

Vladimir I Polshakov

List of Publications by Year in descending order

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95
papers

1,209
citations

361413

20
h-index

454955

30
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112
all docs

112
docs citations

112
times ranked

1194
citing authors

#	ARTICLE	IF	CITATIONS
1	Interplay of histidine residues of the Alzheimer's disease A β peptide governs its Zn-induced oligomerization. <i>Scientific Reports</i> , 2016, 6, 21734.	3.3	81
2	High-resolution solution structure of human pNR-2/ps2: A single trefoil motif protein. <i>Journal of Molecular Biology</i> , 1997, 267, 418-432.	4.2	60
3	NMR Solution Structure of Rat A β (1-16): Toward Understanding the Mechanism of Rats' Resistance to Alzheimer's Disease. <i>Biophysical Journal</i> , 2012, 102, 136-143.	0.5	56
4	Phosphorylation of Ser8 promotes zinc-induced dimerization of the amyloid- β metal-binding domain. <i>Molecular BioSystems</i> , 2014, 10, 2590-2596.	2.9	49
5	Versatility of the green microalga cell vacuole function as revealed by analytical transmission electron microscopy. <i>Protoplasma</i> , 2017, 254, 1323-1340.	2.1	49
6	Tetracenomycin X inhibits translation by binding within the ribosomal exit tunnel. <i>Nature Chemical Biology</i> , 2020, 16, 1071-1077.	8.0	43
7	Solution Structure of Bound Trimethoprim in Its Complex with <i>Lactobacillus casei</i> Dihydrofolate Reductase. <i>Biochemistry</i> , 1994, 33, 12416-12426.	2.5	38
8	The solution structure of the complex of <i>Lactobacillus casei</i> dihydrofolate reductase with methotrexate. <i>Journal of Molecular Biology</i> , 1998, 277, 119-134.	4.2	38
9	The English (H6R) familial Alzheimer's disease mutation facilitates zinc-induced dimerization of the amyloid- β metal-binding domain. <i>Metallomics</i> , 2015, 7, 422-425.	2.4	38
10	Structure and dynamics in solution of the complex of <i>Lactobacillus casei</i> dihydrofolate reductase with the new lipophilic antifolate drug trimetrexate. <i>Protein Science</i> , 1999, 8, 467-481.	7.6	29
11	Solution Structure of Human Dihydrofolate Reductase in its Complex with Trimethoprim and NADPH. <i>Journal of Biomolecular NMR</i> , 2005, 33, 69-72.	2.8	28
12	Determination of Stereospecific Assignments, Torsion-Angle Constraints, and Rotamer Populations in Proteins Using the Program Anglesearch. <i>Journal of Magnetic Resonance Series B</i> , 1995, 108, 31-43.	1.6	27
13	Effects of Co-operative Ligand Binding on Protein Amide NH Hydrogen Exchange. <i>Journal of Molecular Biology</i> , 2006, 356, 886-903.	4.2	25
14	A Binuclear Zinc Interaction Fold Discovered in the Homodimer of Alzheimer's Amyloid- β Fragment with Taiwanese Mutation D7H. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11734-11739.	13.8	25
15	Nybomycin-producing <i>Streptomyces</i> isolated from carpenter ant <i>Camponotus vagus</i> . <i>Biochimie</i> , 2019, 160, 93-99.	2.6	25
16	NMR Structures of Apo- <i>L. casei</i> Dihydrofolate Reductase and Its Complexes with Trimethoprim and NADPH: Contributions to Positive Cooperative Binding from Ligand-Induced Refolding, Conformational Changes, and Interligand Hydrophobic Interactions. <i>Biochemistry</i> , 2011, 50, 3609-3620.	2.5	24
17	The QTL within the H2 Complex Involved in the Control of Tuberculosis Infection in Mice Is the Classical Class II H2-Ab1 Gene. <i>PLoS Genetics</i> , 2015, 11, e1005672.	3.5	24
18	New conjugates of polyene macrolide amphotericin B with benzoxaboroles: synthesis and properties. <i>Journal of Antibiotics</i> , 2016, 69, 549-560.	2.0	24

