

James G Elkins

List of Publications by Year in descending order

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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	Cultivating the uncultured. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 15681-15686.	7.1	721
2	Quorum sensing in <i>Pseudomonas aeruginosa</i> controls expression of catalase and superoxide dismutase genes and mediates biofilm susceptibility to hydrogen peroxide. Molecular Microbiology, 1999, 34, 1082-1093.	2.5	379
3	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
4	Protective Role of Catalase in <i>Pseudomonas aeruginosa</i> Biofilm Resistance to Hydrogen Peroxide. Applied and Environmental Microbiology, 1999, 65, 4594-4600.	3.1	218
5	Effect of Catalase on Hydrogen Peroxide Penetration into <i>Pseudomonas aeruginosa</i> Biofilms. Applied and Environmental Microbiology, 2000, 66, 836-838.	3.1	161
6	The in vivo structure of biological membranes and evidence for lipid domains. PLoS Biology, 2017, 15, e2002214.	5.6	123
7	Metabolic engineering of <i>Caldicellulosiruptor bescii</i> yields increased hydrogen production from lignocellulosic biomass. Biotechnology for Biofuels, 2013, 6, 85.	6.2	111
8	A genomic analysis of the archaeal system <i>Ignicoccus hospitalis</i> - <i>Nanoarchaeum equitans</i> . Genome Biology, 2008, 9, R158.	8.8	104
9	<i>Caldicellulosiruptor</i> Core and Pangenomes Reveal Determinants for Noncellulosomal Thermophilic Deconstruction of Plant Biomass. Journal of Bacteriology, 2012, 194, 4015-4028.	2.2	96
10	Engineered microbial systems for enhanced conversion of lignocellulosic biomass. Current Opinion in Biotechnology, 2010, 21, 657-662.	6.6	93
11	<i>Caldicellulosiruptor obsidiansis</i> 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
12	Genome Sequence of <i>Thermofilum pendens</i> Reveals an Exceptional Loss of Biosynthetic Pathways without Genome Reduction. Journal of Bacteriology, 2008, 190, 2957-2965.	2.2	53
13	[44] <i>Pseudomonas aeruginosa</i> 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
14	Cellulosic ethanol production via consolidated bioprocessing at 75°C by engineered <i>Caldicellulosiruptor bescii</i> . Biotechnology for Biofuels, 2015, 8, 163.	6.2	52
15	Construction and Optimization of a Heterologous Pathway for Protocatechuate Catabolism in <i>Escherichia coli</i> Enables Bioconversion of Model Aromatic Compounds. Applied and Environmental Microbiology, 2017, 83, .	3.1	49
16	<i>Bacillus subtilis</i> Lipid Extract, A Branched-Chain Fatty Acid Model Membrane. Journal of Physical Chemistry Letters, 2017, 8, 4214-4217.	4.6	42
17	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
18	Complete Genome Sequence of the Cellulolytic Thermophile <i>Caldicellulosiruptor obsidiansis</i> OB47 ^T . Journal of Bacteriology, 2010, 192, 6099-6100.	2.2	39

