

Alexander N Popov

List of Publications by Year in descending order

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56
papers

3,993
citations

257450

24
h-index

182427

51
g-index

57
all docs

57
docs citations

57
times ranked

7029
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of cytosine methylation on DNA binding specificities of human transcription factors. <i>Science</i> , 2017, 356, .	12.6	912
2	DNA-dependent formation of transcription factor pairs alters their binding specificity. <i>Nature</i> , 2015, 527, 384-388.	27.8	462
3	A Steric Mechanism for Inhibition of CO Binding to Heme Proteins. <i>Science</i> , 1999, 284, 473-476.	12.6	315
4	Genomic insights into the formation of human populations in East Asia. <i>Nature</i> , 2021, 591, 413-419.	27.8	216
5	<i>EDNA</i>: a framework for plugin-based applications applied to X-ray experiment online data analysis. <i>Journal of Synchrotron Radiation</i> , 2009, 16, 872-879.	2.4	200
6	Palindromic assembly of the giant muscle protein titin in the sarcomeric Z-disk. <i>Nature</i> , 2006, 439, 229-233.	27.8	166
7	Structural insights into ion conduction by channelrhodopsin 2. <i>Science</i> , 2017, 358, .	12.6	160
8	Crystal structure of a light-driven sodium pump. <i>Nature Structural and Molecular Biology</i> , 2015, 22, 390-395.	8.2	146
9	<i>MeshAndCollect</i>: an automated multi-crystal data-collection workflow for synchrotron macromolecular crystallography beamlines. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015, 71, 2328-2343.	2.5	108
10	Optimization of data collection taking radiation damage into account. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2010, 66, 409-419.	2.5	106
11	Choice of data-collection parameters based on statistic modelling. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003, 59, 1145-1153.	2.5	105
12	Fully automatic characterization and data collection from crystals of biological macromolecules. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015, 71, 1757-1767.	2.5	102
13	A quantitative approach to data-collection strategies. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2006, 62, 58-64.	2.5	85
14	Structural insights into the proton pumping by unusual proteorhodopsin from nonmarine bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 12631-12636.	7.1	83
15	The application of hierarchical cluster analysis to the selection of isomorphous crystals. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2012, 68, 649-658.	2.5	80
16	Hydrophobin HFBII in detail: ultrahigh-resolution structure at 0.75Å. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2006, 62, 356-367.	2.5	71
17	Strain relief at the active site of phosphoserine aminotransferase induced by radiation damage. <i>Protein Science</i> , 2009, 14, 1498-1507.	7.6	50
18	Structural insights into the DNA-binding specificity of E2F family transcription factors. <i>Nature Communications</i> , 2015, 6, 10050.	12.8	43

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19	The 1.3Å... Crystal Structure of Human Mitochondrial β -Enoyl-CoA Isomerase Shows a Novel Mode of Binding for the Fatty Acyl Group. <i>Journal of Molecular Biology</i> , 2004, 342, 1197-1208.	4.2	42
20	Specialized sledge dogs accompanied Inuit dispersal across the North American Arctic. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20191929.	2.6	38
21	The use of workflows in the design and implementation of complex experiments in macromolecular crystallography. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2012, 68, 975-984.	2.5	37
22	Hierarchical clustering for multiple-crystal macromolecular crystallography experiments: the <i>ccCluster</i> program. <i>Journal of Applied Crystallography</i> , 2017, 50, 1844-1851.	4.5	34
23	The status of the macromolecular crystallography beamlines at the European Synchrotron Radiation Facility. <i>European Physical Journal Plus</i> , 2015, 130, 1.	2.6	31
24	Regulation of the hetero-octameric ATP phosphoribosyl transferase complex from <i>Thermotoga maritima</i> by a tRNA synthetase-like subunit. <i>Molecular Microbiology</i> , 2004, 55, 675-686.	2.5	28
25	Enhanced Selectivity for Sulfatide by Engineered Human Glycolipid Transfer Protein. <i>Structure</i> , 2011, 19, 1644-1654.	3.3	26
26	Molecular characterization of a family 5 glycoside hydrolase suggests an induced-fit enzymatic mechanism. <i>Scientific Reports</i> , 2016, 6, 23473.	3.3	25
27	X-ray structure at 1.76 Å... resolution of a polypeptide phospholipase A2 Inhibitor 1 Edited by R. Huber. <i>Journal of Molecular Biology</i> , 1997, 266, 160-172.	4.2	24
28	A survey of global radiation damage to 15 different protein crystal types at room temperature: a new decay model. <i>Journal of Synchrotron Radiation</i> , 2013, 20, 14-22.	2.4	24
29	Non-covalent interactions in the crystallization of the enantiomers of 1,7-dioxaspiro[5.5]undecane (olive fly sex pheromone) by enantiospecific cyclodextrin hosts, hexakis(2,3,6-tri-O-methyl)- β -cyclodextrin and heptakis(2,3,6-tri-O-methyl)- γ -cyclodextrin. <i>Acta Crystallographica Section B: Structural Science</i> , 2001, 57, 399-409.	1.8	22
30	Experimental procedure for the characterization of radiation damage in macromolecular crystals. <i>Journal of Synchrotron Radiation</i> , 2011, 18, 381-386.	2.4	22
31	Structural dynamics of double-helical RNAs composed of CUG/CUG- and CUG/CGG-repeats. <i>Journal of Biomolecular Structure and Dynamics</i> , 2012, 30, 505-523.	3.5	21
32	Structural and Functional Investigation of Flavin Binding Center of the NqrC Subunit of Sodium-Translocating NADH:Quinone Oxidoreductase from <i>Vibrio harveyi</i> . <i>PLoS ONE</i> , 2015, 10, e0118548.	2.5	21
33	The structure of <i>Aquifex aeolicus</i> FtsH in the ADP-bound state reveals a C_2 -symmetric hexamer. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015, 71, 1307-1318.	2.5	20
34	Improving the X-ray resolution by reversible flash-cooling combined with concentration screening, as exemplified with PPase. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2000, 56, 595-603.	2.5	17
35	Neolithization and Ancient Landscapes in Southern Primorye, Russian Far East. <i>Journal of World Prehistory</i> , 2014, 27, 247-261.	3.6	17
36	The subatomic resolution study of laccase inhibition by chloride and fluoride anions using single-crystal serial crystallography: insights into the enzymatic reaction mechanism. <i>Acta Crystallographica Section D: Structural Biology</i> , 2019, 75, 804-816.	2.3	17

