bacterium isolated from Obsidian Pool, Yellowstone National Park. Extremophiles, 2013, 17, 251-263.	2.3	36
25	Continuous live cell imaging of cellulose attachment by microbes under anaerobic and thermophilic conditions using confocal microscopy. Journal of Environmental Sciences, 2013, 25, 849-856.	6.1	4
26	Characterizing the interplay between multiple levels of organization within bacterial sigma factor regulatory networks. Nature Communications, 2013, 4, 1755.	12.8	15
27	Complete Genome Sequence of the Hyperthermophilic Sulfate-Reducing Bacterium Thermodesulfobacterium geofontis OPF15 ^T. Genome Announcements, 2013, 1, e0016213.	0.8	4
28	Caldicellulosiruptor Core and Pangenomes Reveal Determinants for Noncellulosomal Thermophilic Deconstruction of Plant Biomass. Journal of Bacteriology, 2012, 194, 4015-4028.	2.2	96
29	Anaerobic High-Throughput Cultivation Method for Isolation of Thermophiles Using Biomass-Derived Substrates. , 2012, 908, 153-168.		11
30	Spatial and temporal dynamics of cellulose degradation and biofilm formation by Caldicellulosiruptor obsidiansis and Clostridium thermocellum. AMB Express, 2011, 1, 30.	3.0	34
31	Mathematical modeling of hydrolysate diffusion and utilization in cellulolytic biofilms of the extreme thermophile Caldicellulosiruptor obsidiansis. Bioresource Technology, 2011, 102, 3155-3162.	9.6	15
32	Engineered microbial systems for enhanced conversion of lignocellulosic biomass. Current Opinion in Biotechnology, 2010, 21, 657-662.	6.6	93
33	Caldicellulosiruptor obsidiansis sp. nov., an Anaerobic, Extremely Thermophilic, Cellulolytic Bacterium Isolated from Obsidian Pool, Yellowstone National Park. Applied and Environmental Microbiology, 2010, 76, 1014-1020.	3.1	91
34	Complete Genome Sequence of the Cellulolytic Thermophile Caldicellulosiruptor obsidiansis OB47 ^T. Journal of Bacteriology, 2010, 192, 6099-6100.	2.2	39
35	Controlled microfluidic production of alginate beads for in situ encapsulation of microbes. , 2009, , .		5
36	The complete genome sequence of Staphylothermus marinus reveals differences in sulfur metabolism among heterotrophic Crenarchaeota. BMC Genomics, 2009, 10, 145.	2.8	26

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37	A genomic analysis of the archaeal system Ignicoccus hospitalis-Nanoarchaeum equitans. Genome Biology, 2008, 9, R158.	8.8	104
38	A korarchaeal genome reveals insights into the evolution of the Archaea. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 8102-8107.	7.1	253
39	Genome Sequence of Thermofilum pendens Reveals an Exceptional Loss of Biosynthetic Pathways without Genome Reduction. Journal of Bacteriology, 2008, 190, 2957-2965.	2.2	53
40	Orthologs of the small RPB8 subunit of the eukaryotic RNA polymerases are conserved in hyperthermophilic Crenarchaeota and "Korarchaeota". Biology Direct, 2007, 2, 38.	4.6	39
41	Cultivating the uncultured. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 15681-15686.	7.1	721
42	Cloning and characterization of a second acid phosphatase from Sinorhizobium meliloti strain 104A14. Archives of Microbiology, 2001, 176, 255-263.	2.2	13
43	Factors Affecting Catalase Expression in Pseudomonas aeruginosa Biofilms and Planktonic Cells. Applied and Environmental Microbiology, 2001, 67, 1375-1379.	3.1	36
44	Effect of Catalase on Hydrogen Peroxide Penetration into Pseudomonas aeruginosa Biofilms. Applied and Environmental Microbiology, 2000, 66, 836-838.	3.1	161
45	Protective Role of Catalase in Pseudomonas aeruginosa Biofilm Resistance to Hydrogen Peroxide. Applied and Environmental Microbiology, 1999, 65, 4594-4600.	3.1	218
46	Quorum sensing in Pseudomonas aeruginosa controls expression of catalase and superoxide dismutase genes and mediates biofilm susceptibility to hydrogen peroxide. Molecular Microbiology, 1999, 34, 1082-1093.	2.5	379
47	[44] Pseudomonas aeruginosa biofilm sensitivity to biocides: Use of hydrogen peroxide as model antimicrobial agent for examining resistance mechanisms. Methods in Enzymology, 1999, 310, 599-608.	1.0	52
48	Expression and Regulation of Phosphate Stress Inducible Genes in Sinorhizobium meliloti. Molecular Plant-Microbe Interactions, 1998, 11, 1094-1101.	2.6	35