

# Atsushi Miyawaki

## List of Publications by Year in descending order

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168  
papers

26,948  
citations

13827

67  
h-index

6979

154  
g-index

181  
all docs

181  
docs citations

181  
times ranked

31742  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluorescent indicators for Ca <sup>2+</sup> based on green fluorescent proteins and calmodulin. <i>Nature</i> , 1997, 388, 882-887.	13.7	3,053
2	A variant of yellow fluorescent protein with fast and efficient maturation for cell-biological applications. <i>Nature Biotechnology</i> , 2002, 20, 87-90.	9.4	2,518
3	Visualizing Spatiotemporal Dynamics of Multicellular Cell-Cycle Progression. <i>Cell</i> , 2008, 132, 487-498.	13.5	1,888
4	Whole-Brain Imaging with Single-Cell Resolution Using Chemical Cocktails and Computational Analysis. <i>Cell</i> , 2014, 157, 726-739.	13.5	1,097
5	Scale: a chemical approach for fluorescence imaging and reconstruction of transparent mouse brain. <i>Nature Neuroscience</i> , 2011, 14, 1481-1488.	7.1	1,096
6	Expanded dynamic range of fluorescent indicators for Ca <sup>2+</sup> by circularly permuted yellow fluorescent proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 10554-10559.	3.3	970
7	An optical marker based on the UV-induced green-to-red photoconversion of a fluorescent protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 12651-12656.	3.3	963
8	Regulated Fast Nucleocytoplasmic Shuttling Observed by Reversible Protein Highlighting. <i>Science</i> , 2004, 306, 1370-1373.	6.0	764
9	Rapid and persistent modulation of actin dynamics regulates postsynaptic reorganization underlying bidirectional plasticity. <i>Nature Neuroscience</i> , 2004, 7, 1104-1112.	7.1	728
10	Spatio-temporal images of growth-factor-induced activation of Ras and Rap1. <i>Nature</i> , 2001, 411, 1065-1068.	13.7	557
11	The Growing and Glowing Toolbox of Fluorescent and Photoactive Proteins. <i>Trends in Biochemical Sciences</i> , 2017, 42, 111-129.	3.7	514
12	ScaleS: an optical clearing palette for biological imaging. <i>Nature Neuroscience</i> , 2015, 18, 1518-1529.	7.1	511
13	A Sensitive and Quantitative Technique for Detecting Autophagic Events Based on Lysosomal Delivery. <i>Chemistry and Biology</i> , 2011, 18, 1042-1052.	6.2	507
14	Visualization of the Spatial and Temporal Dynamics of Intracellular Signaling. <i>Developmental Cell</i> , 2003, 4, 295-305.	3.1	475
15	Monitoring protein conformations and interactions by fluorescence resonance energy transfer between mutants of green fluorescent protein. <i>Methods in Enzymology</i> , 2000, 327, 472-500.	0.4	379
16	Semi-rational engineering of a coral fluorescent protein into an efficient highlighter. <i>EMBO Reports</i> , 2005, 6, 233-238.	2.0	320
17	Spontaneous network activity visualized by ultrasensitive Ca <sup>2+</sup> indicators, yellow Cameleon-Nano. <i>Nature Methods</i> , 2010, 7, 729-732.	9.0	319
18	Single-cell bioluminescence imaging of deep tissue in freely moving animals. <i>Science</i> , 2018, 359, 935-939.	6.0	319

