Alexander Mishin

List of Publications by Citations

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	Local fitness landscape of the green fluorescent protein. *Nature*, **2016**, 533, 397-401	50.4	232
53	Green fluorescent proteins are light-induced electron donors. *Nature Chemical Biology*, **2009**, 5, 459-61	11.7	156
52	Fluorescence imaging using synthetic GFP chromophores. *Current Opinion in Chemical Biology*, **2015**, 27, 64-74	9.7	96
51	Novel uses of fluorescent proteins. *Current Opinion in Chemical Biology*, **2015**, 27, 1-9	9.7	77
50	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
49	The first mutant of the Aequorea victoria green fluorescent protein that forms a red chromophore. *Biochemistry*, **2008**, 47, 4666-73	3.2	58
48	Red-shifted fluorescent aminated derivatives of a conformationally locked GFP chromophore. *Chemistry - A European Journal*, **2014**, 20, 13234-41	4.8	56
47	Protein labeling for live cell fluorescence microscopy with a highly photostable renewable signal. *Chemical Science*, **2017**, 8, 7138-7142	9.4	50
46	KillerOrange, a Genetically Encoded Photosensitizer Activated by Blue and Green Light. *PLoS ONE*, **2015**, 10, e0145287	3.7	47
45	Plants with genetically encoded autoluminescence. *Nature Biotechnology*, **2020**, 38, 944-946	44.5	41
44	Fast reversibly photoswitching red fluorescent proteins for live-cell RESOLFT nanoscopy. *Nature Methods*, **2018**, 15, 601-604	21.6	40
43	Green fluorescent protein with anionic tryptophan-based chromophore and long fluorescence lifetime. *Biophysical Journal*, **2015**, 109, 380-9	2.9	36
42	Tryptophan-based chromophore in fluorescent proteins can be anionic. *Scientific Reports*, **2012**, 2, 608	4.9	29
41	Live-Cell STED Microscopy with Genetically Encoded Biosensor. *Nano Letters*, **2015**, 15, 2928-32	11.5	27
40	Docking-guided identification of protein hosts for GFP chromophore-like ligands. *Journal of Materials Chemistry C*, **2016**, 4, 3036-3040	7.1	26
39	An experimental assay of the interactions of amino acids from orthologous sequences shaping a complex fitness landscape. *PLoS Genetics*, **2019**, 15, e1008079	6	24
38	Fluorescent Protein Based FRET Pairs with Improved Dynamic Range for Fluorescence Lifetime Measurements. *PLoS ONE*, **2015**, 10, e0134436	3.7	24

37	Red-Shifted Substrates for FAST Fluorogen-Activating Protein Based on the GFP-Like Chromophores. *Chemistry - A European Journal*, **2019**, 25, 9592-9596	4.8	23
36	Green-to-red primed conversion of Dendra2 using blue and red lasers. *Chemical Communications*, **2016**, 52, 13144-13146	5.8	20
35	Crystal Structure of Phototoxic Orange Fluorescent Proteins with a Tryptophan-Based Chromophore. *PLoS ONE*, **2015**, 10, e0145740	3.7	17
34	Suppression of liquid-liquid phase separation by 1,6-hexanediol partially compromises the 3D genome organization in living cells. *Nucleic Acids Research*, **2021**, 49, 10524-10541	20.1	14
33	Individual characterization of stably expanded T cell clones in ankylosing spondylitis patients. *Autoimmunity*, **2009**, 42, 525-36	3	13
32	Red-Shifted Aminated Derivatives of GFP Chromophore for Live-Cell Protein Labeling with Lipocalins. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	9
31	Intrinsic blinking of red fluorescent proteins for super-resolution microscopy. *Chemical Communications*, **2017**, 53, 949-951	5.8	8
30	Structure of the green fluorescent protein NowGFP with an anionic tryptophan-based chromophore. *Acta Crystallographica Section D: Biological Crystallography*, **2015**, 71, 1699-707		8
29	A genetically encoded fluorescent probe for imaging of oxygenation gradients in living. *Development (Cambridge)*, **2018**, 145,	6.6	8
28	Highly photostable fluorescent labeling of proteins in live cells using exchangeable coiled coils heterodimerization. *Cellular and Molecular Life Sciences*, **2020**, 77, 4429-4440	10.3	7
27	Yellow and Orange Fluorescent Proteins with Tryptophan-based Chromophores. *ACS Chemical Biology*, **2017**, 12, 1867-1873	4.9	6
26	Live-cell nanoscopy with spontaneous blinking of conventional green fluorescent proteins. *Biochemical and Biophysical Research Communications*, **2020**, 522, 852-854	3.4	6
25	Developing Bright Green Fluorescent Protein (GFP)-like Fluorogens for Live-Cell Imaging with Nonpolar Protein-Chromophore Interactions. *Chemistry - A European Journal*, **2021**, 27, 8946-8950	4.8	6
24	Color Tuning of Fluorogens for FAST Fluorogen-Activating Protein. *Chemistry - A European Journal*, **2021**, 27, 3986-3990	4.8	6
23	DiB-splits: nature-guided design of a novel fluorescent labeling split system. *Scientific Reports*, **2020** , 10, 11049	4.9	5
22	Excimer-FRET Cascade in Dual DNA Probes: Open Access to Large Stokes Shift, Enhanced Acceptor Light up, and Robust RNA Sensing. *Analytical Chemistry*, **2020**, 92, 7028-7036	7.8	5
21	The Principles of Super-Resolution Fluorescence Microscopy (Review). *Sovremennye Tehnologii V Medicine*, **2016**, 8, 130-140	1.2	5
20	Structure-Based Rational Design of Two Enhanced Bacterial Lipocalin Tags for Protein-PAINT Super-resolution Microscopy. *ACS Chemical Biology*, **2020**, 15, 2456-2465	4.9	5

