Daria M Shcherbakova

List of Publications by Year
in descending order

37	2,976	257357	302012
papers	citations	24 h-index	39 g-index

39	39	39	3995
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Technologies for large-scale mapping of functional neural circuits active during a user-defined time window. Progress in Neurobiology, 2022, 216, 102290.	2.8	9
2	A near-infrared genetically encoded calcium indicator for in vivo imaging. Nature Biotechnology, 2021, 39, 368-377.	9.4	88
3	Real-time observation of tetrapyrrole binding to an engineered bacterial phytochrome. Communications Chemistry, 2021, 4, .	2.0	5
4	Multiplex Imaging of Rho GTPase Activities in Living Cells. Methods in Molecular Biology, 2021, 2350, 43-68.	0.4	5
5	Toward photoswitchable electronic pre-resonance stimulated Raman probes. Journal of Chemical Physics, 2021, 154, 135102.	1.2	20
6	Single-component near-infrared optogenetic systems for gene transcription regulation. Nature Communications, 2021, 12, 3859.	5.8	30
7	A guide to the optogenetic regulation of endogenous molecules. Nature Methods, 2021, 18, 1027-1037.	9.0	17
8	Multiscale Photoacoustic Tomography of a Genetically Encoded Nearâ€Infrared FRET Biosensor. Advanced Science, 2021, 8, e2102474.	5.6	12
9	Near-infrared and far-red genetically encoded indicators of neuronal activity. Journal of Neuroscience Methods, 2021, 362, 109314.	1.3	17
10	Screening and Cellular Characterization of Genetically Encoded Voltage Indicators Based on Near-Infrared Fluorescent Proteins. ACS Chemical Neuroscience, 2020, 11, 3523-3531.	1.7	15
11	A set of monomeric near-infrared fluorescent proteins for multicolor imaging across scales. Nature Communications, 2020, 11, 239.	5.8	109
12	Fluorescent Biosensors for Neurotransmission and Neuromodulation: Engineering and Applications. Frontiers in Cellular Neuroscience, 2019, 13, 474.	1.8	79
13	Smallest near-infrared fluorescent protein evolved from cyanobacteriochrome as versatile tag for spectral multiplexing. Nature Communications, 2019, 10, 279.	5.8	105
14	Chromophore binding to two cysteines increases quantum yield of near-infrared fluorescent proteins. Scientific Reports, 2019, 9, 1866.	1.6	15
15	Direct multiplex imaging and optogenetics of Rho GTPases enabled by near-infrared FRET. Nature Chemical Biology, 2018, 14, 591-600.	3.9	107
16	Near-Infrared Fluorescent Proteins: Multiplexing and Optogenetics across Scales. Trends in Biotechnology, 2018, 36, 1230-1243.	4.9	76
17	Quad-mode functional and molecular photoacoustic microscopy. Scientific Reports, 2018, 8, 11123.	1.6	38
18	Small near-infrared photochromic protein for photoacoustic multi-contrast imaging and detection of protein interactions in vivo. Nature Communications, 2018, 9, 2734.	5.8	77

#	Article	IF	Citations
19	Designing brighter near-infrared fluorescent proteins: insights from structural and biochemical studies. Chemical Science, 2017, 8, 4546-4557.	3.7	49
20	Minimal domain of bacterial phytochrome required for chromophore binding and fluorescence. Scientific Reports, 2016, 5, 18348.	1.6	50
21	Allosteric effects of chromophore interaction with dimeric near-infrared fluorescent proteins engineered from bacterial phytochromes. Scientific Reports, 2016, 6, 18750.	1.6	35
22	Bright blue-shifted fluorescent proteins with Cys in the GAF domain engineered from bacterial phytochromes: fluorescence mechanisms and excited-state dynamics. Scientific Reports, 2016, 6, 37362.	1.6	20
23	Bright monomeric near-infrared fluorescent proteins as tags and biosensors for multiscale imaging. Nature Communications, 2016, 7, 12405.	5.8	249
24	Multiscale photoacoustic tomography using reversibly switchable bacterial phytochrome as a near-infrared photochromic probe. Nature Methods, 2016, 13, 67-73.	9.0	206
25	Multiparametric Flow Cytometry Using Near-Infrared Fluorescent Proteins Engineered from Bacterial Phytochromes. PLoS ONE, 2015, 10, e0122342.	1.1	19
26	In Vivo Tomographic Imaging of Deep-Seated Cancer Using Fluorescence Lifetime Contrast. Cancer Research, 2015, 75, 1236-1243.	0.4	58
27	Natural Photoreceptors as a Source of Fluorescent Proteins, Biosensors, and Optogenetic Tools. Annual Review of Biochemistry, 2015, 84, 519-550.	5.0	161
28	Near-infrared fluorescent proteins engineered from bacterial phytochromes. Current Opinion in Chemical Biology, 2015, 27, 52-63.	2.8	107
29	Molecular Basis of Spectral Diversity in Near-Infrared Phytochrome-Based Fluorescent Proteins. Chemistry and Biology, 2015, 22, 1540-1551.	6.2	47
30	Orange Fluorescent Proteins: Structural Studies of LSSmOrange, PSmOrange and PSmOrange2. PLoS ONE, 2014, 9, e99136.	1.1	24
31	Reversibly switchable fluorescence microscopy with enhanced resolution and image contrast. Journal of Biomedical Optics, 2014, 19, 086018.	1.4	8
32	Chromophore chemistry of fluorescent proteins controlled by light. Current Opinion in Chemical Biology, 2014, 20, 60-68.	2.8	57
33	Multicontrast photoacoustic in vivo imaging using near-infrared fluorescent proteins. Scientific Reports, 2014, 4, 3939.	1.6	86
34	Near-infrared fluorescent proteins for multicolor in vivo imaging. Nature Methods, 2013, 10, 751-754.	9.0	475
35	An Orange Fluorescent Protein with a Large Stokes Shift for Single-Excitation Multicolor FCCS and FRET Imaging. Journal of the American Chemical Society, 2012, 134, 7913-7923.	6.6	215
36	Red Fluorescent Proteins: Advanced Imaging Applications and Future Design. Angewandte Chemie - International Edition, 2012, 51, 10724-10738.	7.2	145

#	Article	IF	Citations
37	Modern fluorescent proteins: from chromophore formation to novel intracellular applications. BioTechniques, 2011, 51, 313-327.	0.8	137