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19	Cyan-emitting and orange-emitting fluorescent proteins as a donor/acceptor pair for fluorescence resonance energy transfer. <i>Biochemical Journal</i> , 2004, 381, 307-312.	1.7	312
20	A fluorescent variant of a protein from the stony coral <i>Montipora</i> facilitates dual-color single-laser fluorescence cross-correlation spectroscopy. <i>Nature Biotechnology</i> , 2006, 24, 577-581.	9.4	293
21	PKC Signaling Mediates Global Enhancement of Excitatory Synaptogenesis in Neurons Triggered by Local Contact with Astrocytes. <i>Neuron</i> , 2004, 41, 405-415.	3.8	286
22	Improving membrane voltage measurements using FRET with new fluorescent proteins. <i>Nature Methods</i> , 2008, 5, 683-685.	9.0	279
23	Photo-Induced Peptide Cleavage in the Green-to-Red Conversion of a Fluorescent Protein. <i>Molecular Cell</i> , 2003, 12, 1051-1058.	4.5	276
24	A Bilirubin-Inducible Fluorescent Protein from Eel Muscle. <i>Cell</i> , 2013, 153, 1602-1611.	13.5	269
25	Spatio-temporal activation of caspase revealed by indicator that is insensitive to environmental effects. <i>Journal of Cell Biology</i> , 2003, 160, 235-243.	2.3	268
26	SESN2/sestrin2 suppresses sepsis by inducing mitophagy and inhibiting NLRP3 activation in macrophages. <i>Autophagy</i> , 2016, 12, 1272-1291.	4.3	218
27	Functional Fluorescent Ca <sup>2+</sup> Indicator Proteins in Transgenic Mice under TET Control. <i>PLoS Biology</i> , 2004, 2, e163.	2.6	216
28	Red Fluorescent Protein from <i>Discosoma</i> as a Fusion Tag and a Partner for Fluorescence Resonance Energy Transfer. <i>Biochemistry</i> , 2001, 40, 2502-2510.	1.2	206
29	GFP-like Proteins Stably Accumulate in Lysosomes. <i>Cell Structure and Function</i> , 2008, 33, 1-12.	0.5	206
30	Illuminating cell-cycle progression in the developing zebrafish embryo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 20812-20817.	3.3	205
31	Development of Probes for Cellular Functions Using Fluorescent Proteins and Fluorescence Resonance Energy Transfer. <i>Annual Review of Biochemistry</i> , 2011, 80, 357-373.	5.0	204
32	FRET-based in vivo Ca <sup>2+</sup> imaging by a new calmodulin-GFP fusion molecule. <i>Nature Structural Biology</i> , 2001, 8, 1069-1073.	9.7	196
33	Identification of Mitochondrial DNA Polymorphisms That Alter Mitochondrial Matrix pH and Intracellular Calcium Dynamics. <i>PLoS Genetics</i> , 2006, 2, e128.	1.5	194
34	Visualization of an endogenous retinoic acid gradient across embryonic development. <i>Nature</i> , 2013, 496, 363-366.	13.7	190
35	A Green-emitting Fluorescent Protein from <i>Galaxeidae</i> Coral and Its Monomeric Version for Use in Fluorescent Labeling. <i>Journal of Biological Chemistry</i> , 2003, 278, 34167-34171.	1.6	177
36	mKikGR, a Monomeric Photoswitchable Fluorescent Protein. <i>PLoS ONE</i> , 2008, 3, e3944.	1.1	175

