

Atsushi Miyawaki

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2716228/publications.pdf>

Version: 2024-02-01

168
papers

26,948
citations

13865

67
h-index

6996

154
g-index

181
all docs

181
docs citations

181
times ranked

31742
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional visualization of NK cell-mediated killing of metastatic single tumor cells. <i>ELife</i> , 2022, 11, .	6.0	18
2	Fringe- and speckle-free holographic patterned illumination using time-multiplexed temporal focusing. <i>Applied Physics Express</i> , 2022, 15, 042005.	2.4	0
3	A highly photostable and bright green fluorescent protein. <i>Nature Biotechnology</i> , 2022, 40, 1132-1142.	17.5	65
4	Gravity sensing in plant and animal cells. <i>Npj Microgravity</i> , 2021, 7, 2.	3.7	32
5	Development of Phenyl Oligoene-type Firefly Luciferin Analogues with Extended π -Electronic Conjugation for Near-infrared Bioluminescence. <i>Chemistry Letters</i> , 2021, 50, 1523-1525.	1.3	3
6	DHODH inhibition synergizes with DNA-demethylating agents in the treatment of myelodysplastic syndromes. <i>Blood Advances</i> , 2021, 5, 438-450.	5.2	14
7	Distributed sensory coding by cerebellar complex spikes in units of cortical segments. <i>Cell Reports</i> , 2021, 37, 109966.	6.4	8
8	Novel luciferase-opsin combinations for improved luminopsins. <i>Journal of Neuroscience Research</i> , 2020, 98, 410-421.	2.9	41
9	Coupling delay controls synchronized oscillation in the segmentation clock. <i>Nature</i> , 2020, 580, 119-123.	27.8	89
10	A hypothalamic novelty signal modulates hippocampal memory. <i>Nature</i> , 2020, 586, 270-274.	27.8	121
11	On-site Monitoring of Postoperative Bile Leakage Using Bilirubin-inducible Fluorescent Protein. <i>World Journal of Surgery</i> , 2020, 44, 4245-4253.	1.6	1
12	Efficacy of the novel tubulin polymerization inhibitor PTC028 for myelodysplastic syndrome. <i>Cancer Science</i> , 2020, 111, 4336-4347.	3.9	8
13	Development of near-infrared firefly luciferin analogue reacted with wild-type and mutant luciferases. <i>Chirality</i> , 2020, 32, 922-931.	2.6	14
14	Space Radiation Biology for "Living in Space". <i>BioMed Research International</i> , 2020, 2020, 1-25.	1.9	75
15	Visualizing and Modulating Mitophagy for Therapeutic Studies of Neurodegeneration. <i>Cell</i> , 2020, 181, 1176-1187.e16.	28.9	89
16	Interface-specific mode of protonation-deprotonation reactions underlies the cathodic modulation of fluorescence protein emission. <i>Applied Physics Express</i> , 2020, 13, 127001.	2.4	3
17	An Example of R&D with RIKEN CBS-OLYMPUS Collaboration Center (BOCC). <i>The Brain & Neural Networks</i> , 2020, 27, 20-27.	0.1	0
18	G9a-dependent histone methylation can be induced in G1 phase of cell cycle. <i>Scientific Reports</i> , 2019, 9, 956.	3.3	6

