

Ilia V Yampolsky

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

60
papers

1,823
citations

24
h-index

41
g-index

80
ext. papers

2,158
ext. citations

6.8
avg, IF

4.6
L-index

#	Paper	IF	Citations
60	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	58.5	172
59	Green fluorescent proteins are light-induced electron donors. <i>Nature Chemical Biology</i> , 2009 , 5, 459-61	11.7	156
58	Conformationally locked chromophores as models of excited-state proton transfer in fluorescent proteins. <i>Journal of the American Chemical Society</i> , 2012 , 134, 6025-32	16.4	136
57	Fluorescence imaging using synthetic GFP chromophores. <i>Current Opinion in Chemical Biology</i> , 2015 , 27, 64-74	9.7	96
56	Structural basis for the fast maturation of Arthropoda green fluorescent protein. <i>EMBO Reports</i> , 2006 , 7, 1006-12	6.5	84
55	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	11.5	77
54	The Chemical Basis of Fungal Bioluminescence. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 8124-8128	16.4	66
53	Synthesis and properties of the chromophore of the asFP595 chromoprotein from <i>Anemonia sulcata</i> . <i>Biochemistry</i> , 2005 , 44, 5788-93	3.2	63
52	Fucoxanthin production by heterokont microalgae. <i>Algal Research</i> , 2017 , 24, 387-393	5	60
51	The first mutant of the <i>Aequorea victoria</i> green fluorescent protein that forms a red chromophore. <i>Biochemistry</i> , 2008 , 47, 4666-73	3.2	58
50	Mechanism and color modulation of fungal bioluminescence. <i>Science Advances</i> , 2017 , 3, e1602847	14.3	56
49	Red-shifted fluorescent aminated derivatives of a conformationally locked GFP chromophore. <i>Chemistry - A European Journal</i> , 2014 , 20, 13234-41	4.8	56
48	Protein labeling for live cell fluorescence microscopy with a highly photostable renewable signal. <i>Chemical Science</i> , 2017 , 8, 7138-7142	9.4	50
47	Plants with genetically encoded autoluminescence. <i>Nature Biotechnology</i> , 2020 , 38, 944-946	44.5	41
46	Synthesis and properties of the red chromophore of the green-to-red photoconvertible fluorescent protein Kaede and its analogs. <i>Bioorganic Chemistry</i> , 2008 , 36, 96-104	5.1	40
45	Unveiling Structural Motions of a Highly Fluorescent Superphotoacid by Locking and Fluorinating the GFP Chromophore in Solution. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 5921-5928	6.4	34
44	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, 5566-8	16.4	33

43	Tryptophan-based chromophore in fluorescent proteins can be anionic. <i>Scientific Reports</i> , 2012 , 2, 608	4.9	29
42	Designing redder and brighter fluorophores by synergistic tuning of ground and excited states. <i>Chemical Communications</i> , 2019 , 55, 2537-2540	5.8	27
41	Bioinspired Fluorescent Dyes Based on a Conformationally Locked Chromophore of the Fluorescent Protein Kaede. <i>European Journal of Organic Chemistry</i> , 2015 , 2015, 5716-5721	3.2	27
40	Docking-guided identification of protein hosts for GFP chromophore-like ligands. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 3036-3040	7.1	26
39	Chemical introduction of the green fluorescence: imaging of cysteine cathepsins by an irreversibly locked GFP fluorophore. <i>Organic and Biomolecular Chemistry</i> , 2013 , 11, 5913-21	3.9	26
38	A synthetic approach to GFP chromophore analogs from 3-azidocinnamates. Role of methyl rotors in chromophore photophysics. <i>Chemical Communications</i> , 2013 , 49, 5778-80	5.8	24
37	Photoinduced Proton Transfer of GFP-Inspired Fluorescent Superphotoacids: Principles and Design. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 3804-3821	3.4	22
36	A Tale Of Two Luciferins: Fungal and Earthworm New Bioluminescent Systems. <i>Accounts of Chemical Research</i> , 2016 , 49, 2372-2380	24.3	22
35	Novel mechanism of bioluminescence: oxidative decarboxylation of a moiety adjacent to the light emitter of Fridericia luciferin. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 7065-7	16.4	21
34	Selected Least Studied but not Forgotten Bioluminescent Systems. <i>Photochemistry and Photobiology</i> , 2017 , 93, 405-415	3.6	20
33	Synthesis and spectral and chemical properties of the yellow fluorescent protein zFP538 chromophore. <i>Biochemistry</i> , 2009 , 48, 8077-82	3.2	20
32	Bioluminescence chemistry of fireworm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 18911-18916	11.5	18
31	A synthetic GFP-like chromophore undergoes base-catalyzed autoxidation into acylimine red form. <i>Journal of Organic Chemistry</i> , 2011 , 76, 2782-91	4.2	18
30	Luciferase of the Japanese syllid polychaete <i>Odontosyllis undecimdongata</i> . <i>Biochemical and Biophysical Research Communications</i> , 2018 , 502, 318-323	3.4	17
29	Identification of hispidin as a bioluminescent active compound and its recycling biosynthesis in the luminous fungal fruiting body. <i>Photochemical and Photobiological Sciences</i> , 2017 , 16, 1435-1440	4.2	15
28	Structure of the red fluorescent protein from a lancelet (<i>Branchiostoma lanceolatum</i>): a novel GYG chromophore covalently bound to a nearby tyrosine. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013 , 69, 1850-60		13
27	New class of blue animal pigments based on Frizzled and Kringle protein domains. <i>Journal of Biological Chemistry</i> , 2004 , 279, 43367-70	5.4	13
26	Prolonged bioluminescence imaging in living cells and mice using novel pro-substrates for Renilla luciferase. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 10238-10244	3.9	12