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37	Brain/MINDS: A Japanese National Brain Project for Marmoset Neuroscience. <i>Neuron</i> , 2016, 92, 582-590.	3.8	174
38	Lateral Propagation of EGF Signaling after Local Stimulation Is Dependent on Receptor Density. <i>Developmental Cell</i> , 2002, 3, 245-257.	3.1	170
39	Innovations in the Imaging of Brain Functions using Fluorescent Proteins. <i>Neuron</i> , 2005, 48, 189-199.	3.8	154
40	Optical recording of neuronal activity with a genetically-encoded calcium indicator in anesthetized and freely moving mice. <i>Frontiers in Neural Circuits</i> , 2010, 4, 9.	1.4	154
41	Light-dependent regulation of structural flexibility in a photochromic fluorescent protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 9227-9232.	3.3	150
42	A Stroboscopic Approach for Fast Photoactivation <sup>2</sup> Localization Microscopy with Dronpa Mutants. <i>Journal of the American Chemical Society</i> , 2007, 129, 13970-13977.	6.6	145
43	Visualization of Synaptic Ca <sup>2+</sup> /Calmodulin-Dependent Protein Kinase II Activity in Living Neurons. <i>Journal of Neuroscience</i> , 2005, 25, 3107-3112.	1.7	138
44	Tracking and quantification of dendritic cell migration and antigen trafficking between the skin and lymph nodes. <i>Scientific Reports</i> , 2014, 4, 6030.	1.6	138
45	Real-time tracking of cell cycle progression during CD8 <sup>+</sup> effector and memory T-cell differentiation. <i>Nature Communications</i> , 2015, 6, 6301.	5.8	138
46	Subdiffraction Imaging through the Selective Donut-Mode Depletion of Thermally Stable Photoswitchable Fluorophores: Numerical Analysis and Application to the Fluorescent Protein Dronpa. <i>Journal of the American Chemical Society</i> , 2007, 129, 16132-16141.	6.6	130
47	Proteins on the move: insights gained from fluorescent protein technologies. <i>Nature Reviews Molecular Cell Biology</i> , 2011, 12, 656-668.	16.1	122
48	Molecular Spies for Bioimaging <sup>2</sup> Fluorescent Protein-Based Probes. <i>Molecular Cell</i> , 2015, 58, 632-643.	4.5	122
49	Drug-induced cell cycle modulation leading to cell-cycle arrest, nuclear mis-segregation, or endoreplication. <i>BMC Cell Biology</i> , 2011, 12, 2.	3.0	121
50	A hypothalamic novelty signal modulates hippocampal memory. <i>Nature</i> , 2020, 586, 270-274.	13.7	121
51	Fluorescence imaging of physiological activity in complex systems using GFP-based probes. <i>Current Opinion in Neurobiology</i> , 2003, 13, 591-596.	2.0	117
52	Highlighted Generation of Fluorescence Signals Using Simultaneous Two-Color Irradiation on Dronpa Mutants. <i>Biophysical Journal</i> , 2007, 92, L97-L99.	0.2	116
53	<i>Fucci2a</i> : A bicistronic cell cycle reporter that allows Cre mediated tissue specific expression in mice. <i>Cell Cycle</i> , 2014, 13, 2681-2696.	1.3	113
54	HMGB1, a pathogenic molecule that induces neurite degeneration via TLR4-MARCKS, is a potential therapeutic target for Alzheimer's disease. <i>Scientific Reports</i> , 2016, 6, 31895.	1.6	111

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55	Single-Molecule Fluorescence Resonant Energy Transfer in Calcium Concentration Dependent Cameleon. <i>Journal of Physical Chemistry B</i> , 2000, 104, 3676-3682.	1.2	108
56	Fluorescent probes for superresolution imaging of lipid domains on the plasma membrane. <i>Chemical Science</i> , 2011, 2, 1548.	3.7	108
57	Genetically Encoded Tools for Optical Dissection of the Mammalian Cell Cycle. <i>Molecular Cell</i> , 2017, 68, 626-640.e5.	4.5	105
58	Rational Design of Photoconvertible and Biphotochromic Fluorescent Proteins for Advanced Microscopy Applications. <i>Chemistry and Biology</i> , 2011, 18, 1241-1251.	6.2	96
59	Local Apoptosis Modulates Early Mammalian Brain Development through the Elimination of Morphogen-Producing Cells. <i>Developmental Cell</i> , 2013, 27, 621-634.	3.1	92
60	Direct measurement of protein dynamics inside cells using a rationally designed photoconvertible protein. <i>Nature Methods</i> , 2008, 5, 339-345.	9.0	90
61	Brain/MINDS: brain-mapping project in Japan. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20140310.	1.8	89
62	Coupling delay controls synchronized oscillation in the segmentation clock. <i>Nature</i> , 2020, 580, 119-123.	13.7	89
63	Visualizing and Modulating Mitophagy for Therapeutic Studies of Neurodegeneration. <i>Cell</i> , 2020, 181, 1176-1187.e16.	13.5	89
64	Green Fluorescent Protein-like Proteins in Reef Anthozoa Animals.. <i>Cell Structure and Function</i> , 2002, 27, 343-347.	0.5	85
65	Crystallographic Evidence for Water-assisted Photo-induced Peptide Cleavage in the Stony Coral Fluorescent Protein Kaede. <i>Journal of Molecular Biology</i> , 2007, 372, 918-926.	2.0	81
66	Red fluorescent proteins: chromophore formation and cellular applications. <i>Current Opinion in Structural Biology</i> , 2012, 22, 679-688.	2.6	80
67	Space Radiation Biology for "Living in Space". <i>BioMed Research International</i> , 2020, 2020, 1-25.	0.9	75
68	Two-photon dual-color imaging using fluorescent proteins. <i>Nature Methods</i> , 2008, 5, 373-374.	9.0	69
69	Lighting up cells: labelling proteins with fluorophores. <i>Nature Cell Biology</i> , 2003, Suppl, S1-7.	4.6	69
70	A Cell/Cilia Cycle Biosensor for Single-Cell Kinetics Reveals Persistence of Cilia after G1/S Transition Is a General Property in Cells and Mice. <i>Developmental Cell</i> , 2018, 47, 509-523.e5.	3.1	66
71	A highly photostable and bright green fluorescent protein. <i>Nature Biotechnology</i> , 2022, 40, 1132-1142.	9.4	65
72	Engineering FRET Constructs Using CFP and YFP. <i>Methods in Cell Biology</i> , 2008, 85, 381-393.	0.5	62