#	ARTICLE	IF	CITATIONS
19	Genetically Encoded Fluorescent Indicator GRAPHIC Delineates Intercellular Connections. <i>IScience</i> , 2019, 15, 28-38.	4.1	21
20	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.	1.0	2
21	Electric-field control of fluorescence protein emissions at the metal-solution interface. <i>Applied Physics Express</i> , 2019, 12, 067001.	2.4	4
22	Voices in methods development. <i>Nature Methods</i> , 2019, 16, 945-951.	19.0	5
23	Single-cell bioluminescence imaging of deep tissue in freely moving animals. <i>Science</i> , 2018, 359, 935-939.	12.6	319
24	A spherical aberration-free microscopy system for live brain imaging. <i>Biochemical and Biophysical Research Communications</i> , 2018, 500, 236-241.	2.1	11
25	A dual-ligand-modulable fluorescent protein based on UnaG and calmodulin. <i>Biochemical and Biophysical Research Communications</i> , 2018, 496, 872-879.	2.1	16
26	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.	1.4	20
27	Excitatory Neuronal Hubs Configure Multisensory Integration of Slow Waves in Association Cortex. <i>Cell Reports</i> , 2018, 22, 2873-2885.	6.4	27
28	Quantum yield improvement of red-light-emitting firefly luciferin analogues for in vivo bioluminescence imaging. <i>Tetrahedron</i> , 2018, 74, 652-660.	1.9	25
29	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.	7.0	66
30	Genetically encoded tools based on luminescent proteins. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018, WCP2018, SY82-1.	0.0	0
31	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.	2.1	55
32	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.	7.0	28
33	Genetic visualization of protein interactions harnessing liquid phase transitions. <i>Scientific Reports</i> , 2017, 7, 46380.	3.3	51
34	Simultaneous imaging of multiple cellular events using high-accuracy fluorescence polarization microscopy. <i>Microscopy (Oxford, England)</i> , 2017, 66, 110-119.	1.5	5
35	Genetically Encoded Tools for Optical Dissection of the Mammalian Cell Cycle. <i>Molecular Cell</i> , 2017, 68, 626-640.e5.	9.7	105
36	The Growing and Glowing Toolbox of Fluorescent and Photoactive Proteins. <i>Trends in Biochemical Sciences</i> , 2017, 42, 111-129.	7.5	514

#	ARTICLE	IF	CITATIONS
37	Two Distinct Fluorescence States of the Ligand-Induced Green Fluorescent Protein UnaG. <i>Biophysical Journal</i> , 2017, 113, 2805-2814.	0.5	13
38	Extending Whole Slide Imaging: Color Darkfield Internal Reflection Illumination (DIRI) for Biological Applications. <i>PLoS ONE</i> , 2017, 12, e0167774.	2.5	2
39	Visualization of Probiotic-Mediated Ca ²⁺ Signaling in Intestinal Epithelial Cells In Vivo. <i>Frontiers in Immunology</i> , 2016, 7, 601.	4.8	22
40	Synthesis of Firefly Luciferin Analogues and Evaluation of the Luminescent Properties. <i>Chemistry - A European Journal</i> , 2016, 22, 9330-9337.	3.3	26
41	Intravital imaging of Ca ²⁺ signals in lymphocytes of Ca ²⁺ biosensor transgenic mice: indication of autoimmune diseases before the pathological onset. <i>Scientific Reports</i> , 2016, 6, 18738.	3.3	28
42	Tracking of Normal and Malignant Progenitor Cell Cycle Transit in a Defined Niche. <i>Scientific Reports</i> , 2016, 6, 23885.	3.3	7
43	Photoconvertible Behavior of LSSmOrange Applicable for Single Emission Band Optical Highlighting. <i>Biophysical Journal</i> , 2016, 111, 1014-1025.	0.5	7
44	Roger Y. Tsien (1952–2016). <i>Cell</i> , 2016, 167, 298-300.	28.9	0
45	Exploiting the cyanobacterial light-harvesting machinery for developing fluorescent probes. <i>Nature Methods</i> , 2016, 13, 729-730.	19.0	10
46	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.	3.3	111
47	Fluorescent protein-based detection of unconjugated bilirubin in newborn serum. <i>Scientific Reports</i> , 2016, 6, 28489.	3.3	26
48	Brain/MINDS: A Japanese National Brain Project for Marmoset Neuroscience. <i>Neuron</i> , 2016, 92, 582-590.	8.1	174
49	Green to Red Photo-convertible Fluorescence Proteins and in-vivo Crystallization. <i>Seibutsu Butsuri</i> , 2016, 56, 337-339.	0.1	0
50	SESN2/sestrin2 suppresses sepsis by inducing mitophagy and inhibiting NLRP3 activation in macrophages. <i>Autophagy</i> , 2016, 12, 1272-1291.	9.1	218
51	Involvement of Receptor Activator of Nuclear Factor- κ B Ligand (RANKL)-induced Incomplete Cytokinesis in the Polyploidization of Osteoclasts. <i>Journal of Biological Chemistry</i> , 2016, 291, 3439-3454.	3.4	33
52	I-2. A bilirubin-inducible fluorescent protein from eel muscle. <i>Nippon Suisan Gakkaishi</i> , 2015, 81, 730-730.	0.1	0
53	Genetically Encoded Voltage Indicators in Circulation Research. <i>International Journal of Molecular Sciences</i> , 2015, 16, 21626-21642.	4.1	22
54	Molecular Spies for Bioimaging—Fluorescent Protein-Based Probes. <i>Molecular Cell</i> , 2015, 58, 632-643.	9.7	122

