

Agnieszka Bzowska

List of Publications by Year in descending order

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86
papers

1,887
citations

361296

20
h-index

360920

35
g-index

89
all docs

89
docs citations

89
times ranked

1437
citing authors

#	ARTICLE	IF	CITATIONS
1	Interactions of 2,6-substituted purines with purine nucleoside phosphorylase from <i>Helicobacter pylori</i> in solution and in the crystal, and the effects of these compounds on cell cultures of this bacterium. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2022, 37, 1083-1097.	2.5	2
2	Hierarchical approach for the rational construction of helix-containing nanofibrils using β , β -peptides. <i>Nanoscale</i> , 2021, 13, 4000-4015.	2.8	8
3	Molecular Mechanism of Thymidylate Synthase Inhibition by N4-Hydroxy-dCMP in View of Spectrophotometric and Crystallographic Studies. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4758.	1.8	0
4	Single tryptophan Y160W mutant of homooligomeric E. coli purine nucleoside phosphorylase implies that dimers forming the hexamer are functionally not equivalent. <i>Scientific Reports</i> , 2021, 11, 11144.	1.6	3
5	Chromophore of an Enhanced Green Fluorescent Protein Can Play a Photoprotective Role Due to Photobleaching. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8565.	1.8	4
6	A comprehensive method for determining cellular uptake of purine nucleoside phosphorylase and adenylosuccinate synthetase inhibitors by H. pylori. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 7949-7967.	1.7	2
7	Tricyclic Nucleobase Analogs and Their Ribosides as Substrates and Inhibitors of Purine-Nucleoside Phosphorylases III. Aminopurine Derivatives. <i>Molecules</i> , 2020, 25, 681.	1.7	3
8	Heterodimerizing helices as tools for nanoscale control of the organization of protein-protein and protein-quantum dots. <i>Biochimie</i> , 2019, 167, 93-105.	1.3	4
9	Tri-Cyclic Nucleobase Analogs and their Ribosides as Substrates of Purine-Nucleoside Phosphorylases. II Guanine and Isoguanine Derivatives. <i>Molecules</i> , 2019, 24, 1493.	1.7	7
10	Properties of the HtrA Protease From Bacterium <i>Helicobacter pylori</i> Whose Activity Is Indispensable for Growth Under Stress Conditions. <i>Frontiers in Microbiology</i> , 2019, 10, 961.	1.5	36
11	Non-fluorescent mutant of green fluorescent protein sheds light on the mechanism of chromophore formation. <i>FEBS Letters</i> , 2018, 592, 1516-1523.	1.3	8
12	Part-of-the-sites binding and reactivity in the homooligomeric enzymes – facts and artifacts. <i>Archives of Biochemistry and Biophysics</i> , 2018, 642, 31-45.	1.4	14
13	<i>Helicobacter pylori</i> purine nucleoside phosphorylase shows new distribution patterns of open and closed active site conformations and unusual biochemical features. <i>FEBS Journal</i> , 2018, 285, 1305-1325.	2.2	11
14	Tricyclic nitrogen base 1,N ⁶ -ethenoadenine and its ribosides as substrates for purine-nucleoside phosphorylases: Spectroscopic and kinetic studies. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2018, 37, 89-101.	0.4	8
15	Biochemical properties of the HtrA homolog from bacterium <i>Stenotrophomonas maltophilia</i> . <i>International Journal of Biological Macromolecules</i> , 2018, 109, 992-1005.	3.6	12
16	β -Type Amyloidlike Fibrils of Poly-L-glutamic Acid Convert into Long, Highly Ordered Helices upon Dissolution in Dimethyl Sulfoxide. <i>Journal of Physical Chemistry B</i> , 2018, 122, 11895-11905.	1.2	7
17	Crystallographic snapshots of ligand binding to hexameric purine nucleoside phosphorylase and kinetic studies give insight into the mechanism of catalysis. <i>Scientific Reports</i> , 2018, 8, 15427.	1.6	9
18	In the quest for new targets for pathogen eradication: the adenylosuccinate synthetase from the bacterium <i>Helicobacter pylori</i> . <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018, 33, 1405-1414.	2.5	8