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73	Bioluminescent system for dynamic imaging of cell and animal behavior. <i>Biochemical and Biophysical Research Communications</i> , 2012, 419, 188-193.	1.0	61
74	Mechanisms of protein fluorophore formation and engineering. <i>Current Opinion in Chemical Biology</i> , 2003, 7, 557-562.	2.8	60
75	Visualizing the cell-cycle progression of endothelial cells in zebrafish. <i>Developmental Biology</i> , 2014, 393, 10-23.	0.9	59
76	The E1 Mechanism in Photo-Induced $\beta^2$ -Elimination Reactions for Green-to-Red Conversion of Fluorescent Proteins. <i>Chemistry and Biology</i> , 2009, 16, 1140-1147.	6.2	56
77	Attenuation of photobleaching in two-photon excitation fluorescence from green fluorescent protein with shaped excitation pulses. <i>Biochemical and Biophysical Research Communications</i> , 2003, 311, 592-596.	1.0	55
78	Efficient induction of dopaminergic neuron differentiation from induced pluripotent stem cells reveals impaired mitophagy in PARK2 neurons. <i>Biochemical and Biophysical Research Communications</i> , 2017, 483, 88-93.	1.0	55
79	Structural Characterization of a Thiazoline-Containing Chromophore in an Orange Fluorescent Protein, Monomeric Kusabira Orange. <i>Biochemistry</i> , 2008, 47, 11573-11580.	1.2	53
80	Fluorescence imaging using a fluorescent protein with a large Stokes shift. <i>Methods</i> , 2008, 45, 223-226.	1.9	52
81	Primary Events of Photodynamics in Reversible Photoswitching Fluorescent Protein Dronpa. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 3328-3333.	2.1	51
82	Genetic visualization of protein interactions harnessing liquid phase transitions. <i>Scientific Reports</i> , 2017, 7, 46380.	1.6	51
83	Engrafted Neural Stem/Progenitor Cells Promote Functional Recovery through Synapse Reorganization with Spared Host Neurons after Spinal Cord Injury. <i>Stem Cell Reports</i> , 2015, 5, 264-277.	2.3	48
84	Novel In Vitro Protein Fragment Complementation Assay Applicable to High-Throughput Screening in a 1536-Well Format. <i>Journal of Biomolecular Screening</i> , 2009, 14, 970-979.	2.6	47
85	Higher resolution in localization microscopy by slower switching of a photochromic protein. <i>Photochemical and Photobiological Sciences</i> , 2010, 9, 239-248.	1.6	45
86	Engineering Fluorescent Proteins. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2005, 95, 1-15.	0.6	43
87	Excited States of Fluorescent Proteins, mKO and DsRed: Chromophore $\pi$ -Protein Electrostatic Interaction Behind the Color Variations. <i>Journal of Physical Chemistry B</i> , 2010, 114, 2971-2979.	1.2	43
88	A Diffraction-Quality Protein Crystal Processed as an Autophagic Cargo. <i>Molecular Cell</i> , 2015, 58, 186-193.	4.5	43
89	Quantitative comparison of genetically encoded Ca <sup>2+</sup> indicators in cortical pyramidal cells and cerebellar purkinje cells. <i>Frontiers in Cellular Neuroscience</i> , 2011, 5, 18.	1.8	42
90	Novel luciferase $\pi$ -opsin combinations for improved luminopsins. <i>Journal of Neuroscience Research</i> , 2020, 98, 410-421.	1.3	41

