

Sumit Singh Dagar

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,473
citations

471509

17
h-index

361022

35
g-index

42
all docs

42
docs citations

42
times ranked

1410
citing authors

#	ARTICLE	IF	CITATIONS
1	Anaerobic fungi (phylum <i>Neocallimastigomycota</i>): advances in understanding their taxonomy, life cycle, ecology, role and biotechnological potential. <i>FEMS Microbiology Ecology</i> , 2014, 90, 1-17.	2.7	298
2	New aspects and strategies for methane mitigation from ruminants. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 31-44.	3.6	120
3	PCR and Omics Based Techniques to Study the Diversity, Ecology and Biology of Anaerobic Fungi: Insights, Challenges and Opportunities. <i>Frontiers in Microbiology</i> , 2017, 8, 1657.	3.5	118
4	<i>Buwchfawromyces eastonii</i> gen. nov., sp. nov.: a new anaerobic fungus (<i>Neocallimastigomycota</i>) isolated from buffalo faeces. <i>MycKeys</i> , 0, 9, 11-28.	1.9	95
5	Factors affecting rumen methanogens and methane mitigation strategies. <i>World Journal of Microbiology and Biotechnology</i> , 2009, 25, 1557-1566.	3.6	75
6	A new anaerobic fungus (<i>Oontomyces anksri</i> gen. nov., sp. nov.) from the digestive tract of the Indian camel (<i>Camelus dromedarius</i>). <i>Fungal Biology</i> , 2015, 119, 731-737.	2.5	71
7	D1/D2 Domain of Large-Subunit Ribosomal DNA for Differentiation of <i>Orpinomyces</i> spp. <i>Applied and Environmental Microbiology</i> , 2011, 77, 6722-6725.	3.1	62
8	Horizontal Gene Transfer as an Indispensable Driver for Evolution of <i>Neocallimastigomycota</i> into a Distinct Gut-Dwelling Fungal Lineage. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	3.1	61
9	Molecular tools for deciphering the microbial community structure and diversity in rumen ecosystem. <i>Applied Microbiology and Biotechnology</i> , 2012, 95, 1135-1154.	3.6	54
10	<i>Liebetanzomyces polymorphus</i> gen. et sp. nov., a new anaerobic fungus (<i>Neocallimastigomycota</i>) isolated from the rumen of a goat. <i>MycKeys</i> , 2018, 40, 89-110.	1.9	52
11	Seven new <i>Neocallimastigomycota</i> genera from wild, zoo-housed, and domesticated herbivores greatly expand the taxonomic diversity of the phylum. <i>Mycologia</i> , 2020, 112, 1212-1239.	1.9	50
12	Microbial profiles, in vitro gas production and dry matter digestibility based on various ratios of roughage to concentrate. <i>Annals of Microbiology</i> , 2013, 63, 541-545.	2.6	47
13	Role of live microbial feed supplements with reference to anaerobic fungi in ruminant productivity: A review. <i>Journal of Integrative Agriculture</i> , 2015, 14, 550-560.	3.5	46
14	Changes in methane emission, rumen fermentation in response to diet and microbial interactions. <i>Research in Veterinary Science</i> , 2013, 94, 263-268.	1.9	33
15	Isolation and characterization of methanogens from rumen of Murrah buffalo. <i>Annals of Microbiology</i> , 2012, 62, 345-350.	2.6	30
16	Ribosomal ITS1 sequence-based diversity analysis of anaerobic rumen fungi in cattle fed on high fiber diet. <i>Annals of Microbiology</i> , 2013, 63, 1571-1577.	2.6	25
17	Isolation, characterization and fibre degradation potential of anaerobic rumen fungi from cattle. <i>Annals of Microbiology</i> , 2013, 63, 1187-1194.	2.6	22
18	Bioaugmentation of anaerobic fungus <i>Orpinomyces joyonii</i> boosts sustainable biomethanation of rice straw without pretreatment. <i>Biomass and Bioenergy</i> , 2020, 138, 105546.	5.7	20

