

Svetlana V Markova

List of Publications by Year in descending order

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1,396
citations

257450

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44
docs citations

44
times ranked

577
citing authors

#	ARTICLE	IF	CITATIONS
1	Cloning and Expression of cDNA for a Luciferase from the Marine Copepod <i>Metridia longa</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 3212-3217.	3.4	131
2	Obelin from the Bioluminescent Marine Hydroid <i>Obelia geniculata</i> : Cloning, Expression, and Comparison of Some Properties with Those of Other Ca ²⁺ -Regulated Photoproteins. <i>Biochemistry</i> , 2002, 41, 2227-2236.	2.5	110
3	All three Ca ²⁺ -binding loops of photoproteins bind calcium ions: The crystal structures of calcium-loaded apo-aequorin and apo-obelin. <i>Protein Science</i> , 2005, 14, 663-675.	7.6	85
4	Crystal structure of obelin after Ca ²⁺ -triggered bioluminescence suggests neutral coelenteramide as the primary excited state. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 2570-2575.	7.1	84
5	Interchange of aequorin and obelin bioluminescence color is determined by substitution of one active site residue of each photoprotein. <i>FEBS Letters</i> , 2005, 579, 1008-1014.	2.8	67
6	Violet Bioluminescence and Fast Kinetics from W92F Obelin: Structure-Based Proposals for the Bioluminescence Triggering and the Identification of the Emitting Species. <i>Biochemistry</i> , 2003, 42, 6013-6024.	2.5	57
7	Crystal Structure of a Ca ²⁺ -discharged Photoprotein. <i>Journal of Biological Chemistry</i> , 2004, 279, 33647-33652.	3.4	51
8	NMR-derived Topology of a GFP-photoprotein Energy Transfer Complex*. <i>Journal of Biological Chemistry</i> , 2010, 285, 40891-40900.	3.4	47
9	Structural basis for the emission of violet bioluminescence from a W92F obelin mutant. <i>FEBS Letters</i> , 2001, 506, 281-285.	2.8	44
10	The light-sensitive photoprotein berovin from the bioluminescent ctenophore <i>Beroë abyssicola</i> : a novel type of Ca ²⁺ -regulated photoprotein. <i>FEBS Journal</i> , 2012, 279, 856-870.	4.7	43
11	Coelenterazine-dependent luciferases. <i>Biochemistry (Moscow)</i> , 2015, 80, 714-732.	1.5	42
12	Coelenterazine-binding protein of <i>Renilla muelleri</i> : cDNA cloning, overexpression, and characterization as a substrate of luciferase. <i>Photochemical and Photobiological Sciences</i> , 2008, 7, 189-196.	2.9	41
13	Green-fluorescent protein from the bioluminescent jellyfish <i>Clytia gregaria</i> : cDNA cloning, expression, and characterization of novel recombinant protein. <i>Photochemical and Photobiological Sciences</i> , 2010, 9, 757-765.	2.9	39
14	Shining Light on the Secreted Luciferases of Marine Copepods: Current Knowledge and Applications. <i>Photochemistry and Photobiology</i> , 2019, 95, 705-721.	2.5	38
15	Spectral tuning of obelin bioluminescence by mutations of Trp92. <i>FEBS Letters</i> , 2003, 554, 184-188.	2.8	36
16	Coelenterazine-v ligated to Ca ²⁺ -triggered coelenterazine-binding protein is a stable and efficient substrate of the red-shifted mutant of <i>Renilla muelleri</i> luciferase. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 1809-1817.	3.7	31
17	Expression, purification and characterization of the secreted luciferase of the copepod <i>Metridia longa</i> from Sf9 insect cells. <i>Protein Expression and Purification</i> , 2008, 61, 142-148.	1.3	30
18	Bioluminescent and spectroscopic properties of His-Trp-Tyr triad mutants of obelin and aequorin. <i>Photochemical and Photobiological Sciences</i> , 2013, 12, 1016-1024.	2.9	30