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19	1,N6-ethenoadenine and other Fluorescent Nucleobase Analogs as Substrates for Purine-Nucleoside Phosphorylases: Spectroscopic and Kinetic Studies. <i>Current Pharmaceutical Design</i> , 2018, 23, 6948-6966.	0.9	6
20	Structural characterization of purine nucleoside phosphorylase from human pathogen <i>Helicobacter pylori</i> . <i>International Journal of Biological Macromolecules</i> , 2017, 101, 518-526.	3.6	11
21	Characterization of the molecular chaperone ClpB from the pathogenic spirochaete <i>Leptospira interrogans</i> . <i>PLoS ONE</i> , 2017, 12, e0181118.	1.1	22
22	Site-Selective Ribosylation of Fluorescent Nucleobase Analogs Using Purine-Nucleoside Phosphorylase as a Catalyst: Effects of Point Mutations. <i>Molecules</i> , 2016, 21, 44.	1.7	7
23	How can macromolecular crowding inhibit biological reactions? The enhanced formation of DNA nanoparticles. <i>Scientific Reports</i> , 2016, 6, 22033.	1.6	19
24	New Insights into Active Site Conformation Dynamics of <i>E. coli</i> PNP Revealed by Combined H/D Exchange Approach and Molecular Dynamics Simulations. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 73-82.	1.2	7
25	A Multilaboratory Comparison of Calibration Accuracy and the Performance of External References in Analytical Ultracentrifugation. <i>PLoS ONE</i> , 2015, 10, e0126420.	1.1	71
26	Spectroscopic properties of two single-cysteine mutants of EGFP: C48S-EGFP and C70S-EGFP. <i>Biomedical Spectroscopy and Imaging</i> , 2014, 3, 231-236.	1.2	0
27	Homooligomerization is needed for stability: a molecular modelling and solution study of <i>Escherichia coli</i> purine nucleoside phosphorylase. <i>FEBS Journal</i> , 2014, 281, 1860-1871.	2.2	14
28	Purine nucleoside phosphorylase activity decline is linked to the decay of the trimeric form of the enzyme. <i>Archives of Biochemistry and Biophysics</i> , 2014, 549, 40-48.	1.4	7
29	Still a Long Way to Fully Understanding the Molecular Mechanism of <i>Escherichia coli</i> Purine Nucleoside Phosphorylase. <i>Croatica Chemica Acta</i> , 2013, 86, 117-127.	0.1	7
30	Trimeric purine nucleoside phosphorylase: Exploring postulated one-third-of-the-sites binding in the transition state. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 6758-6769.	1.4	12
31	New phosphate binding sites in the crystal structure of <i>Escherichia coli</i> purine nucleoside phosphorylase complexed with phosphate and formycin A. <i>FEBS Letters</i> , 2012, 586, 967-971.	1.3	7
32	Validation of the catalytic mechanism of <i>Escherichia coli</i> purine nucleoside phosphorylase by structural and kinetic studies. <i>Biochimie</i> , 2011, 93, 1610-1622.	1.3	33
33	Structural-based design and synthesis of novel 9-deazaguanine derivatives having a phosphate mimic as multi-substrate analogue inhibitors for mammalian PNPs. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 2275-2284.	1.4	33
34	Antiproliferative Activity of Purine Nucleoside Phosphorylase Multisubstrate Analogue Inhibitors Containing Difluoromethylene Phosphonic Acid against Leukaemia and Lymphoma Cells. <i>Chemical Biology and Drug Design</i> , 2010, 75, 392-399.	1.5	8
35	9-Deazaguanine derivatives connected by a linker to difluoromethylene phosphonic acid are slow-binding picomolar inhibitors of trimeric purine nucleoside phosphorylase. <i>FEBS Journal</i> , 2010, 277, 1747-1760.	2.2	10
36	1.45 Å resolution crystal structure of recombinant PNP in complex with a pM multisubstrate analogue inhibitor bearing one feature of the postulated transition state. <i>Biochemical and Biophysical Research Communications</i> , 2010, 391, 703-708.	1.0	8

