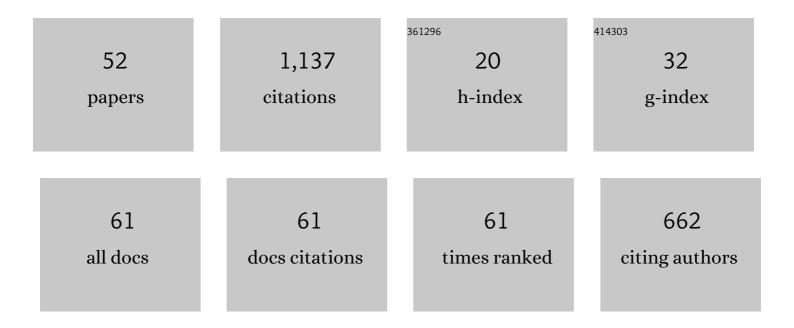
Ludmila A Frank

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Cloning and Expression of cDNA for a Luciferase from the Marine Copepod Metridia longa. Journal of Biological Chemistry, 2004, 279, 3212-3217.	1.6	131
2	Recombinant obelin: Cloning and expression of cDNA, purification, and characterization as a calcium indicator. Methods in Enzymology, 2000, 305, 223-249.	0.4	85
3	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.	1.3	67
4	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.	1.2	57
5	Calcium-regulated photoproteins of marine coelenterates. Molecular Biology, 2006, 40, 355-367.	0.4	57
6	Highly-sensitive graphene field effect transistor biosensor using PNA and DNA probes for RNA detection. Applied Surface Science, 2020, 527, 146839.	3.1	45
7	The lightâ€sensitive photoprotein berovin from the bioluminescent ctenophore <i>Beroe abyssicola</i> : a novel type of Ca ²⁺ â€regulated photoprotein. FEBS Journal, 2012, 279, 856-870.	2.2	43
8	Bioluminescent immunoassay of thyrotropin and thyroxine using obelin as a label. Analytical Biochemistry, 2004, 325, 240-246.	1.1	42
9	Coelenterazine-binding protein of Renilla muelleri: cDNA cloning, overexpression, and characterization as a substrate of luciferase. Photochemical and Photobiological Sciences, 2008, 7, 189-196.	1.6	41
10	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.	1.6	39
11	Spectral tuning of obelin bioluminescence by mutations of Trp92. FEBS Letters, 2003, 554, 184-188.	1.3	36
12	Crystal structure of coelenterazine-binding protein from Renilla muelleri at 1.7 Ã: Why it is not a calcium-regulated photoprotein. Photochemical and Photobiological Sciences, 2008, 7, 442.	1.6	31
13	Ca2+-Regulated Photoproteins: Effective Immunoassay Reporters. Sensors, 2010, 10, 11287-11300.	2.1	30
14	Bioluminescent and spectroscopic properties of His—Trp—Tyr triad mutants of obelin and aequorin. Photochemical and Photobiological Sciences, 2013, 12, 1016-1024.	1.6	30
15	Analysis of interactions between proteins and small-molecule drugs by a biosensor based on a graphene field-effect transistor. Sensors and Actuators B: Chemical, 2021, 326, 128991.	4.0	30
16	Violet and greenish photoprotein obelin mutants for reporter applications in dual-color assay. Analytical and Bioanalytical Chemistry, 2008, 391, 2891-2896.	1.9	29
17	Use of proZZ-obelin Fusion Protein in Bioluminescent Immunoassay. Biochemical and Biophysical Research Communications, 1996, 219, 475-479.	1.0	28
18	RNA Aptamer against Autoantibodies Associated with Multiple Sclerosis and Bioluminescent Detection Probe on Its Basis. Analytical Chemistry, 2014, 86, 2590-2594.	3.2	25

