

Mikhail Baranov

List of Publications by Citations

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99
papers

1,255
citations

18
h-index

32
g-index

124
ext. papers

1,673
ext. citations

4.8
avg. IF

4.44
L-index

#	Paper	IF	Citations
99	Local fitness landscape of the green fluorescent protein. <i>Nature</i> , 2016 , 533, 397-401	50.4	232
98	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
97	The Chemical Basis of Fungal Bioluminescence. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 8124-8144	14.3	66
96	Mechanism and color modulation of fungal bioluminescence. <i>Science Advances</i> , 2017 , 3, e1602847	14.3	56
95	Red-shifted fluorescent aminated derivatives of a conformationally locked GFP chromophore. <i>Chemistry - A European Journal</i> , 2014 , 20, 13234-41	4.8	56
94	Protein labeling for live cell fluorescence microscopy with a highly photostable renewable signal. <i>Chemical Science</i> , 2017 , 8, 7138-7142	9.4	50
93	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
92	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
91	Designing redder and brighter fluorophores by synergistic tuning of ground and excited states. <i>Chemical Communications</i> , 2019 , 55, 2537-2540	5.8	27
90	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
89	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
88	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
87	Pyridinium Analogues of Green Fluorescent Protein Chromophore: Fluorogenic Dyes with Large Solvent-Dependent Stokes Shift. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 1958-1963	6.4	25
86	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
85	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
84	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
83	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, 7065-7	16.4	21

82	i-Clamp phenoxazine for the fine tuning of DNA i-motif stability. <i>Nucleic Acids Research</i> , 2018 , 46, 2751-2764	11.3	18
81	Red fluorescent redox-sensitive biosensor Grx1-roCherry. <i>Redox Biology</i> , 2019 , 21, 101071	11.3	18
80	Synthesis and properties of 5-methylidene-3,5-dihydro-4H-imidazol-4-ones (microreview). <i>Chemistry of Heterocyclic Compounds</i> , 2016 , 52, 444-446	1.4	14
79	Benzothiazole-based cyanines as fluorescent "light-up" probes for duplex and quadruplex DNA. <i>Biochimie</i> , 2019 , 162, 216-228	4.6	10
78	Imidazol-5-one as an Acceptor in Donor-Acceptor Cyclopropanes: Cycloaddition with Aldehydes. <i>Organic Letters</i> , 2020 , 22, 2740-2745	6.2	10
77	Ultrafast excited-state proton transfer dynamics in dihalogenated non-fluorescent and fluorescent GFP chromophores. <i>Journal of Chemical Physics</i> , 2020 , 152, 021101	3.9	10
76	The Role of N-Substituents in Radiationless Deactivation of Aminated Derivatives of a Locked GFP Chromophore. <i>European Journal of Organic Chemistry</i> , 2017 , 2017, 5219-5224	3.2	10
75	Pyridine analogue of fluorescent protein chromophore: Fluorogenic dye suitable for mitochondria staining. <i>Dyes and Pigments</i> , 2019 , 170, 107550	4.6	9
74	Silver(I)-mediated base pairing in parallel-stranded DNA involving the luminescent cytosine analog 1,3-diaza-2-oxophenoxazine. <i>Journal of Biological Inorganic Chemistry</i> , 2019 , 24, 693-702	3.7	9
73	pH-Sensitive fluorophores from locked GFP chromophores by a non-alternant analogue of the photochemical meta effect. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 26703-26711	3.6	9
72	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
71	Antiviral activity spectrum of phenoxazine nucleoside derivatives. <i>Antiviral Research</i> , 2019 , 163, 117-124	10.8	8
70	Conformationally locked chromophores of CFP and Sirius protein. <i>Tetrahedron Letters</i> , 2016 , 57, 3043-3045	10.8	8
69	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
68	Azidoacetic Acid Amides in the Synthesis of Substituted Arylidene-1-H-imidazol-5-(4H)-ones. <i>ChemistrySelect</i> , 2018 , 3, 8593-8596	1.8	7
67	Efficient Synthetic Approach to Fluorescent Oxazole-4-carboxylate Derivatives. <i>Synthetic Communications</i> , 2013 , 43, 2337-2342	1.7	7
66	The Chemical Basis of Fungal Bioluminescence. <i>Angewandte Chemie</i> , 2015 , 127, 8242-8246	3.6	7
65	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