#	ARTICLE	IF	CITATIONS
55	A Diffraction-Quality Protein Crystal Processed as an Autophagic Cargo. <i>Molecular Cell</i> , 2015, 58, 186-193.	9.7	43
56	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.	4.8	48
57	Fucci-guided purification of hematopoietic stem cells with high repopulating activity. <i>Biochemical and Biophysical Research Communications</i> , 2015, 457, 7-11.	2.1	11
58	Real-time tracking of cell cycle progression during CD8+ effector and memory T-cell differentiation. <i>Nature Communications</i> , 2015, 6, 6301.	12.8	138
59	Analysis of cardiomyocyte movement in the developing murine heart. <i>Biochemical and Biophysical Research Communications</i> , 2015, 464, 1000-1007.	2.1	6
60	Brain/MINDS: brain-mapping project in Japan. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20140310.	4.0	89
61	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.	2.1	12
62	Brain clearing for connectomics. <i>Microscopy (Oxford, England)</i> , 2015, 64, 5-8.	1.5	13
63	Proliferation-coupled osteoclast differentiation by RANKL: Cell density as a determinant of osteoclast formation. <i>Bone</i> , 2015, 81, 392-399.	2.9	36
64	Editorial overview: Molecular imaging: Cellular imaging approaches. <i>Current Opinion in Chemical Biology</i> , 2015, 27, v-vi.	6.1	1
65	ScaleS: an optical clearing palette for biological imaging. <i>Nature Neuroscience</i> , 2015, 18, 1518-1529.	14.8	511
66	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.	3.2	16
67	<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.	2.6	113
68	Whole-Brain Imaging with Single-Cell Resolution Using Chemical Cocktails and Computational Analysis. <i>Cell</i> , 2014, 157, 726-739.	28.9	1,097
69	Time-lapse imaging of cell cycle dynamics during development in living cardiomyocyte. <i>Journal of Molecular and Cellular Cardiology</i> , 2014, 72, 241-249.	1.9	32
70	Visualizing the cell-cycle progression of endothelial cells in zebrafish. <i>Developmental Biology</i> , 2014, 393, 10-23.	2.0	59
71	Engineering a genetically-encoded SHG chromophore by electrostatic targeting to the membrane. <i>Frontiers in Molecular Neuroscience</i> , 2014, 7, 93.	2.9	5
72	Tracking and quantification of dendritic cell migration and antigen trafficking between the skin and lymph nodes. <i>Scientific Reports</i> , 2014, 4, 6030.	3.3	138

