Aleksandra S Tsarkova

List of Publications by Year
in descending order

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35 papers	919 citations	759055 12 h-index	477173 29 g-index
42 all docs	42 docs citations	42 times ranked	790 citing authors

#	Article	IF	Citations
1	1001 lights: luciferins, luciferases, their mechanisms of action and applications in chemical analysis, biology and medicine. Chemical Society Reviews, 2016, 45, 6048-6077.	18.7	238
2	Genetically encodable bioluminescent system from fungi. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12728-12732.	3.3	130
3	The Chemical Basis of Fungal Bioluminescence. Angewandte Chemie - International Edition, 2015, 54, 8124-8128.	7.2	89
4	Plants with genetically encoded autoluminescence. Nature Biotechnology, 2020, 38, 944-946.	9.4	89
5	Mechanism and color modulation of fungal bioluminescence. Science Advances, 2017, 3, e1602847.	4.7	74
6	A Novel Type of Luciferin from the Siberian Luminous Earthworm <i>Fridericia heliota</i>: Structure Elucidation by Spectral Studies and Total Synthesis. Angewandte Chemie - International Edition, 2014, 53, 5566-5568.	7.2	41
7	Bioluminescence chemistry of fireworm <i>Odontosyllis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 18911-18916.	3.3	33
8	Novel Mechanism of Bioluminescence: Oxidative Decarboxylation of a Moiety Adjacent to the Light Emitter of <i>Fridericia</i> Luciferin. Angewandte Chemie - International Edition, 2015, 54, 7065-7067.	7.2	31
9	Selected Least Studied but not Forgotten Bioluminescent Systems. Photochemistry and Photobiology, 2017, 93, 405-415.	1.3	30
10	A Tale Of Two Luciferins: Fungal and Earthworm New Bioluminescent Systems. Accounts of Chemical Research, 2016, 49, 2372-2380.	7.6	29
11	Progress in the Study of Bioluminescent Earthworms. Photochemistry and Photobiology, 2017, 93, 416-428.	1.3	17
12	CompX, a luciferin-related tyrosine derivative from the bioluminescent earthworm Fridericia heliota. Structure elucidation and total synthesis. Tetrahedron Letters, 2014, 55, 460-462.	0.7	13
13	Conformationally locked chromophores of CFP and Sirius protein. Tetrahedron Letters, 2016, 57, 3043-3045.	0.7	12
14	The Chemical Basis of Fungal Bioluminescence. Angewandte Chemie, 2015, 127, 8242-8246.	1.6	9
15	Novel Peptide Chemistry in Terrestrial Animals: Natural Luciferin Analogues from the Bioluminescent Earthworm <i>Fridericia heliota</i>. Chemistry - A European Journal, 2015, 21, 3942-3947.	1.7	9
16	Struggle for photostability: Bleaching mechanisms of fluorescent proteins. Russian Journal of Bioorganic Chemistry, 2017, 43, 625-633.	0.3	9
17	Chaetopterus variopedatus Bioluminescence: A Review of Light Emission within a Species Complex. Photochemistry and Photobiology, 2020, 96, 768-778.	1.3	9
18	Nambiscalarane, a novel sesterterpenoid comprising a furan ring, and other secondary metabolites from bioluminescent fungus Neonothopanus nambi. Mendeleev Communications, 2016, 26, 191-192.	0.6	8

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19	A Novel Type of Luciferin from the Siberian Luminous Earthworm <i>Fridericia heliota</i>: Structure Elucidation by Spectral Studies and Total Synthesis. Angewandte Chemie, 2014, 126, 5672-5674.	1.6	7
20	Luciferinâ€"Luciferase System of Marine Polychaete Chaetopterus variopedatus. Doklady Biochemistry and Biophysics, 2019, 486, 209-212.	0.3	6
21	Unexpected Coelenterazine Degradation Products of <i>Beroe abyssicola</i> Photoprotein Photoinactivation. Organic Letters, 2021, 23, 6846-6849.	2.4	6
22	Luciferins Under Construction: A Review of Known Biosynthetic Pathways. Frontiers in Ecology and Evolution, 2021, 9, .	1.1	6
23	Total synthesis of AsLn2 â€" a luciferin analogue from the Siberian bioluminescent earthworm Fridericia heliota. Mendeleev Communications, 2015, 25, 99-100.	0.6	4
24	Novel Mechanism of Bioluminescence: Oxidative Decarboxylation of a Moiety Adjacent to the Light Emitter of <i>Fridericia</i> Luciferin. Angewandte Chemie, 2015, 127, 7171-7173.	1.6	3
25	Structure of fungal oxyluciferin, the product of the bioluminescence reaction. Doklady Biochemistry and Biophysics, 2017, 477, 360-363.	0.3	2
26	Optimization of Fungal Luciferin Synthesis. Russian Journal of Bioorganic Chemistry, 2019, 45, 183-185.	0.3	2
27	6,7-Dialcoxy-Benzothiophene Derivatives as the Basis for Synthesis of Fluorescent Sensors for Reactive Oxygen Species. Russian Journal of Bioorganic Chemistry, 2020, 46, 1289-1292.	0.3	2
28	Isolation and Purification of Fungal Luciferase from Neonothopanus nimbi. Doklady Biochemistry and Biophysics, 2018, 480, 177-180.	0.3	1
29	Novel Benzothiophene-Based Fluorescent Dye Exhibiting a Large Stokes Shift. Synlett, 0, , .	1.0	1
30	Heterologous Metabolic Pathways: Strategies for Optimal Expression in Eukaryotic Hosts. Acta Naturae, 2020, 12, 28-39.	1.7	1
31	Titelbild: The Chemical Basis of Fungal Bioluminescence (Angew. Chem. 28/2015). Angewandte Chemie, 2015, 127, 8113-8113.	1.6	0
32	Frontispiece: Novel Peptide Chemistry in Terrestrial Animals: Natural Luciferin Analogues from the Bioluminescent EarthwormFridericia heliota. Chemistry - A European Journal, 2015, 21, n/a-n/a.	1.7	0
33	Luminous Fungi. , 2019, , 301-348.		0
34	Annelida. , 2019, , 235-282.		0
35	The Fireflies and Luminous Insects. , 2019, , 1-31.		0