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19	Solution Structure of a Brodimoprim Analog in Its Complex with Lactobacillus casei Dihydrofolate Reductase. <i>Biochemistry</i> , 1995, 34, 11690-11702.	2.5	23
20	NMR Detection of Arginine-Ligand Interactions in Complexes of Lactobacillus casei Dihydrofolate Reductase. <i>FEBS Journal</i> , 1996, 238, 435-439.	0.2	21
21	Characterization of Rates of Ring-Flipping in Trimethoprim in Its Ternary Complexes with Lactobacillus casei Dihydrofolate Reductase and Coenzyme Analogues. <i>Biochemistry</i> , 1999, 38, 15962-15969.	2.5	21
22	Eukaryotic class 1 translation termination factor eRF1: the NMR structure and dynamics of the middle domain involved in triggering ribosome-dependent peptidyl transferase hydrolysis. <i>FEBS Journal</i> , 2007, 274, 4223-4237.	4.7	21
23	Z/E(C=C)-isomerization of coumarin enamines induced by organic solvents. <i>Mendeleev Communications</i> , 2009, 19, 214-216.	1.6	20
24	Structure and function of the N-terminal domain of the yeast telomerase reverse transcriptase. <i>Nucleic Acids Research</i> , 2018, 46, 1525-1540.	14.5	19
25	Synthesis and Biological Evaluation of PSMA Ligands with Aromatic Residues and Fluorescent Conjugates Based on Them. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 4532-4552.	6.4	19
26	NMR-Based Structural Studies of the pNR-2/ps2 Single Domain Trefoil Peptide. Similarities to Porcine Spasmolytic Peptide and Evidence for a Monomeric Structure. <i>FEBS Journal</i> , 1995, 233, 847-855.	0.2	18
27	Dihydrofolate reductase: structural aspects of mechanisms of enzyme catalysis and inhibition. <i>Russian Chemical Bulletin</i> , 2001, 50, 1733-1751.	1.5	18
28	NMR-based solution structure of the complex of Lactobacillus casei dihydrofolate reductase with trimethoprim and NADPH. <i>Journal of Biomolecular NMR</i> , 2002, 24, 67-70.	2.8	18
29	NMR solution structure and function of the C-terminal domain of eukaryotic class 1 polypeptide chain release factor. <i>FEBS Journal</i> , 2010, 277, 2611-2627.	4.7	18
30	pH-responsive modulation of insulin aggregation and structural transformation of the aggregates. <i>Biochimie</i> , 2015, 109, 49-59.	2.6	18
31	Structural Studies and Anticancer Activity of a Novel Class of β -Peptides. <i>Chemistry - an Asian Journal</i> , 2015, 10, 383-389.	3.3	17
32	Distribution coefficient of rifabutin in liposome/water system as measured by different methods. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008, 68, 400-405.	4.3	16
33	Analogues of S-Adenosyl-L-Methionine in Studies of Methyltransferases. <i>Molecular Biology</i> , 2022, 56, 229-250.	1.3	15
34	NMR Studies of Ligand Carboxylate Group Interactions with Arginine Residues in Complexes of Lactobacillus casei Dihydrofolate Reductase with Substrates and Substrate Analogues. <i>Biochemistry</i> , 2000, 39, 9819-9825.	2.5	14
35	Polypeptide-Based Molecular Platform and Its Docetaxel/Sulfo-Cy5-Containing Conjugate for Targeted Delivery to Prostate Specific Membrane Antigen. <i>Molecules</i> , 2020, 25, 5784.	3.8	13
36	Responses of DNA Mismatch Repair Proteins to a Stable G-Quadruplex Embedded into a DNA Duplex Structure. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8773.	4.1	12