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19	Cultivation of multiple genera of hydrogenotrophic methanogens from different environmental niches. <i>Anaerobe</i> , 2018, 50, 64-68.	2.1	19
20	Enumeration of methanogens with a focus on fluorescence in situ hybridization. <i>Die Naturwissenschaften</i> , 2011, 98, 457-472.	1.6	17
21	Meta-omics based analyses of microbiome involved in biomethanation of rice straw in a thermophilic anaerobic bioreactor under optimized conditions. <i>Bioresource Technology</i> , 2019, 279, 25-33.	9.6	17
22	Illustration of the microbial community selected by optimized process and nutritional parameters resulting in enhanced biomethanation of rice straw without thermo-chemical pretreatment. <i>Bioresource Technology</i> , 2019, 289, 121639.	9.6	17
23	Xylanolytic and Ethanologenic Potential of Gut Associated Yeasts from Different Species of Termites from India. <i>Mycobiology</i> , 2020, 48, 501-511.	1.7	16
24	Comparative evaluation of lignocellulolytic activities of filamentous cultures of monocentric and polycentric anaerobic fungi. <i>Anaerobe</i> , 2018, 50, 76-79.	2.1	14
25	Taxonomy of the anaerobic gut fungi (Neocallimastigomycota): a review of classification criteria and description of current taxa. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2022, 72, .	1.7	11
26	Genomic architecture of three newly isolated unclassified <i>Butyrivibrio</i> species elucidate their potential role in the rumen ecosystem. <i>Genomics</i> , 2022, 114, 110281.	2.9	9
27	β-Glucosidase Activity of Lactobacilli for Biotransformation of Soy Isoflavones. <i>Food Biotechnology</i> , 2012, 26, 154-163.	1.5	8
28	Role of anaerobic fungi in wheat straw degradation and effects of plant feed additives on rumen fermentation parameters in vitro. <i>Beneficial Microbes</i> , 2015, 6, 353-360.	2.4	8
29	Comparative diversity analysis of ruminal methanogens in Murrah buffaloes (<i>Bubalus bubalis</i>) in four states of North India. <i>Anaerobe</i> , 2018, 52, 59-63.	2.1	7
30	Buffalo rumen harbours diverse thermotolerant yeasts capable of producing second-generation bioethanol from lignocellulosic biomass. <i>Renewable Energy</i> , 2021, 173, 795-807.	8.9	7
31	Genome sequencing and analysis of a psychrotrophic methanogen <i>Methanosarcina</i> sp. nov. MSH10X1 cultured from methane hydrate deposits of Krishna Godavari Basin of India. <i>Marine Genomics</i> , 2021, 59, 100864.	1.1	7
32	Genomic Analysis of <i>Actinomyces</i> sp. Strain CtC72, a Novel Fibrolytic Anaerobic Bacterium Isolated from Cattle Rumen. <i>Microbiology and Biotechnology Letters</i> , 2018, 46, 59-67.	0.4	7
33	Morphological variation in the porcelaneous benthic foraminifer <i>Quinqueloculina seminula</i> (Linnaeus, 1758): Genotypes or Morphotypes? A detailed morphotaxonomic, molecular and ecological investigation. <i>Marine Micropaleontology</i> , 2019, 150, 101748.	1.2	6
34	Editorial: Advances in the Understanding of the Commensal Eukaryota and Viruses of the Herbivore Gut. <i>Frontiers in Microbiology</i> , 2021, 12, 619287.	3.5	5
35	Prospective use of bacteriocinogenic <i>Pediococcus pentosaceus</i> as direct-fed microbial having methane reducing potential. <i>Journal of Integrative Agriculture</i> , 2015, 14, 561-566.	3.5	4
36	Compost as an untapped niche for thermotolerant yeasts capable of high-temperature ethanol production. <i>Letters in Applied Microbiology</i> , 2022, 74, 109-121.	2.2	3

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37	Genomics and simulated laboratory studies reveal <i>Thermococcus</i> sp. 101C5 as a novel hyperthermophilic archaeon possessing a specialized metabolic arsenal for enhanced oil recovery. <i>Antonie Van Leeuwenhoek</i> , 2022, 115, 19-31.	1.7	1
38	Antiparasitics from Microorganisms. <i>Environmental Chemistry for A Sustainable World</i> , 2019, , 27-47.	0.5	0