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37	Overexpressed proteins may act as mops removing their ligands from the host cells: A case study of calf PNP. <i>Biochemical and Biophysical Research Communications</i> , 2010, 391, 1203-1209.	1.0	8
38	The comparison of aggregation and folding of enhanced green fluorescent protein (EGFP) by spectroscopic studies. <i>Spectroscopy</i> , 2010, 24, 343-348.	0.8	18
39	Overexpression, purification and characterization of functional calf purine nucleoside phosphorylase (PNP). <i>Protein Expression and Purification</i> , 2008, 61, 122-130.	0.6	12
40	Simple and universal method to determine dissociation constants for enzyme/ligand complexes. <i>Nucleic Acids Symposium Series</i> , 2008, 52, 669-670.	0.3	1
41	Thermodynamic studies of interactions of calf spleen PNP with acyclic phosphonate inhibitors. <i>Nucleic Acids Symposium Series</i> , 2008, 52, 663-664.	0.3	5
42	9-Deazaguanine derivatives: synthesis and inhibitory properties as multi-substrate analogue inhibitors of mammalian PNPs. <i>Nucleic Acids Symposium Series</i> , 2008, 52, 661-662.	0.3	5
43	Fluorescence studies of calf spleen purine nucleoside phosphorylase (PNP) complexes with guanine and 9-deazaguanine. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2007, 26, 841-847.	0.4	5
44	Cloning, Expression, Purification, and Some Properties of Calf Purine Nucleoside Phosphorylase. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2007, 26, 855-859.	0.4	3
45	Interactions of Calf Spleen Purine Nucleoside Phosphorylase with Formycin B and its Aglycone—Spectroscopic and Kinetic Studies. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2007, 26, 849-854.	0.4	1
46	Folding and unfolding of a non-fluorescent mutant of green fluorescent protein. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 285223.	0.7	20
47	Is purine nucleoside phosphorylase an example of a morpheein?. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 285219.	0.7	2
48	Inhibitory Properties of Nucleotides with Difluoromethylenephosphonic Acid as a Phosphate Mimic versus Calf Spleen Purine Nucleoside Phosphorylase and Effect of These Analogues on the Viability of Human Blood Lymphocytes. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2007, 26, 989-993.	0.4	3
49	Kinetics of Binding of Multisubstrate Analogue Inhibitor (2-Amino-9-[2-(Phosphonomethoxy)Ethyl]-6-Sulfanylpurine) with Trimeric Purine Nucleoside Phosphorylase. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2007, 26, 969-974.	0.4	0
50	Synthesis and biological evaluation of 9-deazaguanine derivatives connected by a linker to difluoromethylene phosphonic acid as multi-substrate analogue inhibitors of PNP. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007, 17, 4173-4177.	1.0	23
51	Probing the mechanism of purine nucleoside phosphorylase by steady-state kinetic studies and ligand binding characterization determined by fluorimetric titrations. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006, 1764, 887-902.	1.1	25
52	Molecular architecture of E. coli purine nucleoside phosphorylase studied by analytical ultracentrifugation and CD spectroscopy. <i>Protein Science</i> , 2006, 15, 1794-1800.	3.1	11
53	Oligomeric Structure of Mammalian Purine Nucleoside Phosphorylase in Solution Determined by Analytical Ultracentrifugation. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2005, 60, 927-931.	0.6	6
54	SPECTROSCOPIC AND KINETIC STUDIES OF INTERACTIONS OF CALF SPLEEN PURINE NUCLEOSIDE PHOSPHORYLASE WITH 8-AZAGUANINE, AND ITS 9-(2-PHOSPHONYLMETHOXYETHYL) DERIVATIVE. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2005, 24, 459-464.	0.4	15