64	Copper-Catalyzed [1,3]-Dipolar Cycloaddition for the Synthesis of Macrocycles Containing Acyclic, Aromatic and Steroidal Moieties. <i>Synthesis</i> , 2009 , 2009, 2605-2615	2.9	7
63	Yellow and Orange Fluorescent Proteins with Tryptophan-based Chromophores. <i>ACS Chemical Biology</i> , 2017 , 12, 1867-1873	4.9	6
62	Synthesis of oligonucleotides containing novel G-clamp analogue with C8-tethered group in phenoxazine ring: Implication to qPCR detection of the low-copy Kemerovo virus dsRNA. <i>Bioorganic and Medicinal Chemistry</i> , 2017 , 25, 3597-3605	3.4	6
61	A key enzyme of animal steroidogenesis can function in plants enhancing their immunity and accelerating the processes of growth and development. <i>BMC Plant Biology</i> , 2017 , 17, 189	5.3	6
60	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
59	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
58	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
57	Color Tuning of Fluorogens for FAST Fluorogen-Activating Protein. <i>Chemistry - A European Journal</i> , 2021 , 27, 3986-3990	4.8	6
56	Nitroacetic Esters in the Regioselective Synthesis of Isoxazole-3,5-dicarboxylic Acid Derivatives. <i>Journal of Organic Chemistry</i> , 2019 , 84, 15417-15428	4.2	5
55	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
54	Phenoxazine nucleoside derivatives with a multiple activity against RNA and DNA viruses. <i>European Journal of Medicinal Chemistry</i> , 2021 , 220, 113467	6.8	5
53	Total synthesis of AsLn2 luciferin analogue from the Siberian bioluminescent earthworm <i>Fridericia heliota</i> . <i>Mendeleev Communications</i> , 2015 , 25, 99-100	1.9	4
52	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
51	Phenoxazine-based scaffold for designing G4-interacting agents. <i>Organic and Biomolecular Chemistry</i> , 2020 , 18, 6147-6154	3.9	4
50	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
49	Conformationally locked GFP chromophore derivatives as potential fluorescent sensors. <i>Russian Journal of Bioorganic Chemistry</i> , 2016 , 42, 453-456	1	4
48	Homophthalonitrile for Multicomponent Reactions: Syntheses and Optical Properties of -Cyanophenyl- or Indol-3-yl-Substituted Chromeno[2,3-]isoquinolin-5-Amines. <i>ChemistryOpen</i> , 2019 , 8, 23-30	2.3	4
47	Shedding light on ultrafast ring-twisting pathways of halogenated GFP chromophores from the excited to ground state. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 14636-14648	3.6	4

