

Isaac Cann

List of Publications by Year in descending order

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57
papers

2,038
citations

331670

21
h-index

254184

43
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58
all docs

58
docs citations

58
times ranked

3138
citing authors

#	ARTICLE	IF	CITATIONS
1	The Genome of <i>M. acetivorans</i> Reveals Extensive Metabolic and Physiological Diversity. <i>Genome Research</i> , 2002, 12, 532-542.	5.5	573
2	Xylan degradation, a metabolic property shared by rumen and human colonic Bacteroidetes. <i>Molecular Microbiology</i> , 2011, 79, 292-304.	2.5	205
3	Xylan utilization in human gut commensal bacteria is orchestrated by unique modular organization of polysaccharide-degrading enzymes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E3708-17.	7.1	137
4	Diverse hydrogen production and consumption pathways influence methane production in ruminants. <i>ISME Journal</i> , 2019, 13, 2617-2632.	9.8	132
5	The <i>in vivo</i> lifestyle of bile acid 7 α -dehydroxylating bacteria: comparative genomics, metatranscriptomic, and bile acid metabolomics analysis of a defined microbial community in gnotobiotic mice. <i>Gut Microbes</i> , 2020, 11, 381-404.	9.8	80
6	Degradation of complex arabinoxylans by human colonic Bacteroidetes. <i>Nature Communications</i> , 2021, 12, 459.	12.8	68
7	Molecular and Biochemical Analyses of CbCel9A/Cel48A, a Highly Secreted Multi-Modular Cellulase by <i>Caldicellulosiruptor bescii</i> during Growth on Crystalline Cellulose. <i>PLoS ONE</i> , 2013, 8, e84172.	2.5	60
8	Cellulose degradation in the human gut: <i>Ruminococcus champanellensis</i> expands the cellulosome paradigm. <i>Environmental Microbiology</i> , 2016, 18, 307-310.	3.8	57
9	Two New Xylanases with Different Substrate Specificities from the Human Gut Bacterium <i>Bacteroides intestinalis</i> DSM 17393. <i>Applied and Environmental Microbiology</i> , 2014, 80, 2084-2093.	3.1	50
10	Bile acid oxidation by <i>Eggerthella lenta</i> strains C592 and DSM 2243 ^T . <i>Gut Microbes</i> , 2018, 9, 1-17.	9.8	48
11	Biochemical and Structural Insights into Xylan Utilization by the Thermophilic Bacterium <i>Caldanaerobius polysaccharolyticus</i> . <i>Journal of Biological Chemistry</i> , 2012, 287, 34946-34960.	3.4	47
12	A <i>Staphylococcus</i> pro-apoptotic peptide induces acute exacerbation of pulmonary fibrosis. <i>Nature Communications</i> , 2020, 11, 1539.	12.8	43
13	Functional Diversity of Four Glycoside Hydrolase Family 3 Enzymes from the Rumen Bacterium <i>Prevotella bryantii</i> B ₁ 4. <i>Journal of Bacteriology</i> , 2010, 192, 2335-2345.	2.2	40
14	<i>Bacteroides intestinalis</i> DSM 17393, a member of the human colonic microbiome, upregulates multiple endoxylanases during growth on xylan. <i>Scientific Reports</i> , 2016, 6, 34360.	3.3	39
15	Molecular dynamics study of enhanced Man5B enzymatic activity. <i>Biotechnology for Biofuels</i> , 2014, 7, 83.	6.2	36
16	Evolution of DNA Replication Protein Complexes in Eukaryotes and Archaea. <i>PLoS ONE</i> , 2010, 5, e10866.	2.5	30
17	Targeted Synthesis and Characterization of a Gene Cluster Encoding NAD(P)H-Dependent 3 α -, 3 β -, and 12 α -Hydroxysteroid Dehydrogenases from <i>Eggerthella</i> CAG:298, a Gut Metagenomic Sequence. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	27
18	Amelioration of Diabetes by Protein S. <i>Diabetes</i> , 2016, 65, 1940-1951.	0.6	25