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19	The smallest natural high-active luciferase: Cloning and characterization of novel 16.5-kDa luciferase from copepod <i>Metridia longa</i> . <i>Biochemical and Biophysical Research Communications</i> , 2015, 457, 77-82.	2.1	30
20	Violet and greenish photoprotein obelin mutants for reporter applications in dual-color assay. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 2891-2896.	3.7	29
21	The intrinsic fluorescence of apo-obelin and apo-aequorin and use of its quenching to characterize coelenterazine binding. <i>FEBS Letters</i> , 2009, 583, 1939-1944.	2.8	28
22	Picosecond Fluorescence Relaxation Spectroscopy of the Calcium-Discharged Photoproteins Aequorin and Obelin. <i>Biochemistry</i> , 2009, 48, 10486-10491.	2.5	28
23	Role of key residues of obelin in coelenterazine binding and conversion into 2-hydroperoxy adduct. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2013, 127, 133-139.	3.8	26
24	Crystal structures of the F88Y obelin mutant before and after bioluminescence provide molecular insight into spectral tuning among hydromedusan photoproteins. <i>FEBS Journal</i> , 2014, 281, 1432-1445.	4.7	26
25	Characterization of hydromedusan Ca ²⁺ -regulated photoproteins as a tool for measurement of Ca ²⁺ concentration. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 5715-5726.	3.7	24
26	Structures of the Ca ²⁺ -regulated photoprotein obelin Y138F mutant before and after bioluminescence support the catalytic function of a water molecule in the reaction. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 720-732.	2.5	23
27	Recombinant <i>Metridia</i> luciferase isoforms: expression, refolding and applicability for in vitro assay. <i>Photochemical and Photobiological Sciences</i> , 2008, 7, 1025-1031.	2.9	22
28	High-active truncated luciferase of copepod <i>Metridia longa</i> . <i>Biochemical and Biophysical Research Communications</i> , 2012, 417, 98-103.	2.1	22
29	Bioluminescent and structural features of native folded <i>Gaussia</i> luciferase. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 183, 309-317.	3.8	20
30	Mitrocomin from the jellyfish <i>Mitrocoma cellularia</i> with deleted C-terminal tyrosine reveals a higher bioluminescence activity compared to wild type photoprotein. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 162, 286-297.	3.8	18
31	OBELIN HYPEREXPRESSION IN <i>E. coli</i> , PURIFICATION AND CHARACTERIZATION. , 2001, , .		17
32	The novel extremely psychrophilic luciferase from <i>Metridia longa</i> : Properties of a high-purity protein produced in insect cells. <i>Biochemical and Biophysical Research Communications</i> , 2017, 483, 772-778.	2.1	14
33	Obelin mRNA - A New Tool for Studies of Translation in Cell-Free Systems. <i>Analytical Biochemistry</i> , 1995, 231, 34-39.	2.4	12
34	Tyr72 and Tyr80 are Involved in the Formation of an Active Site of a Luciferase of Copepod <i>Metridia longa</i> . <i>Photochemistry and Photobiology</i> , 2017, 93, 503-510.	2.5	8
35	Preparation and X-ray crystallographic analysis of the Ca ²⁺ -discharged photoprotein obelin. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 512-514.	2.5	7
36	The disulfide-rich <i>Metridia</i> luciferase refolded from <i>E. coli</i> inclusion bodies reveals the properties of a native folded enzyme produced in insect cells. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 175, 51-57.	3.8	7

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37	Ca ²⁺ -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
38	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
39	PROTEIN CONFORMATIONAL CHANGES IN OBELIN SHOWN BY ¹⁵ N-HSQC NUCLEAR MAGNETIC RESONANCE. , 2001, , .		6
40	Mn ²⁺ -Activated Luminescence of the Photoprotein Obelin. Archives of Biochemistry and Biophysics, 1995, 316, 92-99.	3.0	5
41	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
42	Highly active BRET-reporter based on yellow mutant of Renilla muelleri luciferase. Doklady Biochemistry and Biophysics, 2013, 450, 147-150.	0.9	1
43	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