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91	Visualizing developmentally programmed endoreplication in mammals using ubiquitin oscillators. <i>Development (Cambridge)</i> , 2013, 140, 4624-4632.	1.2	39
92	Proliferation-coupled osteoclast differentiation by RANKL: Cell density as a determinant of osteoclast formation. <i>Bone</i> , 2015, 81, 392-399.	1.4	36
93	Involvement of Receptor Activator of Nuclear Factor- $\kappa$ B Ligand (RANKL)-induced Incomplete Cytokinesis in the Polyploidization of Osteoclasts. <i>Journal of Biological Chemistry</i> , 2016, 291, 3439-3454.	1.6	33
94	Time-lapse imaging of cell cycle dynamics during development in living cardiomyocyte. <i>Journal of Molecular and Cellular Cardiology</i> , 2014, 72, 241-249.	0.9	32
95	Gravity sensing in plant and animal cells. <i>Npj Microgravity</i> , 2021, 7, 2.	1.9	32
96	Intravital imaging of Ca <sup>2+</sup> signals in lymphocytes of Ca <sup>2+</sup> biosensor transgenic mice: indication of autoimmune diseases before the pathological onset. <i>Scientific Reports</i> , 2016, 6, 18738.	1.6	28
97	Controllable alignment of elongated microorganisms in 3D microspace using electrofluidic devices manufactured by hybrid femtosecond laser microfabrication. <i>Microsystems and Nanoengineering</i> , 2017, 3, 16078.	3.4	28
98	Green Fluorescent Protein Glows Gold. <i>Cell</i> , 2008, 135, 987-990.	13.5	27
99	Excitatory Neuronal Hubs Configure Multisensory Integration of Slow Waves in Association Cortex. <i>Cell Reports</i> , 2018, 22, 2873-2885.	2.9	27
100	Synthesis of Firefly Luciferin Analogues and Evaluation of the Luminescent Properties. <i>Chemistry - A European Journal</i> , 2016, 22, 9330-9337.	1.7	26
101	Fluorescent protein-based detection of unconjugated bilirubin in newborn serum. <i>Scientific Reports</i> , 2016, 6, 28489.	1.6	26
102	Fluorescence imaging in the last two decades. <i>Microscopy (Oxford, England)</i> , 2013, 62, 63-68.	0.7	25
103	Quantum yield improvement of red-light-emitting firefly luciferin analogues for in vivo bioluminescence imaging. <i>Tetrahedron</i> , 2018, 74, 652-660.	1.0	25
104	Confocal Imaging of Subcellular Ca <sup>2+</sup> Concentrations Using a Dual-Excitation Ratiometric Indicator Based on Green Fluorescent Protein. <i>Science Signaling</i> , 2002, 2002, pl4-pl4.	1.6	22
105	Genetically Encoded Voltage Indicators in Circulation Research. <i>International Journal of Molecular Sciences</i> , 2015, 16, 21626-21642.	1.8	22
106	Visualization of Probiotic-Mediated Ca <sup>2+</sup> Signaling in Intestinal Epithelial Cells In Vivo. <i>Frontiers in Immunology</i> , 2016, 7, 601.	2.2	22
107	Genetically Encoded Fluorescent Indicator GRAPHIC Delineates Intercellular Connections. <i>iScience</i> , 2019, 15, 28-38.	1.9	21
108	Fourier-transform spectroscopy combined with a 5-fs broadband pulse for multispectral nonlinear microscopy. <i>Physical Review A</i> , 2008, 77, .	1.0	20

