Bjarne Hove-Jensen

List of Publications by Year
in descending order

37	1,347	257450 24	345221 36
papers	citations	h-index	g-index

38	38	38	1141
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Utilization of Glyphosate as Phosphate Source: Biochemistry and Genetics of Bacterial Carbon-Phosphorus Lyase. Microbiology and Molecular Biology Reviews, 2014, 78, 176-197.	6.6	158
2	Phosphoribosyl Diphosphate (PRPP): Biosynthesis, Enzymology, Utilization, and Metabolic Significance. Microbiology and Molecular Biology Reviews, 2017, 81, .	6.6	131
3	Purification and properties of phosphoribosyl-diphosphate synthetase from Bacillus subtilis. FEBS Journal, 1990, 192, 195-200.	0.2	69
4	Structural insights into the bacterial carbonâ€“phosphorus lyase machinery. Nature, 2015, 525, 68-72.	27.8	63
5	Five phosphonate operon gene products as components of a multi-subunit complex of the carbon-phosphorus lyase pathway. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11393-11398.	7.1	60
6	Organellar and Cytosolic Localization of Four Phosphoribosyl Diphosphate Synthase Isozymes in Spinach. Plant Physiology, 1999, 119, 497-506.	4.8	55
7	Escherichia coli phnN , Encoding Ribose 1,5-Bisphosphokinase Activity (Phosphoribosyl Diphosphate) Tj ETQq1 1 0.784314 rgBT /Ove Bacteriology, 2003, 185, 2793-2801.	2.2	54
8	Nucleotides, Nucleosides, and Nucleobases. EcoSal Plus, 2008, 3, .	5.4	49
9	Physiological Role ofphnP-specified Phosphoribosyl Cyclic Phosphodiesterase in Catabolism of Organophosphonic Acids by the Carbonâ€'Phosphorus Lyase Pathway. Journal of the American Chemical Society, 2011, 133, 3617-3624.	13.7	48
10	Primary structure of the tms and prs genes of Bacillus subtilis. Molecular Genetics and Genomics, 1989, 218, 565-571.	2.4	47
11	Phosphoribosylpyrophosphate Synthetase of Escherichia coli. FEBS Journal, 1982, 126, 327-332.	0.2	43
12	Steady State Kinetic Model for the Binding of Substrates and Allosteric Effectors to Escherichia coliPhosphoribosyl-diphosphate Synthase. Journal of Biological Chemistry, 2000, 275, 35408-35412.	3.4	42
13	Phosphoribosylpyrophosphate synthetase of Bacillus subtilis. Cloning, characterization and chromosomal mapping of the prs gene. Gene, 1987, 53, 247-255.	2.2	37
14	Novel Class III Phosphoribosyl Diphosphate Synthase: Structure and Properties of the Tetrameric, Phosphate-activated, Non-allosterically Inhibited Enzyme from Methanocaldococcus jannaschii. Journal of Molecular Biology, 2005, 354, 815-828.	4.2	36
15	Crystal Structure of PhnH: an Essential Component of Carbon-Phosphorus Lyase in Escherichia coli. Journal of Bacteriology, 2008, 190, 1072-1083.	2.2	34
16	Structure of PhnP, a Phosphodiesterase of the Carbon-Phosphorus Lyase Pathway for Phosphonate Degradation. Journal of Biological Chemistry, 2009, 284, 17216-17226.	3.4	34
17	Cloning and sequencing of cDNAs specifying a novel class of phosphoribosyl diphosphate synthase in Arabidopsis thaliana. BBA - Proteins and Proteomics, 1999, 1430, 403-408.	2.1	32
18	Catabolism and Detoxification of 1-Aminoalkylphosphonic Acids: N-Acetylation by the phnO Gene Product. PLoS ONE, 2012, 7, e46416.	2.5	32