#	ARTICLE	IF	CITATIONS
73	Development of cell-impermeable coelenterazine derivatives. <i>Chemical Science</i> , 2013, 4, 4395.	7.4	19
74	Fluorescence imaging in the last two decades. <i>Microscopy (Oxford, England)</i> , 2013, 62, 63-68.	1.5	25
75	Local Apoptosis Modulates Early Mammalian Brain Development through the Elimination of Morphogen-Producing Cells. <i>Developmental Cell</i> , 2013, 27, 621-634.	7.0	92
76	Visualization of an endogenous retinoic acid gradient across embryonic development. <i>Nature</i> , 2013, 496, 363-366.	27.8	190
77	A Bilirubin-Inducible Fluorescent Protein from Eel Muscle. <i>Cell</i> , 2013, 153, 1602-1611.	28.9	269
78	Visualizing developmentally programmed endoreplication in mammals using ubiquitin oscillators. <i>Development (Cambridge)</i> , 2013, 140, 4624-4632.	2.5	39
79	APCCDH1 Targets MgcRacGAP for Destruction in the Late M Phase. <i>PLoS ONE</i> , 2013, 8, e63001.	2.5	17
80	Software for precise tracking of cell proliferation. <i>Biochemical and Biophysical Research Communications</i> , 2012, 417, 1080-1085.	2.1	2
81	Bioluminescent system for dynamic imaging of cell and animal behavior. <i>Biochemical and Biophysical Research Communications</i> , 2012, 419, 188-193.	2.1	61
82	Red fluorescent proteins: chromophore formation and cellular applications. <i>Current Opinion in Structural Biology</i> , 2012, 22, 679-688.	5.7	80
83	Fluorescent probes for superresolution imaging of lipid domains on the plasma membrane. <i>Chemical Science</i> , 2011, 2, 1548.	7.4	108
84	Development of Probes for Cellular Functions Using Fluorescent Proteins and Fluorescence Resonance Energy Transfer. <i>Annual Review of Biochemistry</i> , 2011, 80, 357-373.	11.1	204
85	Quantitative comparison of genetically encoded Ca ²⁺ indicators in cortical pyramidal cells and cerebellar purkinje cells. <i>Frontiers in Cellular Neuroscience</i> , 2011, 5, 18.	3.7	42
86	Proteins on the move: insights gained from fluorescent protein technologies. <i>Nature Reviews Molecular Cell Biology</i> , 2011, 12, 656-668.	37.0	122
87	A Sensitive and Quantitative Technique for Detecting Autophagic Events Based on Lysosomal Delivery. <i>Chemistry and Biology</i> , 2011, 18, 1042-1052.	6.0	507
88	Rational Design of Photoconvertible and Biphotochromic Fluorescent Proteins for Advanced Microscopy Applications. <i>Chemistry and Biology</i> , 2011, 18, 1241-1251.	6.0	96
89	Scale: a chemical approach for fluorescence imaging and reconstruction of transparent mouse brain. <i>Nature Neuroscience</i> , 2011, 14, 1481-1488.	14.8	1,096
90	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