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55	KINETIC MODEL OF OXIDATION CATALYZED BY XANTHINE OXIDASE – THE FINAL ENZYME IN DEGRADATION OF PURINE NUCLEOSIDES AND NUCLEOTIDES. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2005, 24, 465-469.	0.4	6
56	KINETIC PROPERTIES OF CELLULOMONAS SP. PURINE NUCLEOSIDE PHOSPHORYLASE WITH TYPICAL AND NON-TYPICAL SUBSTRATES: IMPLICATIONS FOR THE REACTION MECHANISM. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2005, 24, 471-476.	0.4	0
57	Interactions of Calf Spleen Purine Nucleoside Phosphorylase with 8-Azaguanine, and a Bisubstrate Analogue Inhibitor: Implications for the Reaction Mechanism. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2004, 59, 713-725.	0.6	23
58	Calf spleen purine-nucleoside phosphorylase: crystal structure of the binary complex with a potent multisubstrate analogue inhibitor. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 1417-1424.	2.5	19
59	Crystal Structure of Calf Spleen Purine Nucleoside Phosphorylase with Two Full Trimers in the Asymmetric Unit: Important Implications for the Mechanism of Catalysis. <i>Journal of Molecular Biology</i> , 2004, 342, 1015-1032.	2.0	25
60	Crystal Structure of Calf Spleen Purine Nucleoside Phosphorylase in a Complex with Multisubstrate Analogue Inhibitor with 2,6-Diaminopurine Aglycone. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2003, 22, 1699-1702.	0.4	2
61	Interactions of Potent Multisubstrate Analogue Inhibitors with Purine Nucleoside Phosphorylase from Calf Spleen – Kinetic and Spectrofluorimetric Studies. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2003, 22, 1567-1570.	0.4	14
62	Interactions of Trimeric Purine Nucleoside Phosphorylases with Ground State Analogues – Calorimetric and Fluorimetric Studies. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2003, 22, 1695-1698.	0.4	9
63	Open and closed conformation of the E. coli purine nucleoside phosphorylase active center and implications for the catalytic mechanism. <i>Journal of Molecular Biology</i> , 2002, 315, 351-371.	2.0	70
64	Calf spleen purine nucleoside phosphorylase: complex kinetic mechanism, hydrolysis of 7-methylguanosine, and oligomeric state in solution. <i>BBA - Proteins and Proteomics</i> , 2002, 1596, 293-317.	2.1	45
65	Purine nucleoside phosphorylase from <i>Cellulomonas</i> sp.: physicochemical properties and binding of substrates determined by ligand-dependent enhancement of enzyme intrinsic fluorescence, and by protective effects of ligands on thermal inactivation of the enzyme. <i>BBA - Proteins and Proteomics</i> , 2002, 1597, 320-334.	2.1	20
66	Calf spleen purine nucleoside phosphorylase: structure of its ternary complex with an N(7)-acycloguanosine inhibitor and a phosphate anion. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2001, 57, 30-36.	2.5	11
67	Purine nucleoside phosphorylases: properties, functions, and clinical aspects. , 2000, 88, 349-425.		400
68	Crystal structure of the purine nucleoside phosphorylase (PNP) from <i>Cellulomonas</i> sp. and its implication for the mechanism of trimeric PNPs. <i>Journal of Molecular Biology</i> , 1999, 294, 1239-1255.	2.0	63
69	Synthesis of 6-Aryloxy- and 6-Arylalkoxy-2-chloropurines and Their Interactions with Purine Nucleoside Phosphorylase from <i>Escherichia coli</i> . <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 1999, 54, 1055-1067.	0.6	5
70	Crystal structure of the ternary complex of E. coli purine nucleoside phosphorylase with formycin B, a structural analogue of the substrate inosine, and phosphate (sulphate) at 2.1 Å... resolution. <i>Journal of Molecular Biology</i> , 1998, 280, 153-166.	2.0	81
71	<i>Cellulomonas</i> sp. Purine Nucleoside Phosphorylase (PNP). <i>Advances in Experimental Medicine and Biology</i> , 1998, , 259-264.	0.8	9
72	Crystal structure of calf spleen purine nucleoside phosphorylase in a complex with hypoxanthine at 2.15 Å... resolution. <i>Journal of Molecular Biology</i> , 1997, 265, 202-216.	2.0	82

