Elena Nemtseva

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8007135/publications.pdf

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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	Development of bioluminescent bioindicators for analysis of environmental pollution. Field Analytical Chemistry and Technology, 1998, 2, 277-280.	0.8	43
2	The mechanism of electronic excitation in the bacterial bioluminescent reaction. Russian Chemical Reviews, 2007, 76, 91-100.	6.5	42
3	Oxygen Activation of Apoâ€obelinâ€“Coelenterazine Complex. ChemBioChem, 2013, 14, 739-745.	2.6	31
4	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
5	Picosecond Fluorescence Relaxation Spectroscopy of the Calcium-Discharged Photoproteins Aequorin and Obelin. Biochemistry, 2009, 48, 10486-10491.	2.5	28
6	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
7	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
8	Effect of halogenated fluorescent compounds on bioluminescent reactions. Analytical and Bioanalytical Chemistry, 2011, 400, 343-351.	3.7	22
9	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
10	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
11	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
12	Exploring Bioluminescence Function of the Ca²⁺â€regulated Photoproteins with Siteâ€directed Mutagenesis. Photochemistry and Photobiology, 2019, 95, 8-23.	2.5	14
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	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
15	Structural distinctions of fast and slow bacterial luciferases revealed by phylogenetic analysis. Bioinformatics, 2016, 32, 3053-3057.	4.1	12
16	Experimental approach to study the effect of mutations on the protein folding pathway. PLoS ONE, 2019, 14, e0210361.	2.5	12
17	Contrasting relationship between macro- and microviscosity of the gelatin- and starch-based suspensions and gels. Polymer Bulletin, 2016, 73, 3421-3435.	3.3	11
18	Interaction of aromatic compounds withPhotobacterium leiognathi luciferase: fluorescence anisotropy study. Luminescence, 2003, 18, 156-161.	2.9	10

#	Article	IF	Citations
19	Luminescence Activity Decreases When ν â€coelenterazine Replaces Coelenterazine in Calciumâ€Regulated Photoproteinâ€"A Theoretical and Experimental Study. Photochemistry and Photobiology, 2020, 96, 1047-1060.	2.5	10
20	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
21	Exogenous compounds in studying the mechanism of electron-excited state formation in bioluminescence. Biopolymers, 2004, 74, 100-104.	2.4	8
22	Enzymatic Responses to Low-Intensity Radiation of Tritium. International Journal of Molecular Sciences, 2020, 21, 8464.	4.1	7
23	Similarity of decay-associated spectra for tryptophan fluorescence of proteins with different structures. Biophysics (Russian Federation), 2016, 61, 193-199.	0.7	6
24	Upper electron-excited states in bioluminescence: experimental indication. Luminescence, 2001, 16, 243-246.	2.9	5
25	Spectral Changes of Erythrosin B Luminescence Upon Binding to Bovine Serum Albumin. Russian Physics Journal, 2016, 58, 1797-1803.	0.4	5
26	Specific Activities of Hydromedusan Ca²⁺â€Regulated Photoproteins. Photochemistry and Photobiology, 2022, 98, 276-284.	2.5	5
27	Ligand binding and conformational states of the photoprotein obelin. FEBS Letters, 2012, 586, 4173-4179.	2.8	4
28	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
29	Functional divergence between evolutionaryâ€related LuxG and Fre oxidoreductases of luminous bacteria. Proteins: Structure, Function and Bioinformatics, 2019, 87, 723-729.	2.6	4
30	Mechanisms of Viscous Media Effects on Elementary Steps of Bacterial Bioluminescent Reaction. International Journal of Molecular Sciences, 2021, 22, 8827.	4.1	4
31	Crystal structure of semisynthetic obelinâ€•v. Protein Science, 2021, , .	7.6	4
32	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
33	Bioluminescent assay for toxicological assessment of nanomaterials. Doklady Biochemistry and Biophysics, 2017, 472, 60-63.	0.9	2
34	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
35	MECHANISMS OF HEAVY ATOM EFFECT IN BIOLUMINESCENT REACTIONS. , 2008, , .		0