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	Efficient silica synthesis from tetra(glycerol)orthosilicate with cathepsin- and silicatein-like proteins. <i>Scientific Reports</i> , 2018 , 8, 16759	4.9	4
44	Synthesis of 2-arylideneimidazo[1,2-a]pyrazine-3,6,8(2H,5H,7H)-triones as a result of oxidation of 4-arylidene-2-methyl-1H-imidazol-5(4H)-ones with selenium dioxide. <i>Chemistry of Heterocyclic Compounds</i> , 2020 , 56, 116-119	1.4	3
43	Design of red-shifted and environment-sensitive fluorogens based on GFP chromophore core. <i>Dyes and Pigments</i> , 2020 , 177, 108258	4.6	3
42	A water-soluble precursor for efficient silica polymerization by silicateins. <i>Biochemical and Biophysical Research Communications</i> , 2018 , 495, 2066-2070	3.4	3
41	Derivatives of Azidocinnamic Acid in the Synthesis of 2-Amino-4-Arylidene-1H-Imidazol-5(4H)-Ones. <i>Chemistry of Heterocyclic Compounds</i> , 2018 , 54, 625-629	1.4	3
40	Imidazolone-activated donor-acceptor cyclopropanes with a peripheral stereocenter. A study on stereoselectivity of cycloaddition with aldehydes. <i>Chemistry of Heterocyclic Compounds</i> , 2020 , 56, 1092-1096	1.4	3
39	Excited-state locked amino analogues of the green fluorescent protein chromophore with a giant Stokes shift.. <i>RSC Advances</i> , 2019 , 9, 38730-38734	3.7	3
38	Enamine-azide [2+3]-cycloaddition as a method to introduce functional groups into fluorescent dyes. <i>Tetrahedron Letters</i> , 2019 , 60, 456-459	2	3
37	Imidazol-5-ones as a substrate for [1,5]-hydride shift triggered cyclization. <i>New Journal of Chemistry</i> , 2021 , 45, 1805-1808	3.6	3
36	Phenoxazine pseudonucleotides in DNA i-motifs allow precise profiling of small molecule binders by fluorescence monitoring. <i>Analyst, The</i> , 2021 , 146, 4436-4440	5	3
35	An effective method for the synthesis of 1,5-disubstituted 4-halo-1H-1,2,3-triazoles from magnesium acetylides. <i>Chemistry of Heterocyclic Compounds</i> , 2018 , 54, 755-757	1.4	3
34	A Novel Dialkylamino GFP Chromophore as an Environment-Polarity Sensor Reveals the Role of Twisted Intramolecular Charge Transfer. <i>Chemosensors</i> , 2021 , 9, 234	4	3
33	Synthesis of 2-arylidene-6,7-dihydroimidazo[1,2-a]pyrazine-3,8(2H,5H)-diones by oxidation of 4-arylidene-2-methyl-1H-imidazol-5(4H)-ones with selenium dioxide. <i>Chemistry of Heterocyclic Compounds</i> , 2017 , 53, 930-933	1.4	2
32	DNA -Motifs With Guanidino-Clamp Residues: The Counterplay Between Kinetics and Thermodynamics and Implications for the Design of pH Sensors. <i>Computational and Structural Biotechnology Journal</i> , 2019 , 17, 527-536	6.8	2
31	Separation of the 5- and 6-Carboxy Regioisomers of ROX and JOE Dyes with Examples of N-(3-Azidopropyl)amide Synthesis. <i>SynOpen</i> , 2018 , 02, 0240-0245	0.7	2
30	Novel Mechanism of Bioluminescence: Oxidative Decarboxylation of a Moiety Adjacent to the Light Emitter of Fridericia Luciferin. <i>Angewandte Chemie</i> , 2015 , 127, 7171-7173	3.6	2
29	A General Mechanism of Green-to-Red Photoconversions of GFP. <i>Frontiers in Molecular Biosciences</i> , 2020 , 7, 176	5.6	2