Ludmila A Frank

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19	Coelenterazine-Dependent Luciferases as a Powerful Analytical Tool for Research and Biomedical Applications. International Journal of Molecular Sciences, 2020, 21, 7465.	1.8	24
20	Recombinant Metridia luciferase isoforms: expression, refolding and applicability for in vitro assay. Photochemical and Photobiological Sciences, 2008, 7, 1025-1031.	1.6	22
21	Bioluminescent aptamer-based sandwich-type assay of anti-myelin basic protein autoantibodies associated with multiple sclerosis. Analytica Chimica Acta, 2019, 1064, 112-118.	2.6	18
22	Polysaccharide-coated iron oxide nanoparticles: Synthesis, properties, surface modification. Materials Letters, 2021, 284, 128920.	1.3	17
23	Ni ²⁺ -zeolite/ferrosphere and Ni ²⁺ -silica/ferrosphere beads for magnetic affinity separation of histidine-tagged proteins. Dalton Transactions, 2016, 45, 1582-1592.	1.6	16
24	Simultaneous Bioluminescent Immunoassay of Serum Total and IgG-Bound Prolactins. Analytical Chemistry, 2012, 84, 3119-3124.	3.2	15
25	Hydrogen-bond networks between the C-terminus and Arg from the first α-helix stabilize photoprotein molecules. Photochemical and Photobiological Sciences, 2014, 13, 541-547.	1.6	15
26	Development and characterization of novel 2′-F-RNA aptamers specific to human total and glycated hemoglobins. Analytical Biochemistry, 2019, 570, 43-50.	1.1	14
27	The Ca ²⁺ â€Regulated Photoprotein Obelin as a Tool for SELEX Monitoring and DNA Aptamer Affinity Evaluation. Photochemistry and Photobiology, 2020, 96, 1041-1046.	1.3	13
28	Application of Enzyme Bioluminescence for Medical Diagnostics. Advances in Biochemical Engineering/Biotechnology, 2014, 144, 175-197.	0.6	11
29	Bioluminescent detection probe for tick-borne encephalitis virus immunoassay. Analytical and Bioanalytical Chemistry, 2015, 407, 5417-5423.	1.9	11
30	Bioluminescent signal system: bioluminescence immunoassay of pathogenic organisms. Luminescence, 2007, 22, 215-220.	1.5	10
31	Obelin mutants as reporters in bioluminescent dual-analyte binding assay. Analytical Methods, 2013, 5, 636-640.	1.3	9
32	Hybrid Minimal Core Streptavidin–Obelin as a Versatile Reporter for Bioluminescenceâ€based Bioassay. Photochemistry and Photobiology, 2017, 93, 548-552.	1.3	9
33	Mutants of Ca ²⁺ â€regulated Photoprotein Obelin for Siteâ€specific Conjugation. Photochemistry and Photobiology, 2017, 93, 553-557.	1.3	8
34	Bioluminescent aptamer-based solid-phase microassay to detect lung tumor cells in plasma. Talanta, 2019, 199, 674-678.	2.9	7
35	Ca2+-triggered coelenterazine-binding protein from Renilla as an enzyme-dependent label for binding assay. Analytical and Bioanalytical Chemistry, 2011, 401, 2573-2579.	1.9	6
36	A bioluminescent assay for detecting melanocortin-1 receptor (MC1R) gene polymorphisms R160W, R151C, and D294H. Molecular Biology, 2015, 49, 852-857.	0.4	6

LUDMILA A FRANK

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37	Simultaneous Genotyping of Four Single Nucleotide Polymorphisms Associated with Risk Factors of Hemostasis Disorders. Combinatorial Chemistry and High Throughput Screening, 2015, 18, 930-936.	0.6	6
38	Affine magnetic sorbents supported on coal ash microspheres for recombinant protein isolation. Applied Biochemistry and Microbiology, 2009, 45, 215-220.	0.3	5
39	Reporter-recruiting bifunctional aptasensor for bioluminescent analytical assays. RSC Advances, 2020, 10, 32393-32399.	1.7	4
40	Starch-Coated Magnetic Iron Oxide Nanoparticles for Affinity Purification of Recombinant Proteins. International Journal of Molecular Sciences, 2022, 23, 5410.	1.8	4
41	Creation of artificial luciferases to expand their analytical potential. Combinatorial Chemistry and High Throughput Screening, 2015, 18, 919-929.	0.6	3
42	Bioluminescent detection of tick-borne encephalitis virus in native ticks. Analytical Methods, 2017, 9, 2252-2255.	1.3	2
43	Bioluminescent SNP genotyping technique: Development and application for detection of melanocortin 1 receptor gene polymorphisms. Talanta, 2018, 189, 111-115.	2.9	2
44	The Ca2+-Regulated Photoprotein Obelin as a Target for the RNA Aptamer Selection. Russian Journal of Bioorganic Chemistry, 2018, 44, 296-301.	0.3	2
45	The Hybrid Protein ZZ–OL as an Analytical Tool for Biotechnology Research. Russian Journal of Bioorganic Chemistry, 2020, 46, 1004-1010.	0.3	2
46	THE MAIN FUNCTION OF HIS175, TRP179, AND TYR190 RESIDUES OF THE OBELIN BINDING SITE IS TO STABILIZE THE HYDROPEROXYCOELENTERAZINE INTERMEDIATE. , 2007, , .		1
47	Bioluminescent monitoring enables observation of intracellular events in real time without cell and tissue destruction. Biophysics (Russian Federation), 2017, 62, 503-507.	0.2	1
48	REFOLDING OF THE RECOMBINANT LUCIFERASES OF <i>METRIDIA LONGA</i> ., 2007, , .		0
49	Editorial (Thematic Issue: Recent Trends and Advancements in Bioassay Based on Bioluminescent) Tj ETQq1 1 0.7	84314 rgl 0.6	BT/Overloc
50	Genetically Modified Coelenterazine-Dependent Luciferases as Reporters for In Vitro Assay. Journal of Siberian Federal University - Biology, 2017, 10, 199-210.	0.2	0
51	A Test System for Tick-Borne Encephalitis Virus Detection Based on Bioluminescent Immunoassay. Journal of Siberian Federal University - Humanities and Social Sciences, 0, , 1-11.	0.2	0
52	N-extended photoprotein obelin to competitively detect small protein tumor markers. Biochemical and Biophysical Research Communications, 2022, 598, 69-73.	1.0	0