#	ARTICLE	IF	CITATIONS
91	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.	2.8	154
92	Molecular basis of photochromism of a fluorescent protein revealed by direct ¹³ C detection under laser illumination. <i>Journal of Biomolecular NMR</i> , 2010, 48, 237-246.	2.8	15
93	Nonlinear Optical Microscopy and Spectroscopy Employing Octave Spanning Pulses. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 767-780.	2.9	15
94	Spontaneous network activity visualized by ultrasensitive Ca ²⁺ indicators, yellow Cameleon-Nano. <i>Nature Methods</i> , 2010, 7, 729-732.	19.0	319
95	Excited States of Fluorescent Proteins, mKO and DsRed: Chromophore ⁺ Protein Electrostatic Interaction Behind the Color Variations. <i>Journal of Physical Chemistry B</i> , 2010, 114, 2971-2979.	2.6	43
96	Higher resolution in localization microscopy by slower switching of a photochromic protein. <i>Photochemical and Photobiological Sciences</i> , 2010, 9, 239-248.	2.9	45
97	High-resolution fluorescence microscopy based on a cyclic sequential multiphoton process. <i>Biomedical Optics Express</i> , 2010, 1, 791.	2.9	11
98	A poly(dimethylsiloxane)-based device enabling time-lapse imaging with high spatial resolution. <i>Biochemical and Biophysical Research Communications</i> , 2010, 392, 307-310.	2.1	2
99	Primary Events of Photodynamics in Reversible Photoswitching Fluorescent Protein Dronpa. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 3328-3333.	4.6	51
100	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.	7.1	205
101	Great Expectations. <i>Science</i> , 2009, 326, 339-339.	12.6	1
102	The E1 Mechanism in Photo-Induced ¹ I ² -Elimination Reactions for Green-to-Red Conversion of Fluorescent Proteins. <i>Chemistry and Biology</i> , 2009, 16, 1140-1147.	6.0	56
103	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
104	Diffusion of Large Molecules into Assembling Nuclei Revealed Using an Optical Highlighting Technique. <i>Biophysical Journal</i> , 2009, 97, 1288-1294.	0.5	15
105	Development of microscopic systems for high-speed dual-excitation ratiometric Ca ²⁺ imaging. <i>Brain Cell Biology</i> , 2008, 36, 43-52.	3.2	10
106	Direct measurement of protein dynamics inside cells using a rationally designed photoconvertible protein. <i>Nature Methods</i> , 2008, 5, 339-345.	19.0	90
107	Improving membrane voltage measurements using FRET with new fluorescent proteins. <i>Nature Methods</i> , 2008, 5, 683-685.	19.0	279
108	Two-photon dual-color imaging using fluorescent proteins. <i>Nature Methods</i> , 2008, 5, 373-374.	19.0	69

#	ARTICLE	IF	CITATIONS
109	Fluorescence imaging using a fluorescent protein with a large Stokes shift. <i>Methods</i> , 2008, 45, 223-226.	3.8	52
110	Visualizing Spatiotemporal Dynamics of Multicellular Cell-Cycle Progression. <i>Cell</i> , 2008, 132, 487-498.	28.9	1,888
111	Green Fluorescent Protein Glows Gold. <i>Cell</i> , 2008, 135, 987-990.	28.9	27
112	Structural Characterization of a Thiazoline-Containing Chromophore in an Orange Fluorescent Protein, Monomeric Kusabira Orange. <i>Biochemistry</i> , 2008, 47, 11573-11580.	2.5	53
113	Engineering FRET Constructs Using CFP and YFP. <i>Methods in Cell Biology</i> , 2008, 85, 381-393.	1.1	62
114	Fourier-transform spectroscopy combined with a 5-fs broadband pulse for multispectral nonlinear microscopy. <i>Physical Review A</i> , 2008, 77, .	2.5	20
115	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.	7.1	150
116	2P-322 Passive diffusion of large molecules into nuclei revealed using an optical highlighting technique(The 46th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2008, 48, S124.	0.1	0
117	GFP-like Proteins Stably Accumulate in Lysosomes. <i>Cell Structure and Function</i> , 2008, 33, 1-12.	1.1	206
118	mKikGR, a Monomeric Photoswitchable Fluorescent Protein. <i>PLoS ONE</i> , 2008, 3, e3944.	2.5	175
119	Fourier-transform Spectroscopic Technique for Multi-spectral Nonlinear Microscopy Using a 5-fs Broadband Light Source. <i>The Review of Laser Engineering</i> , 2008, 36, 1335-1338.	0.0	0
120	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.	4.2	81
121	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.	13.7	130
122	Highlighted Generation of Fluorescence Signals Using Simultaneous Two-Color Irradiation on Dronpa Mutants. <i>Biophysical Journal</i> , 2007, 92, L97-L99.	0.5	116
123	A Stroboscopic Approach for Fast Photoactivation~Localization Microscopy with Dronpa Mutants. <i>Journal of the American Chemical Society</i> , 2007, 129, 13970-13977.	13.7	145
124	Differential Ras Activation between Caveolae/Raft and Non-Raft Microdomains. <i>Cell Structure and Function</i> , 2007, 32, 9-15.	1.1	18
125	Memorizing spatiotemporal patterns. <i>Nature Chemical Biology</i> , 2007, 3, 598-601.	8.0	9
126	Bringing bioluminescence into the picture. <i>Nature Methods</i> , 2007, 4, 616-617.	19.0	11