28	Synthesis of 5-(aminomethylidene)imidazol-4-ones by using N,N-dialkylformamide acetals. <i>Chemistry of Heterocyclic Compounds</i> , 2020 , 56, 1097-1099	1.4	2
27	Silver(I)-mediated base pairing in DNA involving the artificial nucleobase 7,8-dihydro-8-oxo-1,N-ethenoadenine. <i>Journal of Inorganic Biochemistry</i> , 2021 , 219, 111369	4.2	2
26	In-depth characterization of ubiquitin turnover in mammalian cells by fluorescence tracking. <i>Cell Chemical Biology</i> , 2021 , 28, 1192-1205.e9	8.2	2
25	Oligonucleotide Primers with G-Clamp Modifications for RT-qPCR Detection of the Low-Copy dsRNA. <i>Methods in Molecular Biology</i> , 2019 , 1973, 281-297	1.4	1
24	Modern approaches to the synthesis of 3-(acylamino)- and 3-(carbamoylamino)benzofuran-2(3H)-ones (microreview). <i>Chemistry of Heterocyclic Compounds</i> , 2020 , 56, 1274-1276	1.4	1
23	Synthesis of 6H-1,2-oxazin-6-ones (microreview). <i>Chemistry of Heterocyclic Compounds</i> , 2020 , 56, 1280-1282		1
22	Convenient and Versatile Synthetic Protocol for Arylidene-1H-imidazol-5(4H)-ones. <i>ChemistrySelect</i> , 2020 , 5, 7000-7003	1.8	1
21	(3+2) Cycloaddition of N-benzylazomethine methylide with 4-arylidene-1H-imidazol-5(4H)-ones. <i>Chemistry of Heterocyclic Compounds</i> , 2020 , 56, 108-111	1.4	1
20	Naphthalene derivatives of a conformationally locked GFP chromophore with large stokes shifts. <i>Tetrahedron Letters</i> , 2019 , 60, 150963	2	1
19	The Sonogashira reaction as a new method for the modification of borated analogues of the green fluorescence protein chromophore. <i>Russian Journal of Bioorganic Chemistry</i> , 2017 , 43, 612-615	1	1
18	Reversible condensation of 4-arylidene-1,2-dimethyl-1H-imidazol-5(4H)-ones with aromatic acyl chlorides. <i>Chemistry of Heterocyclic Compounds</i> , 2015 , 51, 944-947	1.4	1
17	Towards a generic prototyping approach for therapeutically-relevant peptides and proteins in a cell-free translation system.. <i>Nature Communications</i> , 2022 , 13, 260	17.4	1
16	Evaluation of the role that photoacid excited-state acidity has on photovoltage and photocurrent of dye-sensitized ion-exchange membranes 2019 ,		1
15	Environment-sensitive fluorogens based on a GFP chromophore structural motif. <i>Dyes and Pigments</i> , 2022 , 198, 110033	4.6	1
14	NanoFAST: Structure-based design of a small fluorogen-activating protein with only 98 amino acids		1
13	Synthesis of spiro[imidazole-4,3Rquinolin]ones from [2-(dimethylamino)benzylidene]-2-(methylsulfanyl)imidazolones. <i>Chemistry of Heterocyclic Compounds</i> , 2021 , 57, 695	1.4	1
12	Probing GFP Chromophore Analogs as Anti-HIV Agents Targeting LTR-III G-Quadruplex. <i>Biomolecules</i> , 2021 , 11,	5.9	1
11	Unusual transformations of anthranilic acid imidazolides. <i>Chemistry of Heterocyclic Compounds</i> , 2012 , 48, 1108-1110	1.4	0

10	Nucleophilic ring opening of imidazolone activated donor-acceptor cyclopropanes with alcohols. <i>Mendeleev Communications</i> , 2021 , 31, 657-658	1.9	o
9	Total Synthesis of Elmenols A and B and Related Rearranged Angucyclinones. <i>ChemistrySelect</i> , 2021 , 6, 11775-11778	1.8	o
8	Xanthates as Thiol Surrogates for Nucleophilic Substitution with Aryl Halides. <i>European Journal of Organic Chemistry</i> , 2021 , 2021, 4350-4357	3.2	o
7	O-Alkylation Redirected Condensation of 5-Hydroxy-1,2-oxazine-6-ones with Primary Amines for Synthesis of 5-Hydroxyiminopyridine-2,6(1H,3H)-diones. <i>ChemistrySelect</i> , 2021 , 6, 8938-8941	1.8	o
6	Synthesis of methylsulfanyl analogs of Kaede protein chromophore. <i>Chemistry of Heterocyclic Compounds</i> , 2020 , 56, 399-402	1.4	
5	Synthesis of spirocyclic pyrrolidines from cyclopentylideneacetic acid derivatives. <i>Chemistry of Heterocyclic Compounds</i> , 2019 , 55, 676-678	1.4	
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	Computational redesign of a fluorogen activating protein with Rosetta. <i>PLoS Computational Biology</i> , 2021 , 17, e1009555	5	
1	Snake Toxins Labeled by Green Fluorescent Protein or Its Synthetic Chromophore are New Probes for Nicotinic acetylcholine Receptors.. <i>Frontiers in Molecular Biosciences</i> , 2021 , 8, 753283	5.6	