

Olga V Stepanenko

List of Publications by Year in descending order

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46
papers

788
citations

623188

14
h-index

525886

27
g-index

52
all docs

52
docs citations

52
times ranked

875
citing authors

#	ARTICLE	IF	CITATIONS
1	Modern fluorescent proteins: from chromophore formation to novel intracellular applications. <i>BioTechniques</i> , 2011, 51, 313-327.	0.8	137
2	Unraveling multistate unfolding of rabbit muscle creatine kinase. <i>BBA - Proteins and Proteomics</i> , 2002, 1596, 138-155.	2.1	96
3	Beta-Barrel Scaffold of Fluorescent Proteins. <i>International Review of Cell and Molecular Biology</i> , 2013, 302, 221-278.	1.6	75
4	The Place of Inactivated Actin and Its Kinetic Predecessor in Actin Folding and Unfolding. <i>Biochemistry</i> , 2002, 41, 13127-13132.	1.2	45
5	Allosteric effects of chromophore interaction with dimeric near-infrared fluorescent proteins engineered from bacterial phytochromes. <i>Scientific Reports</i> , 2016, 6, 18750.	1.6	35
6	Protein unfolding in crowded milieu: what crowding can do to a protein undergoing unfolding?. <i>Journal of Biomolecular Structure and Dynamics</i> , 2016, 34, 2155-2170.	2.0	28
7	Unfolding and Refolding of the Glutamine-Binding Protein from <i>Escherichia coli</i> and Its Complex with Glutamine Induced by Guanidine Hydrochloride. <i>Biochemistry</i> , 2005, 44, 5625-5633.	1.2	27
8	A knot in the protein structure of a near-infrared fluorescent protein designed from a bacterial phytochrome. <i>FEBS Journal</i> , 2014, 281, 2284-2298.	2.2	20
9	Effect of flavonoids on the phase separation in giant unilamellar vesicles formed from binary lipid mixtures. <i>Chemistry and Physics of Lipids</i> , 2014, 178, 77-83.	1.5	20
10	Distinct Effects of Guanidine Thiocyanate on the Structure of Superfolder GFP. <i>PLoS ONE</i> , 2012, 7, e48809.	1.1	19
11	Sensitivity of Superfolder GFP to Ionic Agents. <i>PLoS ONE</i> , 2014, 9, e110750.	1.1	18
12	Conformational Change of the Dimeric DsbC Molecule Induced by GdnHCl. A Study by Intrinsic Fluorescence. <i>Biochemistry</i> , 2004, 43, 5296-5303.	1.2	17
13	Spectral characteristics of the mutant form GGBP/H152C of D-glucose/D-galactose-binding protein labeled with fluorescent dye BADAN: influence of external factors. <i>PeerJ</i> , 2014, 2, e275.	0.9	16
14	Fluorescence Properties of Glutamine-Binding Protein from <i>Escherichia coli</i> and Its Complex with Glutamine. <i>Journal of Proteome Research</i> , 2005, 4, 417-423.	1.8	15
15	Denaturant effect on amyloid fibrils: Declusterization, depolymerization, denaturation and reassembly. <i>International Journal of Biological Macromolecules</i> , 2020, 150, 681-694.	3.6	15
16	Stabilization of structure in near-infrared fluorescent proteins by binding of biliverdin chromophore. <i>Journal of Molecular Structure</i> , 2017, 1140, 22-31.	1.8	14
17	Trypsin Induced Degradation of Amyloid Fibrils. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4828.	1.8	14
18	New Insight in Protein-Ligand Interactions. 2. Stability and Properties of Two Mutant Forms of the D-Galactose-D-Glucose-Binding Protein from <i>E. coli</i> . <i>Journal of Physical Chemistry B</i> , 2011, 115, 9022-9032.	1.2	13

