# Olesya V Stepanenko

List of Publications by Year
in descending order



| 43 | 847 | 623574 | 501076 |
|---|---|---|---|
| papers | citations | 14 h-index | 28 g-index |

| 48 | 48 | 48 | 1090 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Modern fluorescent proteins: from chromophore formation to novel intracellular applications. BioTechniques, 2011, 51, 313-327. | 0.8 | 137 |
| 2 | Fluorescent Proteins as Biomarkers and Biosensors: Throwing Color Lights on Molecular and Cellular Processes. Current Protein and Peptide Science, 2008, 9, 338-369. | 0.7 | 136 |
| 3 | Near-Infrared Fluorescent Proteins: Multiplexing and Optogenetics across Scales. Trends in Biotechnology, 2018, 36, 1230-1243. | 4.9 | 76 |
| 4 | Beta-Barrel Scaffold of Fluorescent Proteins. International Review of Cell and Molecular Biology, 2013, 302, 221-278. | 1.6 | 75 |
| 5 | Liquidâ€“liquid phase separation as an organizing principle of intracellular space: overview of the evolution of the cell compartmentalization concept. Cellular and Molecular Life Sciences, 2022, 79, 251. | 2.4 | 42 |
| 6 | Allosteric effects of chromophore interaction with dimeric near-infrared fluorescent proteins engineered from bacterial phytochromes. Scientific Reports, 2016, 6, 18750. | 1.6 | 35 |
| 7 | Hydrophobic interactions and ionic networks play an important role in thermal stability and denaturation mechanism of the porcine odorantâ€binding protein. Proteins: Structure, Function and Bioinformatics, 2008, 71, 35-44. | 1.5 | 32 |
| 8 | Near-Infrared Fluorescent Proteins and Their Applications. Biochemistry (Moscow), 2019, 84, 32-50. | 0.7 | 28 |
| 9 | Stability and Dynamics of the Porcine Odorant-Binding Protein. Biochemistry, 2007, 46, 11120-11127. | 1.2 | 27 |
| 10 | A knot in the protein structure â€“ probing the nearâ€infrared fluorescent protein i<scp>RFP</scp> designed from a bacterial phytochrome. FEBS Journal, 2014, 281, 2284-2298. | 2.2 | 20 |
| 11 | Distinct Effects of Guanidine Thiocyanate on the Structure of Superfolder GFP. PLoS ONE, 2012, 7, e48809. | 1.1 | 19 |
| 12 | Sensitivity of Superfolder GFP to Ionic Agents. PLoS ONE, 2014, 9, e110750. | 1.1 | 18 |
| 13 | Understanding the role of Arg96 in structure and stability of green fluorescent protein. Proteins: Structure, Function and Bioinformatics, 2008, 73, 539-551. | 1.5 | 15 |
| 14 | Stabilization of structure in near-infrared fluorescent proteins by binding of biliverdin chromophore. Journal of Molecular Structure, 2017, 1140, 22-31. | 1.8 | 14 |
| 15 | Trypsin Induced Degradation of Amyloid Fibrils. International Journal of Molecular Sciences, 2021, 22, 4828. | 1.8 | 14 |
| 16 | New Insight in Proteinâ€“Ligand Interactions. 2. Stability and Properties of Two Mutant Forms of the <scp>d</scp>-Galactose/<scp>d</scp>-Glucose-Binding Protein from E. coli. Journal of Physical Chemistry B, 2011, 115, 9022-9032. | 1.2 | 13 |
| 17 | New Insight into Proteinâ^'Ligand Interactions. The Case of thed-Galactose/d-Glucose-Binding Protein fromEscherichia coli. Journal of Physical Chemistry B, 2011, 115, 2765-2773. | 1.2 | 13 |
| 18 | New findings on GFP-like protein application as fluorescent tags: Fibrillogenesis, oligomerization, and amorphous aggregation. International Journal of Biological Macromolecules, 2021, 192, 1304-1310. | 3.6 | 13 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Peculiarities of the Super-Folder GFP Folding in a Crowded Milieu. International Journal of Molecular Sciences, 2016, 17, 1805. | 1.8 | 12 |
| 20 | Interaction of Biliverdin Chromophore with Near-Infrared Fluorescent Protein BphP1-FP Engineered from Bacterial Phytochrome. International Journal of Molecular Sciences, 2017, 18, 1009. | 1.8 | 11 |
| 21 | Î²-Barrels and Amyloids: Structural Transitions, Biological Functions, and Pathogenesis. International Journal of Molecular Sciences, 2021, 22, 11316. | 1.8 | 11 |
| 22 | The Quaternary Structure of the Recombinant Bovine Odorant-Binding Protein Is Modulated by Chemical Denaturants. PLoS ONE, 2014, 9, e85169. | 1.1 | 9 |
| 23 | New Evidence of the Importance of Weak Interactions in the Formation of PML-Bodies. International Journal of Molecular Sciences, 2022, 23, 1613. | 1.8 | 9 |
| 24 | Near-Infrared Markers based on Bacterial Phytochromes with Phycocyanobilin as a Chromophore. International Journal of Molecular Sciences, 2019, 20, 6067. | 1.8 | 8 |
| 25 | Alpha-B-Crystallin Effect on Mature Amyloid Fibrils: Different Degradation Mechanisms and Changes in Cytotoxicity. International Journal of Molecular Sciences, 2020, 21, 7659. | 1.8 | 7 |
| 26 | Photo-dependent membrane-less organelles formed from plant phyB and PIF6 proteins in mammalian cells. International Journal of Biological Macromolecules, 2021, 176, 325-331. | 3.6 | 7 |
| 27 | 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. Journal of Fluorescence, 2015, 25, 87-94. | 1.3 | 6 |
| 28 | Structure and stability of recombinant bovine odorant-binding protein: III. Peculiarities of the wild type bOBP unfolding in crowded milieu. PeerJ, 2016, 4, e1642. | 0.9 | 5 |
| 29 | sfGFP throws light on the early stages of Î²-barrel amyloidogenesis. International Journal of Biological Macromolecules, 2022, 215, 224-234. | 3.6 | 5 |
| 30 | Structure and stability of D-galactose/D-glucose-binding protein. The role of D-glucose binding and Ca ion depletion. Spectroscopy, 2010, 24, 355-359. | 0.8 | 4 |
| 31 | Denaturation of proteins with beta-barrel topology induced by guanidine hydrochloride. Spectroscopy, 2010, 24, 367-373. | 0.8 | 4 |
| 32 | Structure and stability of recombinant bovine odorant-binding protein: I. Design and analysis of monomeric mutants. PeerJ, 2016, 4, e1933. | 0.9 | 4 |
| 33 | Ligand-Binding Proteins: Structure, Stability and Practical Application. , 0, , . | | 3 |
| 34 | The Pathways of the iRFP713 Unfolding Induced by Different Denaturants. International Journal of Molecular Sciences, 2018, 19, 2776. | 1.8 | 3 |
| 35 | Photophysical Properties of BADAN Revealed in the Study of GGBP Structural Transitions. International Journal of Molecular Sciences, 2021, 22, 11113. | 1.8 | 3 |
| 36 | Protein-Ligand Interactions of the D-Galactose/D-Glucose-Binding Protein as a Potential Sensing Probe of Glucose Biosensors. Spectroscopy, 2012, 27, 373-379. | 0.8 | 2 |

