Elena Nemtseva

List of Publications by Year
in descending order

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35	464	687363 13	713466 21
papers	citations	h-index	g-index

36	36	36	266
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Specific Activities of Hydromedusan Ca²⁺â€Regulated Photoproteins. Photochemistry and Photobiology, 2022, 98, 276-284.	2.5	5
2	Mechanisms of Viscous Media Effects on Elementary Steps of Bacterial Bioluminescent Reaction. International Journal of Molecular Sciences, 2021, 22, 8827.	4.1	4
3	Bacterial Luciferases from Vibrio harveyi and Photobacterium leiognathi Demonstrate Different Conformational Stability as Detected by Time-Resolved Fluorescence Spectroscopy. International Journal of Molecular Sciences, 2021, 22, 10449.	4.1	3
4	Crystal structure of semisynthetic obelinâ€•v. Protein Science, 2021, , .	7.6	4
5	Enzymatic Responses to Low-Intensity Radiation of Tritium. International Journal of Molecular Sciences, 2020, 21, 8464.	4.1	7
6	Luminescence Activity Decreases When v â€coelenterazine Replaces Coelenterazine in Calciumâ€Regulated Photoproteinâ€"A Theoretical and Experimental Study. Photochemistry and Photobiology, 2020, 96, 1047-1060.	2.5	10
7	Exploring Bioluminescence Function of the Ca²⁺â€regulated Photoproteins with Siteâ€directed Mutagenesis. Photochemistry and Photobiology, 2019, 95, 8-23.	2.5	14
8	Functional divergence between evolutionaryâ€related LuxG and Fre oxidoreductases of luminous bacteria. Proteins: Structure, Function and Bioinformatics, 2019, 87, 723-729.	2.6	4
9	Experimental approach to study the effect of mutations on the protein folding pathway. PLoS ONE, 2019, 14, e0210361.	2.5	12
10	Fluorescence lifetime components reveal kinetic intermediate states upon equilibrium denaturation of carbonic anhydrase II. Methods and Applications in Fluorescence, 2018, 6, 015006.	2.3	4
11	Bioluminescent assay for toxicological assessment of nanomaterials. Doklady Biochemistry and Biophysics, 2017, 472, 60-63.	0.9	2
12	Unanimous Model for Describing the Fast Bioluminescence Kinetics of Ca²⁺â€regulated Photoproteins of Different Organisms. Photochemistry and Photobiology, 2017, 93, 495-502.	2.5	9
13	Bioluminescent enzyme inhibition-based assay to predict the potential toxicity of carbon nanomaterials. Toxicology in Vitro, 2017, 45, 128-133.	2.4	13
14	Similarity of decay-associated spectra for tryptophan fluorescence of proteins with different structures. Biophysics (Russian Federation), 2016, 61, 193-199.	0.7	6
15	Mitrocomin from the jellyfish Mitrocoma cellularia with deleted C-terminal tyrosine reveals a higher bioluminescence activity compared to wild type photoprotein. Journal of Photochemistry and Photobiology B: Biology, 2016, 162, 286-297.	3.8	18
16	Structural distinctions of fast and slow bacterial luciferases revealed by phylogenetic analysis. Bioinformatics, 2016, 32, 3053-3057.	4.1	12
17	Spectral Changes of Erythrosin B Luminescence Upon Binding to Bovine Serum Albumin. Russian Physics Journal, 2016, 58, 1797-1803.	0.4	5
18	Contrasting relationship between macro- and microviscosity of the gelatin- and starch-based suspensions and gels. Polymer Bulletin, 2016, 73, 3421-3435.	3.3	11

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19	Structures of the Ca²⁺-regulated photoprotein obelin Y138F mutant before and after bioluminescence support the catalytic function of a water molecule in the reaction. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 720-732.	2.5	23
20	Hydrogen-bond networks between the C-terminus and Arg from the first Î±-helix stabilize photoprotein molecules. Photochemical and Photobiological Sciences, 2014, 13, 541-547.	2.9	15
21	Gelatin and starch as stabilizers of the coupled enzyme system of luminous bacteria NADH:FMNâ€“oxidoreductaseâ€“luciferase. Analytical and Bioanalytical Chemistry, 2014, 406, 5743-5747.	3.7	22
22	Role of key residues of obelin in coelenterazine binding and conversion into 2-hydroperoxy adduct. Journal of Photochemistry and Photobiology B: Biology, 2013, 127, 133-139.	3.8	26
23	Oxygen Activation of Apoâ€obelinâ€“Coelenterazine Complex. ChemBioChem, 2013, 14, 739-745.	2.6	31
24	Bioluminescent and spectroscopic properties of Hisâ€”Trpâ€”Tyr triad mutants of obelin and aequorin. Photochemical and Photobiological Sciences, 2013, 12, 1016-1024.	2.9	30
25	Ligand binding and conformational states of the photoprotein obelin. FEBS Letters, 2012, 586, 4173-4179.	2.8	4
26	Effect of halogenated fluorescent compounds on bioluminescent reactions. Analytical and Bioanalytical Chemistry, 2011, 400, 343-351.	3.7	22
27	Picosecond Fluorescence Relaxation Spectroscopy of the Calcium-Discharged Photoproteins Aequorin and Obelin. Biochemistry, 2009, 48, 10486-10491.	2.5	28
28	MECHANISMS OF HEAVY ATOM EFFECT IN BIOLUMINESCENT REACTIONS. , 2008, , .		0
29	The mechanism of electronic excitation in the bacterial bioluminescent reaction. Russian Chemical Reviews, 2007, 76, 91-100.	6.5	42
30	Exogenous compounds in studying the mechanism of electron-excited state formation in bioluminescence. Biopolymers, 2004, 74, 100-104.	2.4	8
31	Interaction of aromatic compounds withPhotobacterium leiognathi luciferase: fluorescence anisotropy study. Luminescence, 2003, 18, 156-161.	2.9	10
32	Estimation of energy of the upper electron-excited states of the bacterial bioluminescent emitter. Journal of Photochemistry and Photobiology B: Biology, 2002, 68, 88-92.	3.8	12
33	Function of Ca-pump in sarcoplasmic reticulum of rat myocardium during adaptation to electromagnetic field. Bulletin of Experimental Biology and Medicine, 2002, 134, 538-540.	0.8	0
34	Upper electron-excited states in bioluminescence: experimental indication. Luminescence, 2001, 16, 243-246.	2.9	5
35	Development of bioluminescent bioindicators for analysis of environmental pollution. Field Analytical Chemistry and Technology, 1998, 2, 277-280.	0.8	43