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73	Nicotinamide Riboside, an Unusual, Non-Typical, Substrate of Purified Purine-Nucleoside Phosphorylases. FEBS Journal, 1997, 243, 408-414.	0.2	32
74	Kinetics of Phosphorolysis of 3-(beta-d-Ribofuranosyl)Adenine and 3-(beta-d-Ribofuranosyl)Hypoxanthine, Non-Conventional Substrates of Purine-Nucleoside Phosphorylase. FEBS Journal, 1996, 239, 229-234.	0.2	13
75	Electrochemical and enzymatic study of 2-chloro-2'-deoxyadenosine (antileukemic agent) and related compounds. Bioelectrochemistry, 1996, 39, 241-247.	1.0	4
76	FLUORESCENCE OF TYROSINE AND TRYPTOPHAN IN PROTEINS USING ONE- AND TWO-PHOTON EXCITATION. Photochemistry and Photobiology, 1995, 61, 319-324.	1.3	60
77	2-Chloro-2'-deoxyadenosine (Cladribine) and its Analogues are Good Substrates and Potent Selective Inhibitors of Escherichia coli Purine-Nucleoside Phosphorylase. FEBS Journal, 1995, 233, 886-890.	0.2	12
78	Calf spleen purine nucleoside phosphorylase: purification, sequence and crystal structure of its complex with an N(7)-acycloguanosine inhibitor. FEBS Letters, 1995, 367, 214-218.	1.3	49
79	Linear Free Energy Relationships for N(7)-Substituted Guanosines as Substrates of Calf Spleen Purine Nucleoside Phosphorylase. Possible Role of N(7)-Protonation as an Intermediary in Phosphorolysis. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1993, 48, 803-811.	0.6	16
80	Formycins A and B and some analogues: selective inhibitors of bacterial (Escherichia coli) purine nucleoside phosphorylase. BBA - Proteins and Proteomics, 1992, 1120, 239-247.	2.1	49
81	Comparison of Acid- and Enzyme-Catalyzed Cleavage of the Glycosidic Bond of N(7)-Substituted Guanosines. Nucleosides & Nucleotides, 1990, 9, 439-440.	0.5	4
82	Properties of Purine Nucleoside Phosphorylase (PNP) of Mammalian and Bacterial Origin. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1990, 45, 59-70.	0.6	73
83	Properties of 5'-AMP Deaminase and its Inhibitors with the Aid of a Continuous Fluorimetric Assay with Formycin-5'-phosphate as Substrate. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1989, 44, 581-589.	0.6	5
84	Properties of two unusual, and fluorescent, substrates of purine-nucleoside phosphorylase: 7-methylguanosine and 7-methylinosine. BBA - Proteins and Proteomics, 1986, 874, 355-363.	2.1	85
85	Phosphorylation of Coformycin and 2'-Deoxycoformycin, and Substrate and Inhibitor Properties of the Nucleosides and Nucleotides in Several Enzyme Systems. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1985, 40, 710-714.	0.6	7
86	Formycins and their Analogues: Purine Nucleoside Phosphorylase Inhibitors and their Potential Application in Immunosuppression and Cancer. , 0, , 473-510.		3