

# Daria M Shcherbakova

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

2,976  
citations

257101

24  
h-index

301761

39  
g-index

39  
all docs

39  
docs citations

39  
times ranked

3995  
citing authors

#	ARTICLE	IF	CITATIONS
1	Near-infrared fluorescent proteins for multicolor in vivo imaging. <i>Nature Methods</i> , 2013, 10, 751-754.	9.0	475
2	Bright monomeric near-infrared fluorescent proteins as tags and biosensors for multiscale imaging. <i>Nature Communications</i> , 2016, 7, 12405.	5.8	249
3	An Orange Fluorescent Protein with a Large Stokes Shift for Single-Excitation Multicolor FCCS and FRET Imaging. <i>Journal of the American Chemical Society</i> , 2012, 134, 7913-7923.	6.6	215
4	Multiscale photoacoustic tomography using reversibly switchable bacterial phytochrome as a near-infrared photochromic probe. <i>Nature Methods</i> , 2016, 13, 67-73.	9.0	206
5	Natural Photoreceptors as a Source of Fluorescent Proteins, Biosensors, and Optogenetic Tools. <i>Annual Review of Biochemistry</i> , 2015, 84, 519-550.	5.0	161
6	Red Fluorescent Proteins: Advanced Imaging Applications and Future Design. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10724-10738.	7.2	145
7	Modern fluorescent proteins: from chromophore formation to novel intracellular applications. <i>BioTechniques</i> , 2011, 51, 313-327.	0.8	137
8	A set of monomeric near-infrared fluorescent proteins for multicolor imaging across scales. <i>Nature Communications</i> , 2020, 11, 239.	5.8	109
9	Near-infrared fluorescent proteins engineered from bacterial phytochromes. <i>Current Opinion in Chemical Biology</i> , 2015, 27, 52-63.	2.8	107
10	Direct multiplex imaging and optogenetics of Rho GTPases enabled by near-infrared FRET. <i>Nature Chemical Biology</i> , 2018, 14, 591-600.	3.9	107
11	Smallest near-infrared fluorescent protein evolved from cyanobacteriochrome as versatile tag for spectral multiplexing. <i>Nature Communications</i> , 2019, 10, 279.	5.8	105
12	A near-infrared genetically encoded calcium indicator for in vivo imaging. <i>Nature Biotechnology</i> , 2021, 39, 368-377.	9.4	88
13	Multicontrast photoacoustic in vivo imaging using near-infrared fluorescent proteins. <i>Scientific Reports</i> , 2014, 4, 3939.	1.6	86
14	Fluorescent Biosensors for Neurotransmission and Neuromodulation: Engineering and Applications. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 474.	1.8	79
15	Small near-infrared photochromic protein for photoacoustic multi-contrast imaging and detection of protein interactions in vivo. <i>Nature Communications</i> , 2018, 9, 2734.	5.8	77
16	Near-Infrared Fluorescent Proteins: Multiplexing and Optogenetics across Scales. <i>Trends in Biotechnology</i> , 2018, 36, 1230-1243.	4.9	76
17	<i>In Vivo</i> Tomographic Imaging of Deep-Seated Cancer Using Fluorescence Lifetime Contrast. <i>Cancer Research</i> , 2015, 75, 1236-1243.	0.4	58
18	Chromophore chemistry of fluorescent proteins controlled by light. <i>Current Opinion in Chemical Biology</i> , 2014, 20, 60-68.	2.8	57

#	ARTICLE	IF	CITATIONS
19	Minimal domain of bacterial phytochrome required for chromophore binding and fluorescence. <i>Scientific Reports</i> , 2016, 5, 18348.	1.6	50
20	Designing brighter near-infrared fluorescent proteins: insights from structural and biochemical studies. <i>Chemical Science</i> , 2017, 8, 4546-4557.	3.7	49
21	Molecular Basis of Spectral Diversity in Near-Infrared Phytochrome-Based Fluorescent Proteins. <i>Chemistry and Biology</i> , 2015, 22, 1540-1551.	6.2	47
22	Quad-mode functional and molecular photoacoustic microscopy. <i>Scientific Reports</i> , 2018, 8, 11123.	1.6	38
23	Allosteric effects of chromophore interaction with dimeric near-infrared fluorescent proteins engineered from bacterial phytochromes. <i>Scientific Reports</i> , 2016, 6, 18750.	1.6	35
24	Single-component near-infrared optogenetic systems for gene transcription regulation. <i>Nature Communications</i> , 2021, 12, 3859.	5.8	30
25	Orange Fluorescent Proteins: Structural Studies of LSSmOrange, PSmOrange and PSmOrange2. <i>PLoS ONE</i> , 2014, 9, e99136.	1.1	24
26	Bright blue-shifted fluorescent proteins with Cys in the GAF domain engineered from bacterial phytochromes: fluorescence mechanisms and excited-state dynamics. <i>Scientific Reports</i> , 2016, 6, 37362.	1.6	20
27	Toward photoswitchable electronic pre-resonance stimulated Raman probes. <i>Journal of Chemical Physics</i> , 2021, 154, 135102.	1.2	20
28	Multiparametric Flow Cytometry Using Near-Infrared Fluorescent Proteins Engineered from Bacterial Phytochromes. <i>PLoS ONE</i> , 2015, 10, e0122342.	1.1	19
29	A guide to the optogenetic regulation of endogenous molecules. <i>Nature Methods</i> , 2021, 18, 1027-1037.	9.0	17
30	Near-infrared and far-red genetically encoded indicators of neuronal activity. <i>Journal of Neuroscience Methods</i> , 2021, 362, 109314.	1.3	17
31	Chromophore binding to two cysteines increases quantum yield of near-infrared fluorescent proteins. <i>Scientific Reports</i> , 2019, 9, 1866.	1.6	15
32	Screening and Cellular Characterization of Genetically Encoded Voltage Indicators Based on Near-Infrared Fluorescent Proteins. <i>ACS Chemical Neuroscience</i> , 2020, 11, 3523-3531.	1.7	15
33	Multiscale Photoacoustic Tomography of a Genetically Encoded Near-Infrared FRET Biosensor. <i>Advanced Science</i> , 2021, 8, e2102474.	5.6	12
34	Technologies for large-scale mapping of functional neural circuits active during a user-defined time window. <i>Progress in Neurobiology</i> , 2022, 216, 102290.	2.8	9
35	Reversibly switchable fluorescence microscopy with enhanced resolution and image contrast. <i>Journal of Biomedical Optics</i> , 2014, 19, 086018.	1.4	8
36	Real-time observation of tetrapyrrole binding to an engineered bacterial phytochrome. <i>Communications Chemistry</i> , 2021, 4, .	2.0	5

#	ARTICLE	IF	CITATIONS
37	Multiplex Imaging of Rho GTPase Activities in Living Cells. Methods in Molecular Biology, 2021, 2350, 43-68.	0.4	5