Aleksandra S Tsarkova

List of Publications by Citations

33 papers	609 citations	11 h-index	24 g-index
42 ext. papers	774 ext. citations	8.4 avg, IF	3.83 L-index

#	Paper	IF	Citations
33	1001 lights: luciferins, luciferases, their mechanisms of action and applications in chemical analysis, biology and medicine. *Chemical Society Reviews*, **2016**, 45, 6048-6077	58.5	172
32	Genetically encodable bioluminescent system from fungi. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 12728-12732	11.5	77
31	The Chemical Basis of Fungal Bioluminescence. *Angewandte Chemie - International Edition*, **2015**, 54, 8124-8128	16.4	66
30	Mechanism and color modulation of fungal bioluminescence. *Science Advances*, **2017**, 3, e1602847	14.3	56
29	Plants with genetically encoded autoluminescence. *Nature Biotechnology*, **2020**, 38, 944-946	44.5	41
28	A novel type of luciferin from the Siberian luminous earthworm Fridericia heliota: structure elucidation by spectral studies and total synthesis. *Angewandte Chemie - International Edition*, **2014**, 53, 5566-8	16.4	33
27	A Tale Of Two Luciferins: Fungal and Earthworm New Bioluminescent Systems. *Accounts of Chemical Research*, **2016**, 49, 2372-2380	24.3	22
26	Novel mechanism of bioluminescence: oxidative decarboxylation of a moiety adjacent to the light emitter of Fridericia luciferin. *Angewandte Chemie - International Edition*, **2015**, 54, 7065-7	16.4	21
25	Selected Least Studied but not Forgotten Bioluminescent Systems. *Photochemistry and Photobiology*, **2017**, 93, 405-415	3.6	20
24	Bioluminescence chemistry of fireworm. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 18911-18916	11.5	18
23	Progress in the Study of Bioluminescent Earthworms. *Photochemistry and Photobiology*, **2017**, 93, 416-428	3.6	11
22	CompX, a luciferin-related tyrosine derivative from the bioluminescent earthworm Fridericia heliota. Structure elucidation and total synthesis. *Tetrahedron Letters*, **2014**, 55, 460-462	2	11
21	Conformationally locked chromophores of CFP and Sirius protein. *Tetrahedron Letters*, **2016**, 57, 3043-3045	2	8
20	Struggle for photostability: Bleaching mechanisms of fluorescent proteins. *Russian Journal of Bioorganic Chemistry*, **2017**, 43, 625-633	1	8
19	The Chemical Basis of Fungal Bioluminescence. *Angewandte Chemie*, **2015**, 127, 8242-8246	3.6	7
18	Novel peptide chemistry in terrestrial animals: natural luciferin analogues from the bioluminescent earthworm Fridericia heliota. *Chemistry - A European Journal*, **2015**, 21, 3942-7	4.8	7
17	A Novel Type of Luciferin from the Siberian Luminous Earthworm Fridericia heliota: Structure Elucidation by Spectral Studies and Total Synthesis. *Angewandte Chemie*, **2014**, 126, 5672-5674	3.6	6

List of Publications

16	Total synthesis of AsLn2 – a luciferin analogue from the Siberian bioluminescent earthworm Fridericia heliota. *Mendeleev Communications*, **2015**, 25, 99-100	1.9	4
15	Nambiscalarane, a novel sesterterpenoid comprising a furan ring, and other secondary metabolites from bioluminescent fungus Neonothopanus nambi. *Mendeleev Communications*, **2016**, 26, 191-192	1.9	4
14	Luciferin-Luciferase System of Marine Polychaete Chaetopterus variopedatus. *Doklady Biochemistry and Biophysics*, **2019**, 486, 209-212	0.8	3
13	Plants with self-sustained luminescence		3
12	Optimization of Fungal Luciferin Synthesis. *Russian Journal of Bioorganic Chemistry*, **2019**, 45, 183-185	1	2
11	Chaetopterus variopedatus Bioluminescence: A Review of Light Emission within a Species Complex. *Photochemistry and Photobiology*, **2020**, 96, 768-778	3.6	2
10	Novel Mechanism of Bioluminescence: Oxidative Decarboxylation of a Moiety Adjacent to the Light Emitter of Fridericia Luciferin. *Angewandte Chemie*, **2015**, 127, 7171-7173	3.6	2
9	Isolation and Purification of Fungal Luciferase from Neonothopanus nimbi. *Doklady Biochemistry and Biophysics*, **2018**, 480, 177-180	0.8	1
8	Heterologous Metabolic Pathways: Strategies for Optimal Expression in Eukaryotic Hosts. *Acta Naturae*, **2020**, 12, 28-39	2.1	1
7	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	1	0
6	Unexpected Coelenterazine Degradation Products of Photoprotein Photoinactivation. *Organic Letters*, **2021**, 23, 6846-6849	6.2	0
5	Structure of fungal oxyluciferin, the product of the bioluminescence reaction. *Doklady Biochemistry and Biophysics*, **2017**, 477, 360-363	0.8	
4	Titelbild: The Chemical Basis of Fungal Bioluminescence (Angew. Chem. 28/2015). *Angewandte Chemie*, **2015**, 127, 8113-8113	3.6	
3	Luminous Fungi **2019**, 301-348		
2	Annelida **2019**, 235-282		
1	The Fireflies and Luminous Insects **2019**, 1-31		