

Biswarup Mukhopadhyay

List of Publications by Year in descending order

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68
papers

2,436
citations

218677

26
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206112

48
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all docs

73
docs citations

73
times ranked

2718
citing authors

#	ARTICLE	IF	CITATIONS
1	Dominant remodelling of cattle rumen microbiome by <i>Schedonorus arundinaceus</i> (tall fescue) KY-31 carrying a fungal endophyte. <i>Access Microbiology</i> , 2022, 4, 000322.	0.5	2
2	Reduced protein sequence patterns in identifying key structural elements of dissimilatory sulfite reductase homologs. <i>Computational Biology and Chemistry</i> , 2022, 98, 107691.	2.3	1
3	A Reduced F ₄₂₀ -Dependent Nitrite Reductase in an Anaerobic Methanotrophic Archaeon. <i>Journal of Bacteriology</i> , 2022, 204, .	2.2	3
4	Elucidation of structure–function relationships in <i>Methanocaldococcus jannaschii</i> RNase P, a multi-subunit catalytic ribonucleoprotein. <i>Nucleic Acids Research</i> , 2022, 50, 8154-8167.	14.5	5
5	Whole genome sequence analysis reveals the broad distribution of the RtxA type 1 secretion system and four novel putative type 1 secretion systems throughout the <i>Legionella</i> genus. <i>PLoS ONE</i> , 2020, 15, e0223033.	2.5	5
6	Title is missing!. , 2020, 15, e0223033.		0
7	Title is missing!. , 2020, 15, e0223033.		0
8	Title is missing!. , 2020, 15, e0223033.		0
9	Title is missing!. , 2020, 15, e0223033.		0
10	A Genetic System for <i>Methanocaldococcus jannaschii</i> : An Evolutionary Deeply Rooted Hyperthermophilic Methanarchaeon. <i>Frontiers in Microbiology</i> , 2019, 10, 1256.	3.5	22
11	Tn2008-driven carbapenem resistance in <i>Acinetobacter baumannii</i> isolates from a period of increased incidence of infections in a Southwest Virginia hospital (USA). <i>Journal of Global Antimicrobial Resistance</i> , 2018, 12, 79-87.	2.2	9
12	Comparative Genomics and Proteomic Analysis of Assimilatory Sulfate Reduction Pathways in Anaerobic Methanotrophic Archaea. <i>Frontiers in Microbiology</i> , 2018, 9, 2917.	3.5	33
13	Coenzyme F ₄₂₀ -Dependent Glucose-6-Phosphate Dehydrogenase-Coupled Polyglutamylation of Coenzyme F ₄₂₀ in <i>Mycobacteria</i> . <i>Journal of Bacteriology</i> , 2018, 200, .	2.2	7
14	Complete Genome Sequence of <i>Bordetella pertussis</i> Pelita III, the Production Strain for an Indonesian Whole-Cell Pertussis Vaccine. <i>Genome Announcements</i> , 2017, 5, .	0.8	2
15	Permanent Draft Genome Sequence of <i>Desulfurococcus amylolyticus</i> Strain Z-533 ^T , a Peptide and Starch Degradar Isolated from Thermal Springs in the Kamchatka Peninsula and Kunashir Island, Russia. <i>Genome Announcements</i> , 2017, 5, .	0.8	2
16	A Reexamination of Thioredoxin Reductase from <i>Thermoplasma acidophilum</i> , a Thermoacidophilic Euryarchaeon, Identifies It as an NADH-Dependent Enzyme. <i>ACS Omega</i> , 2017, 2, 4180-4187.	3.5	9
17	Proline utilization system is required for infection by the pathogenic $\hat{\pm}$ -proteobacterium <i>Brucella abortus</i> . <i>Microbiology (United Kingdom)</i> , 2017, 163, 970-979.	1.8	16
18	Engineered Microbial Production of 2-Pyrone-4,6-Dicarboxylic Acid from Lignin Residues for Use as an Industrial Platform Chemical. <i>BioResources</i> , 2016, 11, .	1.0	30

