

Frank R Bengelsdorf

List of Publications by Year in descending order

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42
papers

1,415
citations

393982

19
h-index

329751

37
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44
all docs

44
docs citations

44
times ranked

1249
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel synthetic co-culture of <i>Acetobacterium woodii</i> and <i>Clostridium drakei</i> using CO ₂ and in situ generated H ₂ for the production of caproic acid via lactic acid. <i>Engineering in Life Sciences</i> , 2023, 23, .	2.0	7
2	Autotrophic lactate production from H ₂ +CO ₂ using recombinant and fluorescent FAST-tagged <i>Acetobacterium woodii</i> strains. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 1447-1458.	1.7	17
3	Identifying and Engineering Bottlenecks of Autotrophic Isobutanol Formation in Recombinant <i>C. ljungdahlii</i> by Systemic Analysis. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 647853.	2.0	10
4	Isobutanol Production by Autotrophic Acetogenic Bacteria. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 657253.	2.0	16
5	Production of the biocommodities butanol and acetone from methanol with fluorescent FAST-tagged proteins using metabolically engineered strains of <i>Eubacterium limosum</i> . <i>Biotechnology for Biofuels</i> , 2021, 14, 117.	6.2	36
6	Induced heterologous expression of the arginine deiminase pathway promotes growth advantages in the strict anaerobe <i>Acetobacterium woodii</i> . <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 687-699.	1.7	23
7	Electron availability in CO ₂ , CO and H ₂ mixtures constrains flux distribution, energy management and product formation in <i>Clostridium ljungdahlii</i> . <i>Microbial Biotechnology</i> , 2020, 13, 1831-1846.	2.0	27
8	<i>Caproicibacter fermentans</i> gen. nov., sp. nov., a new caproate-producing bacterium and emended description of the genus <i>Caproiciproducens</i> . <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2020, 70, 4269-4279.	0.8	49
9	Biokatalytische Konversion. , 2020, , 99-119.		0
10	Genome Sequence of the Caproic Acid-Producing Bacterium <i>Caproiciproducens galactitolivorans</i> BS-1 (JCM 30532). <i>Microbiology Resource Announcements</i> , 2019, 8, .	0.3	18
11	Anaerobic Production of Poly(3-hydroxybutyrate) and Its Precursor 3-Hydroxybutyrate from Synthesis Gas by Autotrophic Clostridia. <i>Biomacromolecules</i> , 2019, 20, 3271-3282.	2.6	46
12	Different response of bacteria, archaea and fungi to process parameters in nine full-scale anaerobic digesters. <i>Microbial Biotechnology</i> , 2019, 12, 1210-1225.	2.0	23
13	Genome-Based Comparison of All Species of the Genus <i>Moorella</i> , and Status of the Species <i>Moorella thermoacetica</i> and <i>Moorella thermoautotrophica</i> . <i>Frontiers in Microbiology</i> , 2019, 10, 3070.	1.5	12
14	Bacterial Anaerobic Synthesis Gas (Syngas) and CO ₂ + H ₂ Fermentation. <i>Advances in Applied Microbiology</i> , 2018, 103, 143-221.	1.3	118
15	Using gas mixtures of CO, CO ₂ and H ₂ as microbial substrates: the do's and don'ts of successful technology transfer from laboratory to production scale. <i>Microbial Biotechnology</i> , 2018, 11, 606-625.	2.0	126
16	Genome Sequence of <i>Enterococcus faecalis</i> Strain CG_E. <i>Genome Announcements</i> , 2017, 5, .	0.8	0
17	Complete Genome Sequence of the Autotrophic Acetogen <i>Clostridium formicaceticum</i> DSM 92 (JCM 10000) Using Nanopore and Illumina Sequencing Data. <i>Genome Announcements</i> , 2017, 5, .	0.8	12
18	Gas fermentation for commodity chemicals and fuels. <i>Microbial Biotechnology</i> , 2017, 10, 1167-1170.	2.0	47

