

Fedor V Subach

List of Publications by Citations

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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.

40
papers

2,454
citations

21
h-index

49
g-index

49
ext. papers

2,860
ext. citations

10
avg, IF

4.79
L-index

#	Paper	IF	Citations
40	Photoactivatable mCherry for high-resolution two-color fluorescence microscopy. <i>Nature Methods</i> , 2009 , 6, 153-9	21.6	468
39	Conversion of red fluorescent protein into a bright blue probe. <i>Chemistry and Biology</i> , 2008 , 15, 1116-24		208
38	Red fluorescent genetically encoded indicator for intracellular hydrogen peroxide. <i>Nature Communications</i> , 2014 , 5, 5222	17.4	168
37	Bright monomeric photoactivatable red fluorescent protein for two-color super-resolution sptPALM of live cells. <i>Journal of the American Chemical Society</i> , 2010 , 132, 6481-91	16.4	160
36	Green fluorescent proteins are light-induced electron donors. <i>Nature Chemical Biology</i> , 2009 , 5, 459-61	11.7	156
35	Chromophore transformations in red fluorescent proteins. <i>Chemical Reviews</i> , 2012 , 112, 4308-27	68.1	136
34	Monomeric fluorescent timers that change color from blue to red report on cellular trafficking. <i>Nature Chemical Biology</i> , 2009 , 5, 118-26	11.7	126
33	Engineering of bacterial phytochromes for near-infrared imaging, sensing, and light-control in mammals. <i>Chemical Society Reviews</i> , 2013 , 42, 3441-52	58.5	114
32	Red fluorescent protein with reversibly photoswitchable absorbance for photochromic FRET. <i>Chemistry and Biology</i> , 2010 , 17, 745-55		113
31	Superresolution imaging of multiple fluorescent proteins with highly overlapping emission spectra in living cells. <i>Biophysical Journal</i> , 2011 , 101, 1522-8	2.9	109
30	Far-red light photoactivatable near-infrared fluorescent proteins engineered from a bacterial phytochrome. <i>Nature Communications</i> , 2013 , 4, 2153	17.4	80
29	Photoactivation mechanism of PAmCherry based on crystal structures of the protein in the dark and fluorescent states. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 21097-102	11.5	70
28	Flow cytometry of fluorescent proteins. <i>Methods</i> , 2012 , 57, 318-30	4.6	61
27	Directed molecular evolution to design advanced red fluorescent proteins. <i>Nature Methods</i> , 2011 , 8, 1019-26	21.6	60
26	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
25	Understanding blue-to-red conversion in monomeric fluorescent timers and hydrolytic degradation of their chromophores. <i>Journal of the American Chemical Society</i> , 2010 , 132, 2243-53	16.4	44
24	Solid state yellow and orange lasers for flow cytometry. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2008 , 73, 570-7	4.6	44

23	New lasers for flow cytometry: filling the gaps. <i>Nature Methods</i> , 2007 , 4, 678-9	21.6	35
22	A structural basis for reversible photoswitching of absorbance spectra in red fluorescent protein rsTagRFP. <i>Journal of Molecular Biology</i> , 2012 , 417, 144-51	6.5	31
21	Effects of benzo[a]pyrene-deoxyguanosine lesions on DNA methylation catalyzed by EcoRII DNA methyltransferase and on DNA cleavage effected by EcoRII restriction endonuclease. <i>Biochemistry</i> , 2005 , 44, 1054-66	3.2	26
20	A new design for a green calcium indicator with a smaller size and a reduced number of calcium-binding sites. <i>Scientific Reports</i> , 2016 , 6, 34447	4.9	26
19	Supercontinuum white light lasers for flow cytometry. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2009 , 75, 450-9	4.6	20
18	Near-Infrared Genetically Encoded Positive Calcium Indicator Based on GAF-FP Bacterial Phytochrome. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	17
17	Green fluorescent genetically encoded calcium indicator based on calmodulin/M13-peptide from fungi. <i>PLoS ONE</i> , 2017 , 12, e0183757	3.7	16
16	Novel Genetically Encoded Bright Positive Calcium Indicator NCaMP7 Based on the mNeonGreen Fluorescent Protein. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	14
15	Genetically encoded calcium indicator with NTnC-like design and enhanced fluorescence contrast and kinetics. <i>BMC Biotechnology</i> , 2018 , 18, 10	3.5	13
14	NTnC-like genetically encoded calcium indicator with a positive and enhanced response and fast kinetics. <i>Scientific Reports</i> , 2018 , 8, 15233	4.9	13
13	Slowly Reducible Genetically Encoded Green Fluorescent Indicator for In Vivo and Ex Vivo Visualization of Hydrogen Peroxide. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	11
12	Advances in Engineering and Application of Optogenetic Indicators for Neuroscience. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 562	2.6	10
11	FGCaMP7, an Improved Version of Fungi-Based Ratiometric Calcium Indicator for In Vivo Visualization of Neuronal Activity. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	9
10	Determination of two-photon photoactivation rates of fluorescent proteins. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 14868-72	3.6	5
9	DNA duplexes containing altered sugar residues as probes of EcoRII and MvaI endonuclease interactions with sugar-phosphate backbone. <i>Journal of Biomolecular Structure and Dynamics</i> , 2000 , 17, 857-70	3.6	5
8	Investigation of restriction endonuclease EcoRII complex with DNA in solution by FTIR spectroscopy. <i>Russian Journal of General Chemistry</i> , 2008 , 78, 1103-1109	0.7	3
7	The rotational order-disorder structure of the reversibly photoswitchable red fluorescent protein rsTagRFP. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014 , 70, 31-9		3
6	GAF-CaMP3-sfGFP, An Enhanced Version of the Near-Infrared Genetically Encoded Positive Phytochrome-Based Calcium Indicator for the Visualization of Neuronal Activity. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	3

5	The whither of bacteriophytochrome-based near-infrared fluorescent proteins: Insights from two-photon absorption spectroscopy. <i>Journal of Biophotonics</i> , 2019 , 12, e201800353	3.1	3
4	FRCaMP, a Red Fluorescent Genetically Encoded Calcium Indicator Based on Calmodulin from <i>Schizosaccharomyces Pombe</i> Fungus. <i>International Journal of Molecular Sciences</i> , 2020 , 22,	6.3	2
3	LSSmScarlet, dCyRFP2s, dCyOFP2s and CRISPRed2s, Genetically Encoded Red Fluorescent Proteins with a Large Stokes Shift. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
2	Rapid directed molecular evolution of fluorescent proteins in mammalian cells.. <i>Protein Science</i> , 2021 ,	6.3	1
1	Resolution of the EcoRII restriction endonuclease-DNA complex structure in solution using fluorescence spectroscopy. <i>Biophysical Chemistry</i> , 2008 , 138, 107-14	3.5	