

Alexander Mishin

List of Publications by Year in Descending Order

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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.

54
papers

1,316
citations

19
h-index

35
g-index

69
ext. papers

1,741
ext. citations

6.7
avg, IF

4.2
L-index

#	Paper	IF	Citations
54	Environment-sensitive fluorogens based on a GFP chromophore structural motif. <i>Dyes and Pigments</i> , 2022 , 198, 110033	4.6	1
53	Computational redesign of a fluorogen activating protein with Rosetta. <i>PLoS Computational Biology</i> , 2021 , 17, e1009555	5	
52	Transient Fluorescence Labeling: Low Affinity-High Benefits. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
51	Suppression of liquid-liquid phase separation by 1,6-hexanediol partially compromises the 3D genome organization in living cells. <i>Nucleic Acids Research</i> , 2021 , 49, 10524-10541	20.1	14
50	Developing Bright Green Fluorescent Protein (GFP)-like Fluorogens for Live-Cell Imaging with Nonpolar Protein-Chromophore Interactions. <i>Chemistry - A European Journal</i> , 2021 , 27, 8946-8950	4.8	6
49	Treacle and TOPBP1 control replication stress response in the nucleolus. <i>Journal of Cell Biology</i> , 2021 , 220,	7.3	3
48	Chromophore reduction plus reversible photobleaching: how the mKate2 "photoconversion" works. <i>Photochemical and Photobiological Sciences</i> , 2021 , 20, 791-803	4.2	1
47	Color Tuning of Fluorogens for FAST Fluorogen-Activating Protein. <i>Chemistry - A European Journal</i> , 2021 , 27, 3986-3990	4.8	6
46	NanoFAST: structure-based design of a small fluorogen-activating protein with only 98 amino acids. <i>Chemical Science</i> , 2021 , 12, 6719-6725	9.4	4
45	DiB-splits: nature-guided design of a novel fluorescent labeling split system. <i>Scientific Reports</i> , 2020 , 10, 11049	4.9	5
44	Design of red-shifted and environment-sensitive fluorogens based on GFP chromophore core. <i>Dyes and Pigments</i> , 2020 , 177, 108258	4.6	3
43	Plants with genetically encoded autoluminescence. <i>Nature Biotechnology</i> , 2020 , 38, 944-946	44.5	41
42	Excimer-FRET Cascade in Dual DNA Probes: Open Access to Large Stokes Shift, Enhanced Acceptor Light up, and Robust RNA Sensing. <i>Analytical Chemistry</i> , 2020 , 92, 7028-7036	7.8	5
41	Highly photostable fluorescent labeling of proteins in live cells using exchangeable coiled coils heterodimerization. <i>Cellular and Molecular Life Sciences</i> , 2020 , 77, 4429-4440	10.3	7
40	Live-cell nanoscopy with spontaneous blinking of conventional green fluorescent proteins. <i>Biochemical and Biophysical Research Communications</i> , 2020 , 522, 852-854	3.4	6
39	A General Mechanism of Green-to-Red Photoconversions of GFP. <i>Frontiers in Molecular Biosciences</i> , 2020 , 7, 176	5.6	2
38	Synthesis and Optical Properties of the New Acetylene Kaede Chromophore Analog. <i>Russian Journal of Bioorganic Chemistry</i> , 2020 , 46, 458-461	1	1