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109	Toward bioluminescence in the near-infrared region: Tuning the emission wavelength of firefly luciferin analogues by allyl substitution. <i>Tetrahedron Letters</i> , 2018, 59, 1087-1090.	0.7	20
110	Development of cell-impermeable coelenterazine derivatives. <i>Chemical Science</i> , 2013, 4, 4395.	3.7	19
111	[7] Development of genetically encoded fluorescent indicators for calcium. <i>Methods in Enzymology</i> , 2003, 360, 202-225.	0.4	18
112	Differential Ras Activation between Caveolae/Raft and Non-Raft Microdomains. <i>Cell Structure and Function</i> , 2007, 32, 9-15.	0.5	18
113	Functional visualization of NK cell-mediated killing of metastatic single tumor cells. <i>ELife</i> , 2022, 11, .	2.8	18
114	APCCDH1 Targets MgcRacGAP for Destruction in the Late M Phase. <i>PLoS ONE</i> , 2013, 8, e63001.	1.1	17
115	A practical device for pinpoint delivery of molecules into multiple neurons in culture. <i>Brain Cell Biology</i> , 2006, 35, 229-237.	3.5	16
116	Live Imaging-Based Model Selection Reveals Periodic Regulation of the Stochastic G1/S Phase Transition in Vertebrate Axial Development. <i>PLoS Computational Biology</i> , 2014, 10, e1003957.	1.5	16
117	A dual-ligand-modulable fluorescent protein based on UnaG and calmodulin. <i>Biochemical and Biophysical Research Communications</i> , 2018, 496, 872-879.	1.0	16
118	Diffusion of Large Molecules into Assembling Nuclei Revealed Using an Optical Highlighting Technique. <i>Biophysical Journal</i> , 2009, 97, 1288-1294.	0.2	15
119	Molecular basis of photochromism of a fluorescent protein revealed by direct <sup>13</sup> C detection under laser illumination. <i>Journal of Biomolecular NMR</i> , 2010, 48, 237-246.	1.6	15
120	Nonlinear Optical Microscopy and Spectroscopy Employing Octave Spanning Pulses. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 767-780.	1.9	15
121	Development of near-infrared firefly luciferin analogue reacted with wild-type and mutant luciferases. <i>Chirality</i> , 2020, 32, 922-931.	1.3	14
122	DHODH inhibition synergizes with DNA-demethylating agents in the treatment of myelodysplastic syndromes. <i>Blood Advances</i> , 2021, 5, 438-450.	2.5	14
123	Brain clearing for connectomics. <i>Microscopy (Oxford, England)</i> , 2015, 64, 5-8.	0.7	13
124	Two Distinct Fluorescence States of the Ligand-Induced Green Fluorescent Protein UnaG. <i>Biophysical Journal</i> , 2017, 113, 2805-2814.	0.2	13
125	Apoptosis induction-related cytosolic calcium responses revealed by the dual FRET imaging of calcium signals and caspase-3 activation in a single cell. <i>Biochemical and Biophysical Research Communications</i> , 2015, 460, 82-87.	1.0	12
126	Bringing bioluminescence into the picture. <i>Nature Methods</i> , 2007, 4, 616-617.	9.0	11



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127	High-resolution fluorescence microscopy based on a cyclic sequential multiphoton process. <i>Biomedical Optics Express</i> , 2010, 1, 791.	1.5	11
128	Fucci-guided purification of hematopoietic stem cells with high repopulating activity. <i>Biochemical and Biophysical Research Communications</i> , 2015, 457, 7-11.	1.0	11
129	A spherical aberration-free microscopy system for live brain imaging. <i>Biochemical and Biophysical Research Communications</i> , 2018, 500, 236-241.	1.0	11
130	Fast dual-excitation ratiometry with light-emitting diodes and high-speed liquid crystal shutters. <i>Biochemical and Biophysical Research Communications</i> , 2006, 340, 250-255.	1.0	10
131	Development of microscopic systems for high-speed dual-excitation ratiometric Ca <sup>2+</sup> imaging. <i>Brain Cell Biology</i> , 2008, 36, 43-52.	3.5	10
132	Exploiting the cyanobacterial light-harvesting machinery for developing fluorescent probes. <i>Nature Methods</i> , 2016, 13, 729-730.	9.0	10
133	Memorizing spatiotemporal patterns. <i>Nature Chemical Biology</i> , 2007, 3, 598-601.	3.9	9
134	Simultaneous dual-excitation ratiometry using orthogonal linear polarized lights. <i>Biochemical and Biophysical Research Communications</i> , 2004, 317, 77-83.	1.0	8
135	Efficacy of the novel tubulin polymerization inhibitor PTC <sup>28</sup> for myelodysplastic syndrome. <i>Cancer Science</i> , 2020, 111, 4336-4347.	1.7	8
136	Distributed sensory coding by cerebellar complex spikes in units of cortical segments. <i>Cell Reports</i> , 2021, 37, 109966.	2.9	8
137	Tracking of Normal and Malignant Progenitor Cell Cycle Transit in a Defined Niche. <i>Scientific Reports</i> , 2016, 6, 23885.	1.6	7
138	Photoconvertible Behavior of LSSmOrange Applicable for Single Emission Band Optical Highlighting. <i>Biophysical Journal</i> , 2016, 111, 1014-1025.	0.2	7
139	Analysis of cardiomyocyte movement in the developing murine heart. <i>Biochemical and Biophysical Research Communications</i> , 2015, 464, 1000-1007.	1.0	6
140	G9a-dependent histone methylation can be induced in G1 phase of cell cycle. <i>Scientific Reports</i> , 2019, 9, 956.	1.6	6
141	Engineering a genetically-encoded SHG chromophore by electrostatic targeting to the membrane. <i>Frontiers in Molecular Neuroscience</i> , 2014, 7, 93.	1.4	5
142	Simultaneous imaging of multiple cellular events using high-accuracy fluorescence polarization microscopy. <i>Microscopy (Oxford, England)</i> , 2017, 66, 110-119.	0.7	5
143	Voices in methods development. <i>Nature Methods</i> , 2019, 16, 945-951.	9.0	5
144	Electric-field control of fluorescence protein emissions at the metal-solution interface. <i>Applied Physics Express</i> , 2019, 12, 067001.	1.1	4

