

Oleg Y Dmitriev

List of Publications by Year in descending order

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34
papers

1,905
citations

361413

20
h-index

414414

32
g-index

34
all docs

34
docs citations

34
times ranked

2066
citing authors

#	ARTICLE	IF	CITATIONS
1	Function and Regulation of Human Copper-Transporting ATPases. <i>Physiological Reviews</i> , 2007, 87, 1011-1046.	28.8	679
2	Mechanics of coupling proton movements to c-ring rotation in ATP synthase. <i>FEBS Letters</i> , 2003, 555, 29-34.	2.8	138
3	Structure of the Membrane Domain of Subunit b of the <i>Escherichia coli</i> F ₀ F ₁ ATP Synthase. <i>Journal of Biological Chemistry</i> , 1999, 274, 15598-15604.	3.4	130
4	Solution structure of the N-domain of Wilson disease protein: Distinct nucleotide-binding environment and effects of disease mutations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 5302-5307.	7.1	107
5	Nanobodies as Probes for Protein Dynamics in Vitro and in Cells. <i>Journal of Biological Chemistry</i> , 2016, 291, 3767-3775.	3.4	84
6	Structural model of the transmembrane F _o rotary sector of H ⁺ -transporting ATP synthase derived by solution NMR and intersubunit cross-linking in situ. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2002, 1565, 232-245.	2.6	72
7	The soluble metal-binding domain of the copper transporter ATP7B binds and detoxifies cisplatin. <i>Biochemical Journal</i> , 2009, 419, 51-59.	3.7	60
8	Defining the Domain of Binding of F ₁ Subunit μ with the Polar Loop of F ₀ Subunit c in the <i>Escherichia coli</i> ATP Synthase. <i>Journal of Biological Chemistry</i> , 1999, 274, 17011-17016.	3.4	55
9	Molecular Events Initiating Exit of a Copper-transporting ATPase ATP7B from the Trans-Golgi Network. <i>Journal of Biological Chemistry</i> , 2012, 287, 36041-36050.	3.4	53
10	Copper chaperone Atox1 interacts with the metal-binding domain of Wilson's disease protein in cisplatin detoxification. <i>Biochemical Journal</i> , 2013, 454, 147-156.	3.7	53
11	Cellular copper levels determine the phenotype of the Arg ⁸⁷⁵ variant of ATP7B/Wilson disease protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 5390-5395.	7.1	47
12	The metal chaperone Atox1 regulates the activity of the human copper transporter ATP7B by modulating domain dynamics. <i>Journal of Biological Chemistry</i> , 2017, 292, 18169-18177.	3.4	45
13	Mechanism of tumor resistance to cisplatin mediated by the copper transporter ATP7B This paper is one of a selection of papers published in a Special Issue entitled CSBMCB 53rd Annual Meeting "Membrane Proteins in Health and Disease, and has undergone the Journal's usual peer review process.. <i>Biochemistry and Cell Biology</i> , 2011, 89, 138-147.	2.0	42
14	The use of nanopore analysis for discovering drugs which bind to α -synuclein for treatment of Parkinson's disease. <i>European Journal of Medicinal Chemistry</i> , 2014, 88, 42-54.	5.5	37
15	Difference in Stability of the N-domain Underlies Distinct Intracellular Properties of the E1064A and H1069Q Mutants of Copper-transporting ATPase ATP7B. <i>Journal of Biological Chemistry</i> , 2011, 286, 16355-16362.	3.4	35
16	Interactions between Metal-binding Domains Modulate Intracellular Targeting of Cu(I)-ATPase ATP7B, as Revealed by Nanobody Binding. <i>Journal of Biological Chemistry</i> , 2014, 289, 32682-32693.	3.4	33
17	Dynamics of the metal binding domains and regulation of the human copper transporters ATP7B and ATP7A. <i>IUBMB Life</i> , 2017, 69, 226-235.	3.4	32
18	Binding of Copper and Cisplatin to Atox1 Is Mediated by Glutathione through the Formation of Metal-Sulfur Clusters. <i>Biochemistry</i> , 2017, 56, 3129-3141.	2.5	27

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19	Cell-free synthesis of membrane subunits of ATP synthase in phospholipid bicelles: NMR shows subunit <i>a</i> fold similar to the protein in the cell membrane. <i>Protein Science</i> , 2012, 21, 279-288.	7.6	25
20	Subunit <i>a</i> of the <i>E. coli</i> ATP synthase: reconstitution and high resolution NMR with protein purified in a mixed polarity solvent. <i>FEBS Letters</i> , 2004, 556, 35-38.	2.8	22
21	Structure of Ala24/Asp61 ↔ Asp24/Asn61 Substituted Subunit <i>c</i> of <i>Escherichia coli</i> ATP Synthase: Implications for the Mechanism of Proton Transport and Rotary Movement in the <i>F_o</i> Complex. <i>Biochemistry</i> , 2002, 41, 5537-5547.	2.5	19
22	The oligomeric subunit C rotor in the <i>f_o</i> sector of ATP synthase: unresolved questions in our understanding of function. <i>Journal of Bioenergetics and Biomembranes</i> , 2000, 32, 433-439.	2.3	18
23	The rigid connecting loop stabilizes hairpin folding of the two helices of the ATP synthase subunit <i>c</i> . <i>Protein Science</i> , 2007, 16, 2118-2122.	7.6	18
24	The Structure of Metal Binding Domain 1 of the Copper Transporter ATP7B Reveals Mechanism of a Singular Wilson Disease Mutation. <i>Scientific Reports</i> , 2018, 8, 581.	3.3	15
25	The KH domain facilitates the substrate specificity and unwinding processivity of DDX43 helicase. <i>Journal of Biological Chemistry</i> , 2021, 296, 100085.	3.4	15
26	Interaction with Monomeric Subunit <i>c</i> Drives Insertion of ATP Synthase Subunit <i>a</i> into the Membrane and Primes <i>a-c</i> Complex Formation. <i>Journal of Biological Chemistry</i> , 2011, 286, 38583-38591.	3.4	11
27	Letter to the Editor: Backbone ¹ H, ¹⁵ N and ¹³ C Assignments for the Subunit <i>a</i> of the <i>E. Coli</i> ATP Synthase. <i>Journal of Biomolecular NMR</i> , 2004, 29, 439-440.	2.8	7
28	Interaction of transmembrane helices in ATP synthase subunit <i>a</i> in solution as revealed by spin label difference NMR. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008, 1777, 227-237.	1.0	7
29	Molecular Architecture of the Copper-Transporting ATPase ATP7B. , 2019, , 33-43.		6
30	Engineered Protein Model of the ATP synthase H ⁺ - Channel Shows No Salt Bridge at the Rotor-Stator Interface. <i>Scientific Reports</i> , 2018, 8, 11361.	3.3	4
31	NMR assignment of the Wilson disease associated protein N-domain. <i>Journal of Biomolecular NMR</i> , 2006, 36, 61-61.	2.8	3
32	Crystallization and preliminary X-ray studies of the N-domain of the Wilson disease associated protein. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2009, 65, 621-624.	0.7	3
33	At sixes and sevens: cryptic domain in the metal binding chain of the human copper transporter ATP7A. <i>Biophysical Journal</i> , 2021, 120, 4600-4607.	0.5	3
34	Nanobodies against the metal binding domains of ATP7B as tools to study copper transport in the cell. <i>Metallomics</i> , 2020, 12, 1941-1950.	2.4	0