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37	NMR solution structure and function of the C-terminal domain of eukaryotic class I polypeptide chain release factor. <i>FEBS Journal</i> , 2010, 277, 2611-2627.	4.7	12
38	Synthesis, Characterization, and Preclinical Evaluation of a Small-Molecule Prostate-Specific Membrane Antigen-Targeted Monomethyl Auristatin E Conjugate. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 17123-17145.	6.4	12
39	E/Z(C=C)-Isomerization of enamines of 3-formyl-4-hydroxycoumarin induced by organic solvents. <i>Russian Chemical Bulletin</i> , 2010, 59, 1605-1611.	1.5	11
40	Validation of a new restraint docking method for solution structure determinations of protein-ligand complexes. <i>Journal of Biomolecular NMR</i> , 1999, 14, 115-122.	2.8	10
41	Antifungal Thiazolidines: Synthesis and Biological Evaluation of Mycosidine Congeners. <i>Pharmaceuticals</i> , 2022, 15, 563.	3.8	10
42	The use of PM3 SCF MO quantum mechanical calculations to refine NMR-determined structures of complexes of antifolate drugs with dihydrofolate reductase in solution. <i>Computational and Theoretical Chemistry</i> , 1995, 357, 207-216.	1.5	9
43	Towards understanding the origins of the different specificities of binding the reduced (NADPH) and oxidised (NADP+) forms of nicotinamide adenine dinucleotide phosphate coenzyme to dihydrofolate reductase. <i>Journal of Molecular Structure</i> , 2002, 602-603, 257-267.	3.6	9
44	Enalaprilat Inhibits Zinc-Dependent Oligomerization of Metal-Binding Domain of Amyloid-beta Isoforms and Protects Human Neuroblastoma Cells from Toxic Action of these Isoforms. <i>Molecular Biology</i> , 2018, 52, 590-597.	1.3	9
45	Control of Azomethine Cycloaddition Stereochemistry by CF ₃ Group: Structural Diversity of Fluorinated β^2 -Proline Dimers. <i>Organic Letters</i> , 2016, 18, 4698-4701.	4.6	8
46	Theoretical and NMR Conformational Studies of β^2 -Proline Oligopeptides With Alternating Chirality of Pyrrolidine Units. <i>Frontiers in Chemistry</i> , 2018, 6, 91.	3.6	8
47	Structural factors determining the binding selectivity of the antibacterial drug trimethoprim to dihydrofolate reductase. <i>Pharmaceutical Chemistry Journal</i> , 2007, 41, 350-353.	0.8	7
48	NMR screening and studies of target-ligand interactions. <i>Russian Chemical Reviews</i> , 2019, 88, 59-98.	6.5	7
49	NMR assignments of the C-terminal domain of human polypeptide release factor eRF1. <i>Biomolecular NMR Assignments</i> , 2007, 1, 183-185.	0.8	6
50	Williams-Beuren syndrome-related methyltransferase WBSCR27: cofactor binding and cleavage. <i>FEBS Journal</i> , 2020, 287, 5375-5393.	4.7	6
51	NMR assignments of the N-terminal domain of <i>Ogataea polymorpha</i> telomerase reverse transcriptase. <i>Biomolecular NMR Assignments</i> , 2016, 10, 183-187.	0.8	5
52	A Binuclear Zinc Interaction Fold Discovered in the Homodimer of Alzheimer's Amyloid β^2 Fragment with Taiwanese Mutation D7H. <i>Angewandte Chemie</i> , 2017, 129, 11896-11901.	2.0	5
53	Biological evaluation and spectral characterization of a novel tetracenomycin X congener. <i>Biochimie</i> , 2022, 192, 63-71.	2.6	5
54	³¹ P and ¹ H NMR study of reaction between hydride complexes of platinum and divalent tin halides. <i>Bulletin of the Academy of Sciences of the USSR Division of Chemical Science</i> , 1982, 31, 917-921.	0.0	4

