Svetlana V Markova

List of Publications by Year
in descending order

43	1,396	257450 24	330143 37
papers	citations	h-index	g-index

44	44	44	577
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Production of Metridia Luciferase in Native Form by Oxidative Refolding from E. coli Inclusion Bodies. Methods in Molecular Biology, 2022, , 59-73.	0.9	1
2	The Smallest Isoform of Metridia longa Luciferase as a Fusion Partner for Hybrid Proteins. International Journal of Molecular Sciences, 2020, 21, 4971.	4.1	6
3	Shining Light on the Secreted Luciferases of Marine Copepods: Current Knowledge and Applications. Photochemistry and Photobiology, 2019, 95, 705-721.	2.5	38
4	Bioluminescent and structural features of native folded Gaussia luciferase. Journal of Photochemistry and Photobiology B: Biology, 2018, 183, 309-317.	3.8	20
5	Tyr72 and Tyr80 are Involved in the Formation of an Active Site of a Luciferase of Copepod Metridia longa. Photochemistry and Photobiology, 2017, 93, 503-510.	2.5	8
6	The novel extremely psychrophilic luciferase from Metridia longa : Properties of a high-purity protein produced in insect cells. Biochemical and Biophysical Research Communications, 2017, 483, 772-778.	2.1	14
7	The disulfide-rich Metridia luciferase refolded from E. coli inclusion bodies reveals the properties of a native folded enzyme produced in insect cells. Journal of Photochemistry and Photobiology B: Biology, 2017, 175, 51-57.	3.8	7
8	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
9	The smallest natural high-active luciferase: Cloning and characterization of novel 16.5-kDa luciferase from copepod Metridia longa. Biochemical and Biophysical Research Communications, 2015, 457, 77-82.	2.1	30
10	Coelenterazine-dependent luciferases. Biochemistry (Moscow), 2015, 80, 714-732.	1.5	42
11	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
12	Crystal structures of the F88Y obelin mutant before and after bioluminescence provide molecular insight into spectral tuning among hydromedusan photoproteins. FEBS Journal, 2014, 281, 1432-1445.	4.7	26
13	Characterization of hydromedusan Ca2+-regulated photoproteins as a tool for measurement of Ca2+concentration. Analytical and Bioanalytical Chemistry, 2014, 406, 5715-5726.	3.7	24
14	Highly active BRET-reporter based on yellow mutant of Renilla muelleri luciferase. Doklady Biochemistry and Biophysics, 2013, 450, 147-150.	0.9	1
15	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
16	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
17	High-active truncated luciferase of copepod Metridia longa. Biochemical and Biophysical Research Communications, 2012, 417, 98-103.	2.1	22
18	The lightâ€sensitive photoprotein berovin from the bioluminescent ctenophore Beroeâ€ƒabyssicola: a novel type of Ca²⁺â€regulated photoprotein. FEBS Journal, 2012, 279, 856-870.	4.7	43

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19	Ca2+-triggered coelenterazine-binding protein from Renilla as an enzyme-dependent label for binding assay. Analytical and Bioanalytical Chemistry, 2011, 401, 2573-2579.	3.7	6
20	Green-fluorescent protein from the bioluminescent jellyfish Clytia gregaria: cDNA cloning, expression, and characterization of novel recombinant protein. Photochemical and Photobiological Sciences, 2010, 9, 757-765.	2.9	39
21	Coelenterazine-v ligated to Ca2+-triggered coelenterazine-binding protein is a stable and efficient substrate of the red-shifted mutant of Renilla muelleri luciferase. Analytical and Bioanalytical Chemistry, 2010, 398, 1809-1817.	3.7	31
22	NMR-derived Topology of a GFP-photoprotein Energy Transfer Complex*. Journal of Biological Chemistry, 2010, 285, 40891-40900.	3.4	47
23	The intrinsic fluorescence of apoâ€obelin and apoâ€aequorin and use of its quenching to characterize coelenterazine binding. FEBS Letters, 2009, 583, 1939-1944.	2.8	28
24	Picosecond Fluorescence Relaxation Spectroscopy of the Calcium-Discharged Photoproteins Aequorin and Obelin. Biochemistry, 2009, 48, 10486-10491.	2.5	28
25	Violet and greenish photoprotein obelin mutants for reporter applications in dual-color assay. Analytical and Bioanalytical Chemistry, 2008, 391, 2891-2896.	3.7	29
26	Recombinant Metridia luciferase isoforms: expression, refolding and applicability for in vitro assay. Photochemical and Photobiological Sciences, 2008, 7, 1025-1031.	2.9	22
27	Coelenterazine-binding protein of Renilla muelleri: cDNA cloning, overexpression, and characterization as a substrate of luciferase. Photochemical and Photobiological Sciences, 2008, 7, 189-196.	2.9	41
28	Expression, purification and characterization of the secreted luciferase of the copepod Metridia longa from Sf9 insect cells. Protein Expression and Purification, 2008, 61, 142-148.	1.3	30
29	Crystal structure of obelin after Ca2+-triggered bioluminescence suggests neutral coelenteramide as the primary excited state. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 2570-2575.	7.1	84
30	All three Ca2+-binding loops of photoproteins bind calcium ions: The crystal structures of calcium-loaded apo-aequorin and apo-obelin. Protein Science, 2005, 14, 663-675.	7.6	85
31	Interchange of aequorin and obelin bioluminescence color is determined by substitution of one active site residue of each photoprotein. FEBS Letters, 2005, 579, 1008-1014.	2.8	67
32	Crystal Structure of a Ca2+-discharged Photoprotein. Journal of Biological Chemistry, 2004, 279, 33647-33652.	3.4	51
33	Cloning and Expression of cDNA for a Luciferase from the Marine Copepod Metridia longa. Journal of Biological Chemistry, 2004, 279, 3212-3217.	3.4	131
34	Preparation and X-ray crystallographic analysis of the Ca2+-discharged photoprotein obelin. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 512-514.	2.5	7
35	Violet Bioluminescence and Fast Kinetics from W92F Obelin:Â Structure-Based Proposals for the Bioluminescence Triggering and the Identification of the Emitting Speciesâ€. Biochemistry, 2003, 42, 6013-6024.	2.5	57
36	Spectral tuning of obelin bioluminescence by mutations of Trp92. FEBS Letters, 2003, 554, 184-188.	2.8	36

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37	Obelin from the Bioluminescent Marine HydroidObelia geniculata:Â Cloning, Expression, and Comparison of Some Properties with Those of Other Ca2+-Regulated Photoproteinsâ€. Biochemistry, 2002, 41, 2227-2236.	2.5	110
38	Structural basis for the emission of violet bioluminescence from a W92F obelin mutant. FEBS Letters, 2001, 506, 281-285.	2.8	44
39	PROTEIN CONFORMATIONAL CHANGES IN OBELIN SHOWN BY ¹⁵N-HSQC NUCLEAR MAGNETIC RESONANCE. , 2001, , .		6
40	OBELIN HYPEREXPRESSION IN E. coli, PURIFICATION AND CHARACTERIZATION. , 2001, , .		17
41	Obelin mRNA - A New Tool for Studies of Translation in Cell-Free Systems. Analytical Biochemistry, 1995, 231, 34-39.	2.4	12
42	Mn2+-Activated Luminescence of the Photoprotein Obelin. Archives of Biochemistry and Biophysics, 1995, 316, 92-99.	3.0	5
43	Insertion of short hepatitis virus A amino acid sequences into poliovirus antigenic determinants results in viable progeny. FEBS Letters, 1989, 257, 354-356.	2.8	4