25	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	2	11
24	AsLn2, a luciferin-related modified tripeptide from the bioluminescent earthworm <i>Fridericia heliota</i> . <i>Tetrahedron Letters</i> , 2014 , 55, 463-465	2	10
23	New bioluminescent coelenterazine derivatives with various C-6 substitutions. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 7008-7018	3.9	10
22	Bioluminescence 2019 ,		10
21	Allylic boron and zinc derivatives in synthesis and transformations of nitrogen heterocycles. <i>Pure and Applied Chemistry</i> , 2000 , 72, 1641-1644	2.1	9
20	Novel condensations of nitroacetic esters with aromatic aldehydes leading to 5-hydroxy-1,2-oxazin-6-ones. <i>Tetrahedron Letters</i> , 2013 , 54, 628-629	2	8
19	Allylboration of functionalized isoquinolines. <i>Journal of Organometallic Chemistry</i> , 2002 , 657, 123-128	2.3	8
18	Efficient Synthetic Approach to Fluorescent Oxazole-4-carboxylate Derivatives. <i>Synthetic Communications</i> , 2013 , 43, 2337-2342	1.7	7
17	The Chemical Basis of Fungal Bioluminescence. <i>Angewandte Chemie</i> , 2015 , 127, 8242-8246	3.6	7
16	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, 3942-7	4.8	7
15	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	3.6	6
14	Total synthesis of AsLn2 \square luciferin analogue from the Siberian bioluminescent earthworm <i>Fridericia heliota</i> . <i>Mendeleev Communications</i> , 2015 , 25, 99-100	1.9	4
13	Ring-expanding rearrangement of 2-acyl-5-arylidene-3,5-dihydro-4H-imidazol-4-ones in synthesis of flutimide analogs. <i>Tetrahedron</i> , 2014 , 70, 3714-3719	2.4	4
12	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	1.9	4
11	Conformationally locked GFP chromophore derivatives as potential fluorescent sensors. <i>Russian Journal of Bioorganic Chemistry</i> , 2016 , 42, 453-456	1	4
10	Plants with self-sustained luminescence		3
9	<i>Chaetopterus variopedatus</i> Bioluminescence: A Review of Light Emission within a Species Complex. <i>Photochemistry and Photobiology</i> , 2020 , 96, 768-778	3.6	2
8	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	3.6	2

7	A bioluminescent system of fungi: prospects for application in medical research. <i>Bulletin of Russian State Medical University</i> , 2018 , 74-77	0.4	1
6	Unusual transformations of anthranilic acid imidazolides. <i>Chemistry of Heterocyclic Compounds</i> , 2012 , 48, 1108-1110	1.4	0
5	Unexpected Coelenterazine Degradation Products of Photoprotein Photoinactivation. <i>Organic Letters</i> , 2021 , 23, 6846-6849	6.2	0
4	Synthesis of Panal Terpenoid Core. <i>Synlett</i> , 2017 , 28, 583-588	2.2	
3	Titelbild: The Chemical Basis of Fungal Bioluminescence (Angew. Chem. 28/2015). <i>Angewandte Chemie</i> , 2015 , 127, 8113-8113	3.6	
2	Bioluminescent imaging: new opportunities. <i>Bulletin of Russian State Medical University</i> , 2018 , 87-90	0.4	
1	Luminous Fungi 2019 , 301-348		