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37	The complex analysis of X-ray mesh scans for macromolecular crystallography. <i>Acta Crystallographica Section D: Structural Biology</i> , 2018, 74, 355-365.	2.3	15
38	Crystal Structure of Escherichia coli-Expressed Haloarcula marismortui Bacteriorhodopsin I in the Trimeric Form. <i>PLoS ONE</i> , 2014, 9, e112873.	2.5	14
39	Mid-Holocene climatic changes and cultural dynamics in the basin of the Sea of Japan and adjacent areas. , 2007, , 331-406.		11
40	Structural insights into lipid-dependent reversible dimerization of human GLTP. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013, 69, 603-616.	2.5	11
41	An intact eightâ€membered water chain in drosophilid alcohol dehydrogenases is essential for optimal enzyme activity. <i>FEBS Journal</i> , 2012, 279, 2940-2956.	4.7	8
42	Facilitating best practices in collecting anomalous scattering data for<i>de novo</i>structure solution at the ESRF Structural Biology Beamlines. <i>Acta Crystallographica Section D: Structural Biology</i> , 2016, 72, 413-420.	2.3	8
43	Protein products obtained by siteâ€preferred partial crosslinking in protein crystals and â€eliberatedâ€by redissolution. <i>Biotechnology and Bioengineering</i> , 2014, 111, 1296-1303.	3.3	7
44	Dating and Stable Isotope Analysis of Charred Residues from Neolithic Sites in the Primorye, Russian Far East. <i>Radiocarbon</i> , 2017, 59, 565-573.	1.8	7
45	Purification, crystallization and preliminary X-ray analysis of the plectin actin-binding domain. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 1368-1370.	2.5	6
46	Preparation, Crystallization and Preliminary X-Ray Analysis of the Fab Fragment of Monoclonal Antibody MN423, Revealing the Structural Aspects of Alzheimers Paired Helical Filaments. <i>Protein and Peptide Letters</i> , 2006, 13, 941-944.	0.9	6
47	Insights into the Earliest Formative Period of Coastal Ecuador: New Evidence and Radiocarbon Dates from the Real Alto Site. <i>Radiocarbon</i> , 2016, 58, 323-330.	1.8	6
48	Paleometal Epoch in the Primorye (south of the Far East of Russia). <i>World Archaeology</i> , 2019, 51, 382-407.	1.1	6
49	New data on early pottery traditions in South America: the San Pedro complex, Ecuador. <i>Antiquity</i> , 2019, 93, .	1.0	3
50	NEOLITHIC CULTURES OF THE RUSSIAN FAR EAST: TECHNOLOGICAL EVOLUTION AND CULTURAL SEQUENCE. <i>Tuba-ar</i> , 2008, , 41-62.	0.1	3
51	SERGEYEVKA-1: NEOLITHIC SITE IN THE KHANKA PLAIN, AND THE TYPOLOGY OF MIDDLE NEOLITHIC SITES IN PRIMORYE. <i>Archaeology, Ethnology and Anthropology of Eurasia</i> , 2008, 35, 2-13.	0.2	2
52	A metric assessment of evidence for artificial cranial modification at the Boisman 2 Neolithic cemetery (ca. 5800â€5400 14C BP), Primorye, Russian Far East. <i>Quaternary International</i> , 2016, 405, 210-221.	1.5	2
53	The Preagricultural Human Occupation of Primorye (Russian Far East). , 2017, , 379-396.		2
54	Provenance and distribution networks of the earliest bronze in the Maritime Territory (Primorye), Russian Far East. <i>Journal of Island and Coastal Archaeology</i> , 2023, 18, 329-349.	1.4	0

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55	Cronicals of "Pacific archaeology", Camera Praehistorica, 2020, 5, 156-157.	0.1	0
56	A Functional Analysis of Lithics of the Early Iron Age Yankovsky Culture: New Findings. Archaeology, Ethnology and Anthropology of Eurasia, 2022, 50, 60-70.	0.0	0