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19	F ₄₂₀ H ₂ Is Required for Phthiocerol Dimycocerosate Synthesis in Mycobacteria. <i>Journal of Bacteriology</i> , 2016, 198, 2020-2028.	2.2	15
20	Understanding of Genetic Code Degeneracy and New Way of Classifying of Protein Family: A Mathematical Approach. , 2016, , .		2
21	A Novel F420-dependent Thioredoxin Reductase Gated by Low Potential FAD. <i>Journal of Biological Chemistry</i> , 2016, 291, 23084-23100.	3.4	22
22	Permanent draft genome sequence of <i>Desulfurococcus mobilis</i> type strain DSM 2161, a thermoacidophilic sulfur-reducing crenarchaeon isolated from acidic hot springs of Hveravellir, Iceland. <i>Standards in Genomic Sciences</i> , 2016, 11, 3.	1.5	2
23	Reclassification of <i>Desulfurococcus mobilis</i> as a synonym of <i>Desulfurococcus mucosus</i> , <i>Desulfurococcus fermentans</i> and <i>Desulfurococcus kamchatkensis</i> as synonyms of <i>Desulfurococcus amylolyticus</i> , and emendation of the <i>D. mucosus</i> and <i>D. amylolyticus</i> species descriptions. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2016. 66. 514-517.	1.7	16
24	352Clinical and molecular characteristics of NDM-1 harboring Multi-Drug Resistant Gram Negative Bacteria at Carilion Medical Center. <i>Open Forum Infectious Diseases</i> , 2014, 1, S139-S140.	0.9	0
25	Thioredoxin targets fundamental processes in a methane-producing archaeon, <i>Methanocaldococcus jannaschii</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 2608-2613.	7.1	41
26	Genetic resources for advanced biofuel production described with the Gene Ontology. <i>Frontiers in Microbiology</i> , 2014, 5, 528.	3.5	18
27	Genetic resources for methane production from biomass described with the Gene Ontology. <i>Frontiers in Microbiology</i> , 2014, 5, 634.	3.5	16
28	Ferredoxin:thioredoxin reductase (FTR) links the regulation of oxygenic photosynthesis to deeply rooted bacteria. <i>Planta</i> , 2013, 237, 619-635.	3.2	31
29	Rv0132c of <i>Mycobacterium tuberculosis</i> Encodes a Coenzyme F420-Dependent Hydroxymycolic Acid Dehydrogenase. <i>PLoS ONE</i> , 2013, 8, e81985.	2.5	36
30	Complete Genome Sequence of <i>Desulfurococcus fermentans</i> , a Hyperthermophilic Cellulolytic Crenarchaeon Isolated from a Freshwater Hot Spring in Kamchatka, Russia. <i>Journal of Bacteriology</i> , 2012, 194, 5703-5704.	2.2	15
31	An Intertwined Evolutionary History of Methanogenic Archaea and Sulfate Reduction. <i>PLoS ONE</i> , 2012, 7, e45313.	2.5	41
32	Structure of an archaeal α -type phosphoenolpyruvate carboxylase sensitive to inhibition by aspartate. <i>Proteins: Structure, Function and Bioinformatics</i> , 2011, 79, 1820-1829.	2.6	6
33	Ribosomal protein L7Ae is a subunit of archaeal RNase P. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 14573-14578.	7.1	71
34	Characterization of an NADH oxidase of the flavin-dependent disulfide reductase family from <i>Methanocaldococcus jannaschii</i> . <i>Microbiology (United Kingdom)</i> , 2009, 155, 69-79.	1.8	23
35	Conversion of NO ₂ to NO by reduced coenzyme F ₄₂₀ protects mycobacteria from nitrosative damage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 6333-6338.	7.1	70
36	TmpL, a Transmembrane Protein Required for Intracellular Redox Homeostasis and Virulence in a Plant and an Animal Fungal Pathogen. <i>PLoS Pathogens</i> , 2009, 5, e1000653.	4.7	62