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19	New Insight into Protein-Ligand Interactions. The Case of the D-Galactose/D-Glucose-Binding Protein from <i>Escherichia coli</i> . <i>Journal of Physical Chemistry B</i> , 2011, 115, 2765-2773.	1.2	13
20	New findings on GFP-like protein application as fluorescent tags: Fibrillogenesis, oligomerization, and amorphous aggregation. <i>International Journal of Biological Macromolecules</i> , 2021, 192, 1304-1310.	3.6	13
21	Highly UV-Absorbing Complex in Selenomethionine-Substituted Alcohol Dehydrogenase from <i>Sulfolobus solfataricus</i> . <i>Journal of Proteome Research</i> , 2004, 3, 613-620.	1.8	12
22	Peculiarities of the Super-Folder GFP Folding in a Crowded Milieu. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1805.	1.8	12
23	Expression of recombinant GFP-actin fusion protein in the methylotrophic yeast. <i>FEMS Yeast Research</i> , 2003, 3, 105-111.	1.1	11
24	Interaction of Biliverdin Chromophore with Near-Infrared Fluorescent Protein BphP1-FP Engineered from Bacterial Phytochrome. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1009.	1.8	11
25	Folding of poly-amino acids and intrinsically disordered proteins in overcrowded milieu induced by pH change. <i>International Journal of Biological Macromolecules</i> , 2019, 125, 244-255.	3.6	11
26	The Quaternary Structure of the Recombinant Bovine Odorant-Binding Protein Is Modulated by Chemical Denaturants. <i>PLoS ONE</i> , 2014, 9, e85169.	1.1	9
27	Effects of low urea concentrations on protein-water interactions. <i>Journal of Biomolecular Structure and Dynamics</i> , 2017, 35, 207-218.	2.0	8
28	Near-Infrared Markers based on Bacterial Phytochromes with Phycocyanobilin as a Chromophore. <i>International Journal of Molecular Sciences</i> , 2019, 20, 6067.	1.8	8
29	Alpha-B-Crystallin Effect on Mature Amyloid Fibrils: Different Degradation Mechanisms and Changes in Cytotoxicity. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7659.	1.8	7
30	Photo-dependent membrane-less organelles formed from plant phyB and PIF6 proteins in mammalian cells. <i>International Journal of Biological Macromolecules</i> , 2021, 176, 325-331.	3.6	7
31	Tryptophan Residue of the D-Galactose/D-Glucose-Binding Protein from <i>E. Coli</i> Localized in its Active Center Does not Contribute to the Change in Intrinsic Fluorescence Upon Glucose Binding. <i>Journal of Fluorescence</i> , 2015, 25, 87-94.	1.3	6
32	Structure and stability of recombinant bovine odorant-binding protein: III. Peculiarities of the wild type bOBP unfolding in crowded milieu. <i>PeerJ</i> , 2016, 4, e1642.	0.9	5
33	sfGFP throws light on the early stages of β -barrel amyloidogenesis. <i>International Journal of Biological Macromolecules</i> , 2022, 215, 224-234.	3.6	5
34	Structure and stability of D-galactose/D-glucose-binding protein. The role of D-glucose binding and Ca ion depletion. <i>Spectroscopy</i> , 2010, 24, 355-359.	0.8	4
35	Structure and stability of recombinant bovine odorant-binding protein: I. Design and analysis of monomeric mutants. <i>PeerJ</i> , 2016, 4, e1933.	0.9	4
36	Ligand-Binding Proteins: Structure, Stability and Practical Application. , 0, , .		3

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37	The Pathways of the iRFP713 Unfolding Induced by Different Denaturants. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2776.	1.8	3
38	Photophysical Properties of BADAN Revealed in the Study of GGBP Structural Transitions. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11113.	1.8	3
39	Protein-Ligand Interactions of the D-Galactose/D-Glucose-Binding Protein as a Potential Sensing Probe of Glucose Biosensors. <i>Spectroscopy</i> , 2012, 27, 373-379.	0.8	2
40	Probing the allostery in dimeric near-infrared biomarkers derived from the bacterial phytochromes: The impact of the T204A substitution on the inter-monomer interaction. <i>International Journal of Biological Macromolecules</i> , 2020, 162, 894-902.	3.6	2
41	Structure and stability of recombinant bovine odorant-binding protein: II. Unfolding of the monomeric forms. <i>PeerJ</i> , 2016, 4, e1574.	0.9	2
42	Structural Perturbation of Superfolder GFP in the Presence of Guanidine Thiocyanate. <i>Spectroscopy</i> , 2012, 27, 381-386.	0.8	1
43	The unfolding of iRFP713 in a crowded milieu. <i>PeerJ</i> , 2019, 7, e6707.	0.9	1
44	Impact of Double Covalent Binding of BV in NIR FPs on Their Spectral and Physicochemical Properties. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7347.	1.8	1
45	Interaction between non-histone chromatin protein HMGB1 and linker histone H1. <i>Cell and Tissue Biology</i> , 2011, 5, 120-122.	0.2	0
46	Interaction of Monomers in Near-Infrared Fluorescent Biomarkers. <i>Cell and Tissue Biology</i> , 2021, 15, 310-315.	0.2	0