#	Article	IF	Citations
19	Genetic Analysis and Enzyme Activity Suggest the Existence of More Than One Minimal Functional Unit Capable of Synthesizing Phosphoribosyl Pyrophosphate in Saccharomyces cerevisiae. Journal of Biological Chemistry, 1999, 274, 12480-12487.	3.4	30
20	Class II Recombinant Phosphoribosyl Diphosphate Synthase from Spinach. Journal of Biological Chemistry, 2001, 276, 17851-17856.	3.4	30
21	Accumulation of Intermediates of the Carbon-Phosphorus Lyase Pathway for Phosphonate Degradation in phn Mutants of Escherichia coli. Journal of Bacteriology, 2010, 192, 370-374.	2.2	29
22	The Abc of Phosphonate Breakdown: A Mechanism for Bacterial Survival. BioEssays, 2018, 40, e1800091.	2.5	28
23	Binding of Divalent Magnesium byEscherichia coliPhosphoribosyl Diphosphate Synthetase. Biochemistry, 1997, 36, 5078-5083.	2.5	26
24	Structure and Mechanism of PhnP, a Phosphodiesterase of the Carbon-Phosphorus Lyase Pathway. Biochemistry, 2011, 50, 8603-8615.	2.5	26
25	Implications of secondary structure prediction and amino acid sequence comparison of class I and class II phosphoribosyl diphosphate synthases on catalysis, regulation, and quaternary structure. Protein Science, 2008, 10, 2317-2324.	7.6	22
26	Inactivation of Escherichia coli Phosphoribosylpyrophosphate Synthetase by the 2â€²,3â€²-Dialdehyde Derivative of ATP. Journal of Biological Chemistry, 1995, 270, 20730-20736.	3.4	19
27	Effects of Mutagenesis of Aspartic Acid Residues in the Putative Phosphoribosyl Diphosphate Binding Site ofEscherichia coliPhosphoribosyl Diphosphate Synthetase on Metal Ion Specificity and Ribose 5-Phosphate Bindingâ€. Biochemistry, 1996, 35, 8181-8186.	2.5	18
28	Catalytic residues Lys197 and Arg199 of Bacillus subtilis phosphoribosyl diphosphate synthase. Alanine-scanning mutagenesis of the flexible catalytic loop. FEBS Journal, 2005, 272, 3631-3639.	4.7	17
29	The defective phosphoribosyl diphosphate synthase in a temperature-sensitive prs-2 mutant of Escherichia coli is compensated by increased enzyme synthesis. Microbiology (United Kingdom), 1996, 142, 359-365.	1.8	16
30	Heterooligomeric Phosphoribosyl Diphosphate Synthase of Saccharomyces cerevisiae. Journal of Biological Chemistry, 2004, 279, 40345-40350.	3.4	14
31	Methylphosphonic Acid Biosynthesis and Catabolism in Pelagic Archaea and Bacteria. Methods in Enzymology, 2018, 605, 351-426.	1.0	11
32	Surface exposed amino acid differences between mesophilic and thermophilic phosphoribosyl diphosphate synthase. FEBS Journal, 2004, 271, 4526-4533.	0.2	10
33	Expression, purification and preliminary diffraction studies of PhnP. Acta Crystallographica Section F: Structural Biology Communications, 2008, 64, 554-557.	0.7	10
34	Are all four yeast PRS genes essential?. Biochemical Society Transactions, 1995, 23, 621S-621S.	3.4	6
35	Two-step method for curing Escherichia coli of ColE1-derived plasmids. Journal of Microbiological Methods, 2008, 72, 208-213.	1.6	6
36	Structure of dimeric, recombinant Sulfolobus solfataricus phosphoribosyl diphosphate synthase: a bent dimer defining the adenine specificity of the substrate ATP. Extremophiles, 2015, 19, 407-415.	2.3	3

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37	The Prodigal Compound: Return of Ribosyl 1,5-Bisphosphate as an Important Player in Metabolism. Microbiology and Molecular Biology Reviews, 2019, 83, .	6.6	2