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37	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
38	Expression, purification and crystallization of an archaeal-type phosphoenolpyruvate carboxylase. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2009, 65, 1193-1196.	0.7	2
39	Genomic Characterization of Methanomicrobiales Reveals Three Classes of Methanogens. <i>PLoS ONE</i> , 2009, 4, e5797.	2.5	103
40	Tyr235 of human cytosolic phosphoenolpyruvate carboxykinase influences catalysis through an anion-π quadrupole interaction with phosphoenolpyruvate carboxylate. <i>FEBS Journal</i> , 2008, 275, 5810-5819.	4.7	11
41	Coenzyme F ₄₂₀ -Dependent Sulfite Reductase-Enabled Sulfite Detoxification and Use of Sulfite as a Sole Sulfur Source by <i>Methanococcus maripaludis</i> . <i>Applied and Environmental Microbiology</i> , 2008, 74, 3591-3595.	3.1	41
42	Genome Sequence of <i>Thermofilum pendens</i> Reveals an Exceptional Loss of Biosynthetic Pathways without Genome Reduction. <i>Journal of Bacteriology</i> , 2008, 190, 2957-2965.	2.2	53
43	A Novel Coenzyme F ₄₂₀ Dependent Sulfite Reductase and a Small Sulfite Reductase in Methanogenic Archaea. , 2008, , 202-216.		7
44	Kinetic characterization of recombinant human cytosolic phosphoenolpyruvate carboxykinase with and without a His10-tag. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2007, 1770, 1576-1584.	2.4	14
45	Roles of Asp75, Asp78, and Glu83 of GTP-dependent Phosphoenolpyruvate Carboxykinase from <i>Mycobacterium smegmatis</i> . <i>Journal of Biological Chemistry</i> , 2006, 281, 39262-39272.	3.4	8
46	Establishment of a Gene Expression System in <i>Ochrobactrum anthropi</i> . <i>Applied and Environmental Microbiology</i> , 2006, 72, 6833-6836.	3.1	8
47	Identification of Pyruvate Carboxylase Genes in <i>Pseudomonas aeruginosa</i> PAO1 and Development of a <i>P. aeruginosa</i> -Based Overexpression System for I ₄ - and I ₄ ² -Type Pyruvate Carboxylases. <i>Applied and Environmental Microbiology</i> , 2006, 72, 7785-7792.	3.1	21
48	Genetic analysis of <i>mch</i> mutants in two <i>Methanosarcina</i> species demonstrates multiple roles for the methanopterin-dependent C-1 oxidation/reduction pathway and differences in H ₂ metabolism between closely related species. <i>Molecular Microbiology</i> , 2005, 55, 1671-1680.	2.5	59
49	A New Type of Sulfite Reductase, a Novel Coenzyme F ₄₂₀ -dependent Enzyme, from the Methanarchaeon <i>Methanocaldococcus jannaschii</i> *. <i>Journal of Biological Chemistry</i> , 2005, 280, 38776-38786.	3.4	87
50	The Phosphoenolpyruvate Carboxylase from <i>Methanothermobacter thermautotrophicus</i> Has a Novel Structure. <i>Journal of Bacteriology</i> , 2004, 186, 5129-5137.	2.2	30
51	Construction of a hybrid quadrupole/fourier transform ion cyclotron resonance mass spectrometer for versatile MS/MS above 10 kDa. <i>Journal of the American Society for Mass Spectrometry</i> , 2004, 15, 1099-1108.	2.8	107
52	The Genome of <i>M. acetivorans</i> Reveals Extensive Metabolic and Physiological Diversity. <i>Genome Research</i> , 2002, 12, 532-542.	5.5	573
53	An aminoacyl tRNA synthetase whose sequence fits into neither of the two known classes. <i>Nature</i> , 2001, 411, 110-114.	27.8	46
54	A GTP-dependent Vertebrate-type Phosphoenolpyruvate Carboxykinase from <i>Mycobacterium smegmatis</i> . <i>Journal of Biological Chemistry</i> , 2001, 276, 16137-16145.	3.4	42