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19	Development and characterization of stable anaerobic thermophilic methanogenic microbiomes fermenting switchgrass at decreasing residence times. <i>Biotechnology for Biofuels</i> , 2018, 11, 243.	6.2	37
20	Factors Affecting Catalase Expression in <i>Pseudomonas aeruginosa</i> Biofilms and Planktonic Cells. <i>Applied and Environmental Microbiology</i> , 2001, 67, 1375-1379.	3.1	36
21	<i>Thermodesulfobacterium geofontis</i> sp. nov., a hyperthermophilic, sulfate-reducing bacterium isolated from Obsidian Pool, Yellowstone National Park. <i>Extremophiles</i> , 2013, 17, 251-263.	2.3	36
22	Expression and Regulation of Phosphate Stress Inducible Genes in <i>Sinorhizobium meliloti</i> . <i>Molecular Plant-Microbe Interactions</i> , 1998, 11, 1094-1101.	2.6	35
23	Spatial and temporal dynamics of cellulose degradation and biofilm formation by <i>Caldicellulosiruptor obsidiansis</i> and <i>Clostridium thermocellum</i> . <i>AMB Express</i> , 2011, 1, 30.	3.0	34
24	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> , 2018, 84, .	3.1	33
25	Manufacturing demonstration of microbially mediated zinc sulfide nanoparticles in pilot-plant scale reactors. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 7921-7931.	3.6	32
26	Insights into the Evolution of Host Association through the Isolation and Characterization of a Novel Human Periodontal Pathobiont, <i>Desulfobulbus oralis</i> . <i>MBio</i> , 2018, 9, .	4.1	32
27	The complete genome sequence of <i>Staphylothermus marinus</i> reveals differences in sulfur metabolism among heterotrophic Crenarchaeota. <i>BMC Genomics</i> , 2009, 10, 145.	2.8	26
28	Pentose sugars inhibit metabolism and increase expression of an AgrD-type cyclic pentapeptide in <i>Clostridium thermocellum</i> . <i>Scientific Reports</i> , 2017, 7, 43355.	3.3	24
29	Expression of a heat-stable NADPH-dependent alcohol dehydrogenase in <i>Caldicellulosiruptor bescii</i> results in furan aldehyde detoxification. <i>Biotechnology for Biofuels</i> , 2015, 8, 102.	6.2	21
30	Community Analysis of Plant Biomass-Degrading Microorganisms from Obsidian Pool, Yellowstone National Park. <i>Microbial Ecology</i> , 2015, 69, 333-345.	2.8	20
31	A comparative multidimensional LC-MS proteomic analysis reveals mechanisms for furan aldehyde detoxification in <i>Thermoanaerobacter pseudethanolicus</i> 39E. <i>Biotechnology for Biofuels</i> , 2014, 7, 165.	6.2	17
32	Mathematical modeling of hydrolysate diffusion and utilization in cellulolytic biofilms of the extreme thermophile <i>Caldicellulosiruptor obsidiansis</i> . <i>Bioresource Technology</i> , 2011, 102, 3155-3162.	9.6	15
33	Characterizing the interplay between multiple levels of organization within bacterial sigma factor regulatory networks. <i>Nature Communications</i> , 2013, 4, 1755.	12.8	15
34	Expression of a heat-stable NADPH-dependent alcohol dehydrogenase from <i>Thermoanaerobacter pseudethanolicus</i> 39E in <i>Clostridium thermocellum</i> 1313 results in increased hydroxymethylfurfural resistance. <i>Biotechnology for Biofuels</i> , 2017, 10, 66.	6.2	15
35	The effect of switchgrass loadings on feedstock solubilization and biofuel production by <i>Clostridium thermocellum</i> . <i>Biotechnology for Biofuels</i> , 2017, 10, 233.	6.2	15
36	Implementation of a self-consistent slab model of bilayer structure in the <i>SasView</i> suite. <i>Journal of Applied Crystallography</i> , 2021, 54, 363-370.	4.5	15

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37	Cloning and characterization of a second acid phosphatase from <i>Sinorhizobium meliloti</i> strain 104A14. <i>Archives of Microbiology</i> , 2001, 176, 255-263.	2.2	13
38	Anaerobic High-Throughput Cultivation Method for Isolation of Thermophiles Using Biomass-Derived Substrates. , 2012, 908, 153-168.		11
39	Solvent-induced membrane stress in biofuel production: molecular insights from small-angle scattering and all-atom molecular dynamics simulations. <i>Green Chemistry</i> , 2020, 22, 8278-8288.	9.0	9
40	Impact of Fatty-Acid Labeling of <i>Bacillus subtilis</i> Membranes on the Cellular Lipidome and Proteome. <i>Frontiers in Microbiology</i> , 2020, 11, 914.	3.5	8
41	Determination of the cellulase activity distribution in <i>Clostridium thermocellum</i> and <i>Caldicellulosiruptor obsidiansis</i> cultures using a fluorescent substrate. <i>Journal of Environmental Sciences</i> , 2015, 34, 212-218.	6.1	6
42	Controlled microfluidic production of alginate beads for in situ encapsulation of microbes. , 2009, , .		5
43	Fermentation of Dilute Acid Pretreated Populus by <i>Clostridium thermocellum</i> , <i>Caldicellulosiruptor bescii</i> , and <i>Caldicellulosiruptor obsidiansis</i> . <i>Bioenergy Research</i> , 2015, 8, 1014-1021.	3.9	5
44	Continuous live cell imaging of cellulose attachment by microbes under anaerobic and thermophilic conditions using confocal microscopy. <i>Journal of Environmental Sciences</i> , 2013, 25, 849-856.	6.1	4
45	Complete Genome Sequence of the Hyperthermophilic Sulfate-Reducing Bacterium <i>Thermodesulfobacterium geofontis</i> OPF15 ^T . <i>Genome Announcements</i> , 2013, 1, e0016213.	0.8	4
46	Complete Genome Sequences of Four Natural <i>Pseudomonas</i> Isolates That Catabolize a Wide Range of Aromatic Compounds Relevant to Lignin Valorization. <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.6	1
47	n-Butanol or isobutanol as a value-added fuel additive to inhibit microbial degradation of stored gasoline. <i>Fuel Communications</i> , 2022, 12, 100072.	5.2	1
48	Complete Genome Sequence of <i>Caloramator</i> sp. Strain E03, a Novel Ethanologenic, Thermophilic, Obligately Anaerobic Bacterium. <i>Microbiology Resource Announcements</i> , 2019, 8, .	0.6	0