

Aleksandra S Tsarkova

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

919
citations

759233

12
h-index

477307

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. <i>Chemical Society Reviews</i> , 2016, 45, 6048-6077.	38.1	238
2	Genetically encodable bioluminescent system from fungi. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 12728-12732.	7.1	130
3	The Chemical Basis of Fungal Bioluminescence. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 8124-8128.	13.8	89
4	Plants with genetically encoded autoluminescence. <i>Nature Biotechnology</i> , 2020, 38, 944-946.	17.5	89
5	Mechanism and color modulation of fungal bioluminescence. <i>Science Advances</i> , 2017, 3, e1602847.	10.3	74
6	A Novel Type of Luciferin from the Siberian Luminous Earthworm <i>Fridericia heliota</i> : Structure Elucidation by Spectral Studies and Total Synthesis. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5566-5568.	13.8	41
7	Bioluminescence chemistry of fireworm <i>Odontosyllis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 18911-18916.	7.1	33
8	Novel Mechanism of Bioluminescence: Oxidative Decarboxylation of a Moiety Adjacent to the Light Emitter of <i>Fridericia</i> Luciferin. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7065-7067.	13.8	31
9	Selected Least Studied but not Forgotten Bioluminescent Systems. <i>Photochemistry and Photobiology</i> , 2017, 93, 405-415.	2.5	30
10	A Tale Of Two Luciferins: Fungal and Earthworm New Bioluminescent Systems. <i>Accounts of Chemical Research</i> , 2016, 49, 2372-2380.	15.6	29
11	Progress in the Study of Bioluminescent Earthworms. <i>Photochemistry and Photobiology</i> , 2017, 93, 416-428.	2.5	17
12	CompX, a luciferin-related tyrosine derivative from the bioluminescent earthworm <i>Fridericia heliota</i> . Structure elucidation and total synthesis. <i>Tetrahedron Letters</i> , 2014, 55, 460-462.	1.4	13
13	Conformationally locked chromophores of CFP and Sirius protein. <i>Tetrahedron Letters</i> , 2016, 57, 3043-3045.	1.4	12
14	The Chemical Basis of Fungal Bioluminescence. <i>Angewandte Chemie</i> , 2015, 127, 8242-8246.	2.0	9
15	Novel Peptide Chemistry in Terrestrial Animals: Natural Luciferin Analogues from the Bioluminescent Earthworm <i>Fridericia heliota</i> . <i>Chemistry - A European Journal</i> , 2015, 21, 3942-3947.	3.3	9
16	Struggle for photostability: Bleaching mechanisms of fluorescent proteins. <i>Russian Journal of Bioorganic Chemistry</i> , 2017, 43, 625-633.	1.0	9
17	<i>Chaetopterus variopedatus</i> Bioluminescence: A Review of Light Emission within a Species Complex. <i>Photochemistry and Photobiology</i> , 2020, 96, 768-778.	2.5	9
18	Nambiscalarane, a novel sesterterpenoid comprising a furan ring, and other secondary metabolites from bioluminescent fungus <i>Neonothopanus nambi</i> . <i>Mendeleev Communications</i> , 2016, 26, 191-192.	1.6	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. <i>Angewandte Chemie</i> , 2014, 126, 5672-5674.	2.0	7
20	Luciferin-Luciferase System of Marine Polychaete <i>Chaetopterus variopedatus</i> . <i>Doklady Biochemistry and Biophysics</i> , 2019, 486, 209-212.	0.9	6
21	Unexpected Coelenterazine Degradation Products of <i>Beroe abyssi</i> Photoprotein Photoinactivation. <i>Organic Letters</i> , 2021, 23, 6846-6849.	4.6	6
22	Luciferins Under Construction: A Review of Known Biosynthetic Pathways. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	2.2	6
23	Total synthesis of AsLn2 - a luciferin analogue from the Siberian bioluminescent earthworm <i>Fridericia heliota</i> . <i>Mendeleev Communications</i> , 2015, 25, 99-100.	1.6	4
24	Novel Mechanism of Bioluminescence: Oxidative Decarboxylation of a Moiety Adjacent to the Light Emitter of <i>Fridericia</i> Luciferin. <i>Angewandte Chemie</i> , 2015, 127, 7171-7173.	2.0	3
25	Structure of fungal oxyluciferin, the product of the bioluminescence reaction. <i>Doklady Biochemistry and Biophysics</i> , 2017, 477, 360-363.	0.9	2
26	Optimization of Fungal Luciferin Synthesis. <i>Russian Journal of Bioorganic Chemistry</i> , 2019, 45, 183-185.	1.0	2
27	6,7-Dialcoxy-Benzothiophene Derivatives as the Basis for Synthesis of Fluorescent Sensors for Reactive Oxygen Species. <i>Russian Journal of Bioorganic Chemistry</i> , 2020, 46, 1289-1292.	1.0	2
28	Isolation and Purification of Fungal Luciferase from <i>Neonothopanus nimbi</i> . <i>Doklady Biochemistry and Biophysics</i> , 2018, 480, 177-180.	0.9	1
29	Novel Benzothiophene-Based Fluorescent Dye Exhibiting a Large Stokes Shift. <i>Synlett</i> , 0, , .	1.8	1
30	Heterologous Metabolic Pathways: Strategies for Optimal Expression in Eukaryotic Hosts. <i>Acta Naturae</i> , 2020, 12, 28-39.	1.7	1
31	Titelbild: The Chemical Basis of Fungal Bioluminescence (<i>Angew. Chem.</i> 28/2015). <i>Angewandte Chemie</i> , 2015, 127, 8113-8113.	2.0	0
32	Frontispiece: Novel Peptide Chemistry in Terrestrial Animals: Natural Luciferin Analogues from the Bioluminescent Earthworm <i>Fridericia heliota</i> . <i>Chemistry - A European Journal</i> , 2015, 21, n/a-n/a.	3.3	0
33	Luminous Fungi. , 2019, , 301-348.		0
34	Annelida. , 2019, , 235-282.		0
35	The Fireflies and Luminous Insects. , 2019, , 1-31.		0