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55	Optimization of the methods for small peptide solution structure determination by NMR spectroscopy. <i>Molecular Biology</i> , 2010, 44, 958-967.	1.3	4
56	NMR screening of potential inhibitors of methionine β -lyase from <i>Citrobacter freundii</i> . <i>Molecular Biology</i> , 2014, 48, 896-905.	1.3	4
57	Intermolecular interactions in rifabutin β -2-hydroxypropyl- β -cyclodextrin β water solutions. <i>Russian Journal of Physical Chemistry A</i> , 2015, 89, 797-801.	0.6	4
58	Insights into the structure and function of Est3 from the <i>Hansenula polymorpha</i> telomerase. <i>Scientific Reports</i> , 2020, 10, 11109.	3.3	4
59	NMR resonance assignment and backbone dynamics of a C-terminal domain homolog of orange carotenoid protein. <i>Biomolecular NMR Assignments</i> , 2021, 15, 17-23.	0.8	4
60	Structural basis for interaction between CLAMP and MSL2 proteins involved in the specific recruitment of the dosage compensation complex in <i>Drosophila</i> . <i>Nucleic Acids Research</i> , 2022, 50, 6521-6531.	14.5	4
61	Synthesis of 4-nitro-1,5-diarylpyrazoles based upon 2-nitroacetophenones. <i>Pharmaceutical Chemistry Journal</i> , 1993, 26, 889-893.	0.8	3
62	NMR Assignments of the Middle Domain of Human Polypeptide Release Factor eRF1. <i>Journal of Biomolecular NMR</i> , 2006, 36, 8-8.	2.8	3
63	Interface of the interaction of the middle domain of human translation termination factor eRF1 with eukaryotic ribosomes. <i>Molecular Biology</i> , 2008, 42, 939-948.	1.3	3
64	Structure and dynamics in solution of the stop codon decoding N-terminal domain of the human polypeptide chain release factor eRF1. <i>Protein Science</i> , 2012, 21, 896-903.	7.6	3
65	Chemical shift assignments and the secondary structure of the Est3 telomerase subunit in the yeast <i>Hansenula polymorpha</i> . <i>Biomolecular NMR Assignments</i> , 2018, 12, 57-62.	0.8	3
66	NMR assignments of the WBSCR27 protein related to Williams-Beuren syndrome. <i>Biomolecular NMR Assignments</i> , 2018, 12, 303-308.	0.8	3
67	Thiazolidine-2,4-dione in benzoylation reaction. <i>Chemistry of Heterocyclic Compounds</i> , 2019, 55, 178-183.	1.2	3
68	1-Acetyl-2-bromo-3-indolinone in nucleophilic substitution reactions and the synthesis of pyrrolo[3,2-b]indoles. <i>Pharmaceutical Chemistry Journal</i> , 1990, 24, 917-923.	0.8	2
69	Z/E (C=C)-isomerization and fluorescence modulation of imines of 7-N,N-dialkylamino-4-hydroxy-3-formylcoumarins in organic solvents. <i>Heterocyclic Communications</i> , 2010, 16, .	1.2	2
70	Reinvestigation of dimerization of Z-N-alkylarylmethylideneindoxyls upon exposure to UV-vis radiation. <i>Russian Chemical Bulletin</i> , 2017, 66, 350-354.	1.5	2
71	2-Allylaminothiazolin-4-one in acylation reactions. <i>Chemistry of Heterocyclic Compounds</i> , 1987, 23, 910-914.	1.2	1
72	Interaction of the antitumor drugs phosphidine and spirobromine with nucleotides. <i>Pharmaceutical Chemistry Journal</i> , 1987, 21, 301-308.	0.8	1