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19	Orenia metallireducens sp. nov. Strain Z6, a Novel Metal-Reducing Member of the Phylum Firmicutes from the Deep Subsurface. Applied and Environmental Microbiology, 2016, 82, 6440-6453.	3.1	25
20	Biochemical and Structural Analyses of Two Cryptic Esterases in Bacteroides intestinalis and their Synergistic Activities with Cognate Xylanases. Journal of Molecular Biology, 2017, 429, 2509-2527.	4.2	25
21	Combined Genomic, Transcriptomic, Proteomic, and Physiological Characterization of the Growth of Pecoramyces sp. F1 in Monoculture and Co-culture With a Syntrophic Methanogen. Frontiers in Microbiology, 2019, 10, 435.	3.5	25
22	Generation of an E. coli platform strain for improved sucrose utilization using adaptive laboratory evolution. Microbial Cell Factories, 2019, 18, 116.	4.0	22
23	Structural and biochemical characterization of 20 β -hydroxysteroid dehydrogenase from Bifidobacterium adolescentis strain L2-32. Journal of Biological Chemistry, 2019, 294, 12040-12053.	3.4	22
24	Diversity of the DNA Replication System in the Archaea Domain. Archaea, 2014, 2014, 1-15.	2.3	17
25	Anti-apoptotic activity of human matrix metalloproteinase-2 attenuates diabetes mellitus. Metabolism: Clinical and Experimental, 2018, 82, 88-99.	3.4	17
26	Identification of methanogenesis and syntrophy as important microbial metabolic processes for optimal thermophilic anaerobic digestion of energy cane thin stillage. Bioresource Technology Reports, 2019, 7, 100254.	2.7	17
27	Degradation Products of Complex Arabinoxylans by Bacteroides intestinalis Enhance the Host Immune Response. Microorganisms, 2021, 9, 1126.	3.6	16
28	Inhibition of lung microbiota-derived proapoptotic peptides ameliorates acute exacerbation of pulmonary fibrosis. Nature Communications, 2022, 13, 1558.	12.8	16
29	Identification of Halophilic Microbes in Lung Fibrotic Tissue by Oligotyping. Frontiers in Microbiology, 2018, 9, 1892.	3.5	15
30	Metagenomic-Based Study of the Phylogenetic and Functional Gene Diversity in Galápagos Land and Marine Iguanas. Microbial Ecology, 2015, 69, 444-456.	2.8	14
31	Structural and Biochemical Basis for Mannan Utilization by Caldanaerobius polysaccharolyticus Strain ATCC BAA-17. Journal of Biological Chemistry, 2014, 289, 34965-34977.	3.4	13
32	Thermophilic Degradation of Hemicellulose, a Critical Feedstock in the Production of Bioenergy and Other Value-Added Products. Applied and Environmental Microbiology, 2020, 86, .	3.1	13
33	Enzymatic Mechanism for Arabinan Degradation and Transport in the Thermophilic Bacterium Caldanaerobius polysaccharolyticus. Applied and Environmental Microbiology, 2017, 83, .	3.1	12
34	Multiple cellobiohydrolases and cellobiose phosphorylases cooperate in the ruminal bacterium Ruminococcus albus 8 to degrade cellooligosaccharides. Scientific Reports, 2016, 6, 35342.	3.3	11
35	Functional and modular analyses of diverse endoglucanases from Ruminococcus albus 8, a specialist plant cell wall degrading bacterium. Scientific Reports, 2016, 6, 29979.	3.3	11
36	Sas20 is a highly flexible starch-binding protein in the Ruminococcus bromii cell-surface amylosome. Journal of Biological Chemistry, 2022, 298, 101896.	3.4	11

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37	Mutational and Structural Analyses of <i>Caldanaerobius polysaccharolyticus</i> Man5B Reveal Novel Active Site Residues for Family 5 Glycoside Hydrolases. <i>PLoS ONE</i> , 2013, 8, e80448.	2.5	9
38	A Microbiome-Derived Peptide Induces Apoptosis of Cells from Different Tissues. <i>Cells</i> , 2021, 10, 2885.	4.1	7
39	Let them eat fruit. <i>Nature Microbiology</i> , 2018, 3, 127-129.	13.3	6
40	Xylan Deconstruction by Thermophilic <i>Thermoanaerobacterium bryantii</i> Hemicellulases Is Stimulated by Two Oxidoreductases. <i>Catalysts</i> , 2022, 12, 182.	3.5	4
41	The ASM Journals Committee Values the Contributions of Black Microbiologists. <i>MBio</i> , 2020, 11, .	4.1	3
42	The ASM Journals Committee Values the Contributions of Black Microbiologists. <i>Journal of Microbiology and Biology Education</i> , 2020, 21, .	1.0	2
43	The ASM Journals Committee Values the Contributions of Black Microbiologists. <i>Journal of Clinical Microbiology</i> , 2020, 58, .	3.9	1
44	The ASM Journals Committee Values the Contributions of Black Microbiologists. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	3.1	1
45	The ASM Journals Committee Values the Contributions of Black Microbiologists. <i>MSphere</i> , 2020, 5, .	2.9	1
46	The ASM Journals Committee Values the Contributions of Black Microbiologists. <i>Clinical Microbiology Reviews</i> , 2020, 33, .	13.6	1
47	The ASM Journals Committee Values the Contributions of Black Microbiologists. <i>Infection and Immunity</i> , 2020, 88, .	2.2	0
48	The ASM Journals Committee Values the Contributions of Black Microbiologists. <i>Microbiology Spectrum</i> , 2020, 8, .	3.0	0
49	The ASM Journals Committee Values the Contributions of Black Microbiologists. <i>Antimicrobial Agents and Chemotherapy</i> , 2020, 64, .	3.2	0
50	The ASM Journals Committee Values the Contributions of Black Microbiologists. <i>Journal of Virology</i> , 2020, 94, .	3.4	0
51	The ASM Journals Committee Values the Contributions of Black Microbiologists. <i>Journal of Bacteriology</i> , 2020, 202, .	2.2	0
52	The ASM Journals Committee Values the Contributions of Black Microbiologists. <i>Microbiology and Molecular Biology Reviews</i> , 2020, 84, .	6.6	0
53	The ASM Journals Committee Values the Contributions of Black Microbiologists. <i>MSystems</i> , 2020, 5, .	3.8	0
54	The ASM Journals Committee Values the Contributions of Black Microbiologists. <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.6	0

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55	Structure and Function of a Novel Biâ€Functional Xylanaseâ€Esterase. FASEB Journal, 2010, 24, lb213.	0.5	0
56	The ASM Journals Committee Values the Contributions of Black Microbiologists. Molecular and Cellular Biology, 2020, 40, .	2.3	0
57	Complete Genome Sequences of Three Staphylococcus haemolyticus Strains Isolated from the Lung of a TGFÎ²1 Transgenic Mouse with Lung Fibrosis. Microbiology Resource Announcements, 2022, , e0117621.	0.6	0