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|---|---|---|---|
| 37 | Probing the allostery in dimeric near-infrared biomarkers derived from the bacterial phytochromes: The impact of the T204A substitution on the inter-monomer interaction. International Journal of Biological Macromolecules, 2020, 162, 894-902. | 3.6 | 2 |
| 38 | Structure and stability of recombinant bovine odorant-binding protein: II. Unfolding of the monomeric forms. PeerJ, 2016, 4, e1574. | 0.9 | 2 |
| 39 | Structural Perturbation of Superfolder GFP in the Presence of Guanidine Thiocyanate. Spectroscopy, 2012, 27, 381-386. | 0.8 | 1 |
| 40 | The unfolding of iRFP713 in a crowded milieu. PeerJ, 2019, 7, e6707. | 0.9 | 1 |
| 41 | Impact of Double Covalent Binding of BV in NIR FPs on Their Spectral and Physicochemical Properties. International Journal of Molecular Sciences, 2022, 23, 7347. | 1.8 | 1 |
| 42 | New perspectives in protein-based biosensors: the glucokinase from B. stearothermophilus and the odorant-binding protein from C. familiaris as probes for non-consuming analyte sensors. , 2007, , . | | 0 |
| 43 | Interaction of Monomers in Near-Infrared Fluorescent Biomarkers. Cell and Tissue Biology, 2021, 15, 310-315. | 0.2 | 0 |