37	Structure-Based Rational Design of Two Enhanced Bacterial Lipocalin Tags for Protein-PAINT Super-resolution Microscopy. <i>ACS Chemical Biology</i> , 2020 , 15, 2456-2465	4.9	5
36	An experimental assay of the interactions of amino acids from orthologous sequences shaping a complex fitness landscape. <i>PLoS Genetics</i> , 2019 , 15, e1008079	6	24
35	Red-Shifted Substrates for FAST Fluorogen-Activating Protein Based on the GFP-Like Chromophores. <i>Chemistry - A European Journal</i> , 2019 , 25, 9592-9596	4.8	23
34	Artificial Electron-transport Chains Based on Green Fluorescent Protein. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2019 , 126, 102-105	0.7	1
33	Live-Cell Super-resolution Fluorescence Microscopy. <i>Biochemistry (Moscow)</i> , 2019 , 84, S19-S31	2.9	3
32	A genetically encoded fluorescent probe for imaging of oxygenation gradients in living. <i>Development (Cambridge)</i> , 2018 , 145,	6.6	8
31	Fast reversibly photoswitching red fluorescent proteins for live-cell RESOLFT nanoscopy. <i>Nature Methods</i> , 2018 , 15, 601-604	21.6	40
30	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
29	Live-cell nanoscopy enabled with transient labeling and the control of fluorophore blinking. <i>EPJ Web of Conferences</i> , 2018 , 190, 03008	0.3	
28	Red-Shifted Aminated Derivatives of GFP Chromophore for Live-Cell Protein Labeling with Lipocalins. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	9
27	Yellow and Orange Fluorescent Proteins with Tryptophan-based Chromophores. <i>ACS Chemical Biology</i> , 2017 , 12, 1867-1873	4.9	6
26	Fluorophores for single-molecule localization microscopy. <i>Russian Journal of Bioorganic Chemistry</i> , 2017 , 43, 227-234	1	3
25	Intrinsic blinking of red fluorescent proteins for super-resolution microscopy. <i>Chemical Communications</i> , 2017 , 53, 949-951	5.8	8
24	Protein labeling for live cell fluorescence microscopy with a highly photostable renewable signal. <i>Chemical Science</i> , 2017 , 8, 7138-7142	9.4	50
23	Green fluorescent protein with tryptophan-based chromophore stable at low pH. <i>Russian Journal of Bioorganic Chemistry</i> , 2017 , 43, 220-222	1	1
22	Green-to-red primed conversion of Dendra2 using blue and red lasers. <i>Chemical Communications</i> , 2016 , 52, 13144-13146	5.8	20
21	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
20	The Principles of Super-Resolution Fluorescence Microscopy (Review). <i>Sovremennye Tehnologii V Medicine</i> , 2016 , 8, 130-140	1.2	5

19	Fluorescence Imaging of Actin Fine Structure in Tumor Tissues Using SiR-Actin Staining. <i>Anticancer Research</i> , 2016 , 36, 5287-5294	2.3	2
18	Three-dimensional structure of a pH-dependent fluorescent protein WasCFP with a tryptophan based deprotonated chromophore. <i>Russian Journal of Bioorganic Chemistry</i> , 2016 , 42, 612-618	1	1
17	Local fitness landscape of the green fluorescent protein. <i>Nature</i> , 2016 , 533, 397-401	50.4	232
16	Structure of the green fluorescent protein NowGFP with an anionic tryptophan-based chromophore. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015 , 71, 1699-707		8
15	Green fluorescent protein with anionic tryptophan-based chromophore and long fluorescence lifetime. <i>Biophysical Journal</i> , 2015 , 109, 380-9	2.9	36
14	Fluorescence imaging using synthetic GFP chromophores. <i>Current Opinion in Chemical Biology</i> , 2015 , 27, 64-74	9.7	96
13	Live-Cell STED Microscopy with Genetically Encoded Biosensor. <i>Nano Letters</i> , 2015 , 15, 2928-32	11.5	27
12	KillerOrange, a Genetically Encoded Photosensitizer Activated by Blue and Green Light. <i>PLoS ONE</i> , 2015 , 10, e0145287	3.7	47
11	Crystal Structure of Phototoxic Orange Fluorescent Proteins with a Tryptophan-Based Chromophore. <i>PLoS ONE</i> , 2015 , 10, e0145740	3.7	17
10	Novel uses of fluorescent proteins. <i>Current Opinion in Chemical Biology</i> , 2015 , 27, 1-9	9.7	77
9	Fluorescent Protein Based FRET Pairs with Improved Dynamic Range for Fluorescence Lifetime Measurements. <i>PLoS ONE</i> , 2015 , 10, e0134436	3.7	24
8	Red-shifted fluorescent aminated derivatives of a conformationally locked GFP chromophore. <i>Chemistry - A European Journal</i> , 2014 , 20, 13234-41	4.8	56
7	Tryptophan-based chromophore in fluorescent proteins can be anionic. <i>Scientific Reports</i> , 2012 , 2, 608	4.9	29
6	Green fluorescent proteins are light-induced electron donors. <i>Nature Chemical Biology</i> , 2009 , 5, 459-61	11.7	156
5	Individual characterization of stably expanded T cell clones in ankylosing spondylitis patients. <i>Autoimmunity</i> , 2009 , 42, 525-36	3	13
4	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
3	Plants with self-sustained luminescence		3
2	NanoFAST: Structure-based design of a small fluorogen-activating protein with only 98 amino acids		1

1 Experimental assay of a fitness landscape on a macroevolutionary scale

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