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19	Genome sequencing and description of <i>Oerskovia enterophila</i> VJag, an agar- and cellulose-degrading bacterium. <i>Standards in Genomic Sciences</i> , 2017, 12, 30.	1.5	2
20	Genome Sequence of <i>Lactobacillus sunkii</i> Strain CG_D. <i>Genome Announcements</i> , 2017, 5, .	0.8	0
21	Genome Sequence of the Facultative Anaerobe <i>Oerskovia enterophila</i> DFA-19 (DSM 43852 ^T). <i>Genome Announcements</i> , 2017, 5, .	0.8	0
22	Genome Sequence of the Acetogenic Bacterium <i>Butyribacterium methylotrophicum</i> DSM 3468 ^T . <i>Genome Announcements</i> , 2016, 4, .	0.8	13
23	Industrial Acetogenic Biocatalysts: A Comparative Metabolic and Genomic Analysis. <i>Frontiers in Microbiology</i> , 2016, 7, 1036.	1.5	85
24	Genome Sequence of the Acetogenic Bacterium <i>Acetobacterium wieringae</i> DSM 1911 ^T . <i>Genome Announcements</i> , 2016, 4, .	0.8	12
25	Draft Genome Sequence of the Strict Anaerobe <i>Clostridium neopropionicum</i> X4 (DSM 3847 T). <i>Genome Announcements</i> , 2016, 4, .	0.8	6
26	Improved operating strategy for continuous fermentation of carbon monoxide to fuel-ethanol by clostridia. <i>Applied Energy</i> , 2016, 169, 210-217.	5.1	55
27	Acetone production with metabolically engineered strains of <i>Acetobacterium woodii</i> . <i>Metabolic Engineering</i> , 2016, 36, 37-47.	3.6	111
28	Functionally redundant but dissimilar microbial communities within biogas reactors treating maize silage in co-fermentation with sugar beet silage. <i>Microbial Biotechnology</i> , 2015, 8, 828-836.	2.0	31
29	Complete Genome Sequence of Rnf- and Cytochrome-Containing Autotrophic Acetogen <i>Clostridium aceticum</i> DSM 1496. <i>Genome Announcements</i> , 2015, 3, .	0.8	11
30	Complete Genome Sequence of the Acetogenic Bacterium <i>Moorella thermoacetica</i> DSM 2955 ^T . <i>Genome Announcements</i> , 2015, 3, .	0.8	21
31	Draft Genome Sequence of Purine-Degrading <i>Clostridium cylindrosporium</i> HC-1 (DSM 605). <i>Genome Announcements</i> , 2015, 3, .	0.8	6
32	Draft Genome Sequence of Purine-Degrading <i>Gottschalkia purinilyticum</i> (Formerly <i>Clostridium</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22	0.8	4
33	Draft Genome Sequence of the Strict Anaerobe <i>Clostridium homopropionicum</i> LuHBu1 (DSM 5847). <i>Genome Announcements</i> , 2015, 3, .	0.8	4
34	Complete Genome Sequence of the Type Strain of the Acetogenic Bacterium <i>Moorella thermoacetica</i> DSM 521 ^T . <i>Genome Announcements</i> , 2015, 3, .	0.8	25
35	Genome Sequence of the Acetogenic Bacterium <i>Oxobacter pfennigii</i> DSM 3222 ^T . <i>Genome Announcements</i> , 2015, 3, .	0.8	17
36	The Complete Genome Sequence of <i>Clostridium aceticum</i> : a Missing Link between Rnf- and Cytochrome-Containing Autotrophic Acetogens. <i>MBio</i> , 2015, 6, e01168-15.	1.8	75

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37	Analysis of the key enzymes of butyric and acetic acid fermentation in biogas reactors. <i>Microbial Biotechnology</i> , 2015, 8, 865-873.	2.0	14
38	Syntrophic microbial communities on straw as biofilm carrier increase the methane yield of a biowaste-digesting biogas reactor. <i>AIMS Bioengineering</i> , 2015, 2, 264-276.	0.6	13
39	Dynamics of biofilm formation during anaerobic digestion of organic waste. <i>Anaerobe</i> , 2014, 29, 44-51.	1.0	46
40	Fungi open new possibilities for anaerobic fermentation of organic residues. <i>Energy, Sustainability and Society</i> , 2014, 4, .	1.7	41
41	Bacterial synthesis gas (syngas) fermentation. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 1639-1651.	1.2	187
42	Stability of a biogas-producing bacterial, archaeal and fungal community degrading food residues. <i>FEMS Microbiology Ecology</i> , 2013, 84, 201-212.	1.3	44