

Lada E Petrovskaya

List of Publications by Year in descending order

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35
papers

1,098
citations

516215

16
h-index

433756

31
g-index

35
all docs

35
docs citations

35
times ranked

1332
citing authors

#	ARTICLE	IF	CITATIONS
1	Proton transfer reactions in donor site mutants of ESR, a retinal protein from <i>Exiguobacterium sibiricum</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2022, 234, 112529.	1.7	2
2	Editorial for the Special Issue: "State-of-Art in Protein Engineering". <i>Biomolecules</i> , 2022, 12, 966.	1.8	0
3	His57 controls the efficiency of ESR, a light-driven proton pump from <i>Exiguobacterium sibiricum</i> at low and high pH. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2021, 1862, 148328.	0.5	11
4	Comparative Femtosecond Spectroscopy of Primary Photoreactions of <i>Exiguobacterium sibiricum</i> Rhodopsin and <i>Halobacterium salinarum</i> Bacteriorhodopsin. <i>Journal of Physical Chemistry B</i> , 2021, 125, 995-1008.	1.2	11
5	Structural and Biochemical Characterization of a Cold-Active PMGL3 Esterase with Unusual Oligomeric Structure. <i>Biomolecules</i> , 2021, 11, 57.	1.8	6
6	Engineering of Thermal Stability in a Cold-Active Oligo-1,6-Glucosidase from <i>Exiguobacterium sibiricum</i> with Unusual Amino Acid Content. <i>Biomolecules</i> , 2021, 11, 1229.	1.8	8
7	Increased Synthesis of a Magnesium Transporter MgtA During Recombinant Autotransporter Expression in <i>Escherichia coli</i> . <i>Applied Biochemistry and Biotechnology</i> , 2021, 193, 3672-3703.	1.4	2
8	Effect of Cysteine Residue Substitution in the GCSAG Motif of the PMGL2 Esterase Active Site on the Enzyme Properties. <i>Biochemistry (Moscow)</i> , 2020, 85, 709-716.	0.7	4
9	Crystal structure of PMGL2 esterase from the hormone-sensitive lipase family with GCSAG motif around the catalytic serine. <i>PLoS ONE</i> , 2020, 15, e0226838.	1.1	10
10	Thermal Inactivation of a Cold-Active Esterase PMGL3 Isolated from the Permafrost Metagenomic Library. <i>Biomolecules</i> , 2019, 9, 880.	1.8	12
11	Elimination of proton donor strongly affects directionality and efficiency of proton transport in ESR, a light-driven proton pump from <i>Exiguobacterium sibiricum</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2019, 1860, 1-11.	0.5	16
12	Fusion with the cold-active esterase facilitates autotransporter-based surface display of the 10th human fibronectin domain in <i>Escherichia coli</i> . <i>Extremophiles</i> , 2018, 22, 141-150.	0.9	6
13	Formation of an Efficient Energy Transfer Complex between Quantum Dots and <i>Exiguobacterium sibiricum</i> Retinal Protein via the Histidine-Cysteine Anchor. <i>Russian Journal of Bioorganic Chemistry</i> , 2018, 44, 687-694.	0.3	0
14	The effect of the chromophoric group modification on the optical properties of retinal proteins. <i>Mendeleev Communications</i> , 2018, 28, 406-408.	0.6	2
15	Earth's perennially frozen environments as a model of cryogenic planet ecosystems. <i>Permafrost and Periglacial Processes</i> , 2018, 29, 246-256.	1.5	14
16	New member of the hormone-sensitive lipase family from the permafrost microbial community. <i>Bioengineered</i> , 2017, 8, 420-423.	1.4	13
17	Metagenomic analyses of the late Pleistocene permafrost "additional tools for reconstruction of environmental conditions. <i>Biogeosciences</i> , 2016, 13, 2207-2219.	1.3	59
18	Electrogenic steps of light-driven proton transport in ESR, a retinal protein from <i>Exiguobacterium sibiricum</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, 1741-1750.	0.5	19

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19	Expression and characterization of a new esterase with GCSAG motif from a permafrost metagenomic library. <i>FEMS Microbiology Ecology</i> , 2016, 92, fiw046.	1.3	39
20	Two Metagenomes from Late Pleistocene Northeast Siberian Permafrost. <i>Genome Announcements</i> , 2015, 3, .	0.8	20
21	Cell surface display of cold-active esterase EstPc with the use of a new autotransporter from <i>Psychrobacter cryohalolentis</i> K5T. <i>Extremophiles</i> , 2015, 19, 161-170.	0.9	16
22	Breaking the Carboxyl Rule. <i>Journal of Biological Chemistry</i> , 2013, 288, 21254-21265.	1.6	36
23	Expression and chaperone-assisted refolding of a new cold-active lipase from <i>Psychrobacter cryohalolentis</i> K5T. <i>Protein Expression and Purification</i> , 2013, 91, 96-103.	0.6	22
24	Characterization of a cold-active lipase from <i>Psychrobacter cryohalolentis</i> K5T and its deletion mutants. <i>Biochemistry (Moscow)</i> , 2013, 78, 385-394.	0.7	24
25	Lipidâ€protein nanodiscs promote in vitro folding of transmembrane domains of multi-helical and multimeric membrane proteins. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 776-784.	1.4	42
26	Photocycle of <i>Exiguobacterium sibiricum</i> Rhodopsin Characterized by Low-Temperature Trapping in the IR and Time-Resolved Studies in the Visible. <i>Journal of Physical Chemistry B</i> , 2013, 117, 7235-7253.	1.2	26
27	Structural insights into the proton pumping by unusual proteorhodopsin from nonmarine bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 12631-12636.	3.3	83
28	Lipidâ€protein nanodiscs for cell-free production of integral membrane proteins in a soluble and folded state: Comparison with detergent micelles, bicelles and liposomes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 349-358.	1.4	95
29	Cloning, purification, and characterization of a cold-adapted esterase produced by <i>Psychrobacter cryohalolentis</i> K5 ^T from Siberian cryopeg. <i>FEMS Microbiology Ecology</i> , 2012, 82, 367-375.	1.3	61
30	Predicted bacteriorhodopsin from <i>Exiguobacterium sibiricum</i> is a functional proton pump. <i>FEBS Letters</i> , 2010, 584, 4193-4196.	1.3	62
31	<i>Methanobacterium veterum</i> sp. nov., from ancient Siberian permafrost. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2010, 60, 455-459.	0.8	60
32	Biogeochemistry of methane and methanogenic archaea in permafrost. <i>FEMS Microbiology Ecology</i> , 2007, 61, 1-15.	1.3	118
33	Biodiversity of cryopegs in permafrost. <i>FEMS Microbiology Ecology</i> , 2005, 53, 117-128.	1.3	186
34	Chapter 8. Yeasts Isolated from Ancient Permafrost. , 2005, , 118-126.		12
35	Overview of the â€Photoreceptionâ€session at the 9th Congress of the Russian Photobiological Society: understanding structure and function of photoreceptors. <i>Biophysical Reviews</i> , 0, , .	1.5	1