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55	Oxaloacetate Synthesis in the Methanarchaeon <i>Methanosarcina barkeri</i> : Pyruvate Carboxylase Genes and a Putative <i>Escherichia coli</i> -Type Bifunctional Biotin Protein Ligase Gene (<i>bpl/birA</i>) Exhibit a Unique Organization. <i>Journal of Bacteriology</i> , 2001, 183, 3804-3810.	2.2	24
56	A stable archaeal pyruvate carboxylase from the hyperthermophile <i>Methanococcus jannaschii</i> . <i>Archives of Microbiology</i> , 2000, 174, 406-414.	2.2	26
57	A novel p _H ² control on the expression of flagella in the hyperthermophilic strictly hydrogenotrophic methanarchaeon <i>Methanococcus jannaschii</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 11522-11527.	7.1	82
58	Pyruvate carboxylase from <i>Mycobacterium smegmatis</i> : stabilization, rapid purification, molecular and biochemical characterization and regulation of the cellular level. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2000, 1475, 191-206.	2.4	32
59	Conditions for Vigorous Growth on Sulfide and Reactor-Scale Cultivation Protocols for the Thermophilic Green Sulfur Bacterium <i>Chlorobium tepidum</i> . <i>Applied and Environmental Microbiology</i> , 1999, 65, 301-306.	3.1	18
60	Reactor-Scale Cultivation of the Hyperthermophilic Methanarchaeon <i>Methanococcus jannaschii</i> to High Cell Densities. <i>Applied and Environmental Microbiology</i> , 1999, 65, 5059-5065.	3.1	65
61	Purification, Regulation, and Molecular and Biochemical Characterization of Pyruvate Carboxylase from <i>Methanobacterium thermoautotrophicum</i> Strain $\hat{1}$ H. <i>Journal of Biological Chemistry</i> , 1998, 273, 5155-5166.	3.4	51
62	Cloning, Sequencing, and Transcriptional Analysis of the Coenzyme F420-dependent Methylene-5,6,7,8-tetrahydromethanopterin Dehydrogenase Gene from <i>Methanobacterium thermoautotrophicum</i> Strain Marburg and Functional Expression in <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 1995, 270, 2827-2832.	3.4	46
63	Characterization of F ₃₉₀ synthetase activity in cell extracts of <i>Methanobacterium thermoautotrophicum</i> Marburg. <i>Canadian Journal of Microbiology</i> , 1994, 40, 306-309.	1.7	0
64	Effect of methanogenic substrates on coenzyme F420-dependent N ₅ ,N ₁₀ -methylene-H ₄ MPT dehydrogenase, N ₅ ,N ₁₀ -methenyl-H ₄ MPT cyclohydrolase and F420-reducing hydrogenase activities in <i>Methanosarcina barkeri</i> . <i>Archives of Microbiology</i> , 1993, 159, 141-146.	2.2	13
65	Effect of temperature on the spectral properties of coenzyme F420 and related compounds. <i>Analytical Biochemistry</i> , 1992, 205, 342-350.	2.4	32
66	Characterization of a <i>Methanosarcina</i> strain isolated from goat feces, and that grows on H ₂ -CO ₂ only after adaptation. <i>Current Microbiology</i> , 1991, 23, 165-173.	2.2	19
67	Methanogenic bacteria in human vaginal samples. <i>Journal of Clinical Microbiology</i> , 1990, 28, 1666-1668.	3.9	105
68	Aerobic purification of <i>N</i> ⁵ , <i>N</i> ¹⁰ -methylene tetrahydromethanopterin dehydrogenase, separated from <i>N</i> ⁵ , <i>N</i> ¹⁰ -methenyl tetrahydromethanopterin cyclohydrolase, from <i>Methanobacterium thermoautotrophicum</i> strain Marburg. <i>Canadian Journal of Microbiology</i> , 1989, 35, 499-507.	1.7	49