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145	Development of Phenyl Oligoene-type Firefly Luciferin Analogues with Extended $\pi$ -Electronic Conjugation for Near-infrared Bioluminescence. <i>Chemistry Letters</i> , 2021, 50, 1523-1525.	0.7	3
146	Interface-specific mode of protonation $\leftrightarrow$ deprotonation reactions underlies the cathodic modulation of fluorescence protein emission. <i>Applied Physics Express</i> , 2020, 13, 127001.	1.1	3
147	A poly(dimethylsiloxane)-based device enabling time-lapse imaging with high spatial resolution. <i>Biochemical and Biophysical Research Communications</i> , 2010, 392, 307-310.	1.0	2
148	Software for precise tracking of cell proliferation. <i>Biochemical and Biophysical Research Communications</i> , 2012, 417, 1080-1085.	1.0	2
149	Extending Whole Slide Imaging: Color Darkfield Internal Reflection Illumination (DIRI) for Biological Applications. <i>PLoS ONE</i> , 2017, 12, e0167774.	1.1	2
150	Data on peptidyl platform-based anticancer drug synthesis and triton-x-based micellar clusters (MCs) self-assembly peculiarities for enhanced solubilization, encapsulation of hydrophobic compounds and their interaction with HeLa cells. <i>Data in Brief</i> , 2019, 25, 104052.	0.5	2
151	Great Expectations. <i>Science</i> , 2009, 326, 339-339.	6.0	1
152	Editorial overview: Molecular imaging: Cellular imaging approaches. <i>Current Opinion in Chemical Biology</i> , 2015, 27, v-vi.	2.8	1
153	On-site Monitoring of Postoperative Bile Leakage Using Bilirubin-inducible Fluorescent Protein. <i>World Journal of Surgery</i> , 2020, 44, 4245-4253.	0.8	1
154	New Fluorescent Probes and New Perspectives in Bioscience. , 2006, , .		0
155	2P510 Permeability change of the nuclear envelope(52. Bio-imaging,Poster Session,Abstract,Meeting) Tj ETQq1 1 0.784314 rgBT /Overl	0.0	0
156	2P517 Simultaneous dual-excitation ratiometry with light emitting diodes and high-speed liquid crystal shutters(52. Bio-imaging,Poster Session,Abstract,Meeting Program of EABS & BSJ 2006). <i>Seibutsu Butsuri</i> , 2006, 46, S425.	0.0	0
157	2P520 Optical imaging of calcium transients in the muscle of ascidian larva(52. Bio-imaging,Poster) Tj ETQq1 1 0.784314 rgBT /Overl	0.0	0
158	2P524 Dual-color fluorescence cross-correlation spectroscopy using Keima and a fluorescence protein(52. Bio-imaging,Poster Session,Abstract,Meeting Program of EABS & BSJ 2006). <i>Seibutsu Butsuri</i> , 2006, 46, S426.	0.0	0
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