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73	New synthesis of 2-aryl-3-hydroxy(alkoxy)-4-quinolones by ring expansion of 1-acetyl-2-arylmethylene-3-indolinones. <i>Chemistry of Heterocyclic Compounds</i> , 1992, 28, 234-235.	1.2	1
74	Laser control of the structure of a photosensitive substrate for enzymatic reaction. <i>Laser Physics</i> , 2007, 17, 1262-1265.	1.2	1
75	P4-028: ZINC-INDUCED DIMERS OF CHEMICALLY MODIFIED A β - ARE POSSIBLE AGGREGATION SEEDS. , 2014, 10, P793-P793.		1
76	Intermolecular interactions in rifabutinâ€“2-hydroxypropyl- β -cyclodextrinâ€“water solutions, according to solubility data. <i>Russian Journal of Physical Chemistry A</i> , 2016, 90, 983-989.	0.6	1
77	Backbone resonance assignment and dynamics of 110 kDa hexameric inorganic pyrophosphatase from <i>Mycobacterium tuberculosis</i> . <i>Biomolecular NMR Assignments</i> , 2020, 14, 281-287.	0.8	1
78	Interplay of Pyrrolidine Units with Homo/Hetero Chirality and CF ₃ â€“Aryl Substituents on Secondary Structures of β -Proline Tripeptides in Solution. <i>Journal of Organic Chemistry</i> , 2020, 85, 8865-8871.	3.2	1
79	Telomere length regulation by Rif1 protein from <i>Hansenula polymorpha</i> . <i>ELife</i> , 2022, 11, .	6.0	1
80	Williams-Beuren Syndrome Related Methyltransferase WBSCR27: From Structure to Possible Function. <i>Frontiers in Molecular Biosciences</i> , 0, 9, .	3.5	1
81	Conversions of the antineoplastic preparation prospidin in aqueous media. <i>Pharmaceutical Chemistry Journal</i> , 1984, 18, 521-527.	0.8	0
82	Study of the alkylating capacity of prospidin in model reactions with organic phosphates. <i>Pharmaceutical Chemistry Journal</i> , 1985, 19, 376-381.	0.8	0
83	Investigation of the pathways of biotransformation of spirobromine. <i>Pharmaceutical Chemistry Journal</i> , 1986, 20, 519-525.	0.8	0
84	Photochemical reactions of biologically important quinoxaline N-oxides. <i>Pharmaceutical Chemistry Journal</i> , 1986, 20, 227-235.	0.8	0
85	Synthesis and properties of 4-OxO-3,4-dihydrobenzo[g]pteridine-2-carboxylic acid and its derivatives. <i>Pharmaceutical Chemistry Journal</i> , 1986, 20, 117-122.	0.8	0
86	Pharmacokinetics and metabolism of spirobromine in oral administration. <i>Pharmaceutical Chemistry Journal</i> , 1988, 22, 582-584.	0.8	0
87	Reactions of spirazidine in aqueous media. <i>Pharmaceutical Chemistry Journal</i> , 1988, 22, 871-874.	0.8	0
88	Interaction of spirazidine, prospidine, and spirobromine with components of nucleic acids. <i>Pharmaceutical Chemistry Journal</i> , 1989, 23, 1-8.	0.8	0
89	Pyrido[2,3-d]pyrimidines 4. Synthesis and some transformations of oxo(hydroxy)pyrido[2,3-d]pyrimidines. <i>Chemistry of Heterocyclic Compounds</i> , 1991, 27, 538-544.	1.2	0
90	1-Acetyl-2-chloro-3-iminoindoline hydrochloride and its N-acetyl derivatives in nucleophilic substitution reactions. <i>Chemistry of Heterocyclic Compounds</i> , 1992, 28, 43-47.	1.2	0

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91	Z/E(C=C)-isomerization and fluorescence modulation of imines of 7-N,N-dialkylamino-4-hydroxy-3-formylcoumarins in organic solvents. <i>Heterocyclic Communications</i> , 2011, , --.	1.2	0
92	Backbone 1H, 13C and 15N resonance assignments of the human eukaryotic release factor eRF1. <i>Biomolecular NMR Assignments</i> , 2015, 9, 37-42.	0.8	0
93	â€œSuppressor factorâ€•of neutrophils: A short story of a long-term misconception. <i>Biochemistry (Moscow)</i> , 2016, 81, 1284-1292.	1.5	0
94	Frontispiece: A Binuclear Zinc Interaction Fold Discovered in the Homodimer of Alzheimer's Amyloidâ€² Fragment with Taiwanese Mutation D7H. <i>Angewandte Chemie - International Edition</i> , 2017, 56, .	13.8	0
95	Frontispiz: A Binuclear Zinc Interaction Fold Discovered in the Homodimer of Alzheimer's Amyloidâ€² Fragment with Taiwanese Mutation D7H. <i>Angewandte Chemie</i> , 2017, 129, .	2.0	0