19	Experimental assay of a fitness landscape on a macroevolutionary scale		4
18	NanoFAST: structure-based design of a small fluorogen-activating protein with only 98 amino acids. *Chemical Science*, **2021**, 12, 6719-6725	9.4	4
17	Fluorophores for single-molecule localization microscopy. *Russian Journal of Bioorganic Chemistry*, **2017**, 43, 227-234	1	3
16	Live-Cell Super-resolution Fluorescence Microscopy. *Biochemistry (Moscow)*, **2019**, 84, S19-S31	2.9	3
15	Design of red-shifted and environment-sensitive fluorogens based on GFP chromophore core. *Dyes and Pigments*, **2020**, 177, 108258	4.6	3
14	Plants with self-sustained luminescence		3
13	Transient Fluorescence Labeling: Low Affinity-High Benefits. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	3
12	Treacle and TOPBP1 control replication stress response in the nucleolus. *Journal of Cell Biology*, **2021**, 220,	7.3	3
11	Fluorescence Imaging of Actin Fine Structure in Tumor Tissues Using SiR-Actin Staining. *Anticancer Research*, **2016**, 36, 5287-5294	2.3	2
10	A General Mechanism of Green-to-Red Photoconversions of GFP. *Frontiers in Molecular Biosciences*, **2020**, 7, 176	5.6	2
9	Artificial Electron-transport Chains Based on Green Fluorescent Protein. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2019**, 126, 102-105	0.7	1
8	Green fluorescent protein with tryptophan-based chromophore stable at low pH. *Russian Journal of Bioorganic Chemistry*, **2017**, 43, 220-222	1	1
7	Environment-sensitive fluorogens based on a GFP chromophore structural motif. *Dyes and Pigments* , **2022**, 198, 110033	4.6	1
6	NanoFAST: Structure-based design of a small fluorogen-activating protein with only 98 amino acids		1
5	Synthesis and Optical Properties of the New Acetylene Kaede Chromophore Analog. *Russian Journal of Bioorganic Chemistry*, **2020**, 46, 458-461	1	1
4	Chromophore reduction plus reversible photobleaching: how the mKate2 "photoconversion" works. *Photochemical and Photobiological Sciences*, **2021**, 20, 791-803	4.2	1
3	Three-dimensional structure of a pH-dependent fluorescent protein WasCFP with a tryptophan based deprotonated chromophore. *Russian Journal of Bioorganic Chemistry*, **2016**, 42, 612-618	1	1
2	Computational redesign of a fluorogen activating protein with Rosetta. *PLoS Computational Biology* , **2021**, 17, e1009555	5	

List of Publications

1	Live-cell nanoscopy enabled with transient labeling and the control of fluorophore blinking. *EPJ Web of Conferences*, **2018**, 190, 03008	0.3