

Olesya V Stepanenko

List of Publications by Citations

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37
papers

586
citations

12
h-index

23
g-index

48
ext. papers

733
ext. citations

5.1
avg, IF

3.62
L-index

#	Paper	IF	Citations
37	Fluorescent proteins as biomarkers and biosensors: throwing color lights on molecular and cellular processes. <i>Current Protein and Peptide Science</i> , 2008 , 9, 338-69	2.8	117
36	Modern fluorescent proteins: from chromophore formation to novel intracellular applications. <i>BioTechniques</i> , 2011 , 51, 313-4, 316, 318 passim	2.5	105
35	Beta-barrel scaffold of fluorescent proteins: folding, stability and role in chromophore formation. <i>International Review of Cell and Molecular Biology</i> , 2013 , 302, 221-78	6	57
34	Near-Infrared Fluorescent Proteins: Multiplexing and Optogenetics across Scales. <i>Trends in Biotechnology</i> , 2018 , 36, 1230-1243	15.1	42
33	Hydrophobic interactions and ionic networks play an important role in thermal stability and denaturation mechanism of the porcine odorant-binding protein. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008 , 71, 35-44	4.2	28
32	Allosteric effects of chromophore interaction with dimeric near-infrared fluorescent proteins engineered from bacterial phytochromes. <i>Scientific Reports</i> , 2016 , 6, 18750	4.9	28
31	Stability and dynamics of the porcine odorant-binding protein. <i>Biochemistry</i> , 2007 , 46, 11120-7	3.2	25
30	A knot in the protein structure - probing the near-infrared fluorescent protein iRFP designed from a bacterial phytochrome. <i>FEBS Journal</i> , 2014 , 281, 2284-98	5.7	17
29	Near-Infrared Fluorescent Proteins and Their Applications. <i>Biochemistry (Moscow)</i> , 2019 , 84, S32-S50	2.9	15
28	Distinct effects of guanidine thiocyanate on the structure of superfolder GFP. <i>PLoS ONE</i> , 2012 , 7, e48809	3.7	14
27	Understanding the role of Arg96 in structure and stability of green fluorescent protein. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008 , 73, 539-51	4.2	13
26	Sensitivity of superfolder GFP to ionic agents. <i>PLoS ONE</i> , 2014 , 9, e110750	3.7	13
25	New insight in protein-ligand interactions. 2. Stability and properties of two mutant forms of the D-galactose/D-glucose-binding protein from E. coli. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 9022-32	3.4	12
24	Stabilization of structure in near-infrared fluorescent proteins by binding of biliverdin chromophore. <i>Journal of Molecular Structure</i> , 2017 , 1140, 22-31	3.4	11
23	New insight into protein-ligand interactions. The case of the D-galactose/D-glucose-binding protein from Escherichia coli. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 2765-73	3.4	11
22	Liquid-liquid phase separation as an organizing principle of intracellular space: overview of the evolution of the cell compartmentalization concept.. <i>Cellular and Molecular Life Sciences</i> , 2022 , 79, 251	10.3	9
21	Interaction of Biliverdin Chromophore with Near-Infrared Fluorescent Protein BphP1-FP Engineered from Bacterial Phytochrome. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	8

20	Peculiarities of the Super-Folder GFP Folding in a Crowded Milieu. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	8
19	The quaternary structure of the recombinant bovine odorant-binding protein is modulated by chemical denaturants. <i>PLoS ONE</i> , 2014 , 9, e85169	3.7	7
18	Tryptophan residue of the D-galactose/D-glucose-binding protein from E. Coli 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	2.4	5
17	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	7.9	5
16	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		4
15	Denaturation of proteins with beta-barrel topology induced by guanidine hydrochloride. <i>Spectroscopy</i> , 2010 , 24, 367-373		4
14	Structure and stability of recombinant bovine odorant-binding protein: I. Design and analysis of monomeric mutants. <i>PeerJ</i> , 2016 , 4, e1933	3.1	4
13	Trypsin Induced Degradation of Amyloid Fibrils. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	4
12	Near-Infrared Markers based on Bacterial Phytochromes with Phycocyanobilin as a Chromophore. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	4
11	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	3.1	3
10	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		2
9	Ligand-Binding Proteins: Structure, Stability and Practical Application 2012 ,		2
8	New Evidence of the Importance of Weak Interactions in the Formation of PML-Bodies.. <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.3	2
7	Structure and stability of recombinant bovine odorant-binding protein: II. Unfolding of the monomeric forms. <i>PeerJ</i> , 2016 , 4, e1574	3.1	2
6	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	7.9	2
5	Alpha-B-Crystallin Effect on Mature Amyloid Fibrils: Different Degradation Mechanisms and Changes in Cytotoxicity. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	1
4	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	7.9	1
3	The Pathways of the iRFP713 Unfolding Induced by Different Denaturants. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	1

2 Structural Perturbation of Superfolder GFP in the Presence of Guanidine Thiocyanate. *Spectroscopy*, **2012**, 27, 381-386

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1 Interaction of Monomers in Near-Infrared Fluorescent Biomarkers. *Cell and Tissue Biology*, **2021**, 15, 310-315