#	ARTICLE	IF	CITATIONS
127	New Fluorescent Probes and New Perspectives in Bioscience. , 2006, , .		0
128	Fast dual-excitation ratiometry with light-emitting diodes and high-speed liquid crystal shutters. Biochemical and Biophysical Research Communications, 2006, 340, 250-255.	2.1	10
129	2P510 Permeability change of the nuclear envelope(52. Bio-imaging,Poster Session,Abstract,Meeting) Tj ETQq1 1 0.784314 rgBT /Over	0.1	0
130	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). Seibutsu Butsurei, 2006, 46, S425.	0.1	0
131	2P520 Optical imaging of calcium transients in the muscle of ascidian larva(52. Bio-imaging,Poster) Tj ETQq1 1 0.784314 rgBT /Over	0.1	0
132	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). Seibutsu Butsurei, 2006, 46, S426.	0.1	0
133	A fluorescent variant of a protein from the stony coral Montipora facilitates dual-color single-laser fluorescence cross-correlation spectroscopy. Nature Biotechnology, 2006, 24, 577-581.	17.5	293
134	A practical device for pinpoint delivery of molecules into multiple neurons in culture. Brain Cell Biology, 2006, 35, 229-237.	3.2	16
135	Identification of Mitochondrial DNA Polymorphisms That Alter Mitochondrial Matrix pH and Intracellular Calcium Dynamics. PLoS Genetics, 2006, 2, e128.	3.5	194
136	Semi-rational engineering of a coral fluorescent protein into an efficient highlighter. EMBO Reports, 2005, 6, 233-238.	4.5	320
137	Visualization of Synaptic Ca ²⁺ /Calmodulin-Dependent Protein Kinase II Activity in Living Neurons. Journal of Neuroscience, 2005, 25, 3107-3112.	3.6	138
138	Innovations in the Imaging of Brain Functions using Fluorescent Proteins. Neuron, 2005, 48, 189-199.	8.1	154
139	Engineering Fluorescent Proteins. Advances in Biochemical Engineering/Biotechnology, 2005, 95, 1-15.	1.1	43
140	Cyan-emitting and orange-emitting fluorescent proteins as a donor/acceptor pair for fluorescence resonance energy transfer. Biochemical Journal, 2004, 381, 307-312.	3.7	312
141	Rapid and persistent modulation of actin dynamics regulates postsynaptic reorganization underlying bidirectional plasticity. Nature Neuroscience, 2004, 7, 1104-1112.	14.8	728
142	Expanded dynamic range of fluorescent indicators for Ca ²⁺ by circularly permuted yellow fluorescent proteins. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 10554-10559.	7.1	970
143	Regulated Fast Nucleocytoplasmic Shuttling Observed by Reversible Protein Highlighting. Science, 2004, 306, 1370-1373.	12.6	764
144	Functional Fluorescent Ca ²⁺ Indicator Proteins in Transgenic Mice under TET Control. PLoS Biology, 2004, 2, e163.	5.6	216

#	ARTICLE	IF	CITATIONS
145	Simultaneous dual-excitation ratiometry using orthogonal linear polarized lights. <i>Biochemical and Biophysical Research Communications</i> , 2004, 317, 77-83.	2.1	8
146	PKC Signaling Mediates Global Enhancement of Excitatory Synaptogenesis in Neurons Triggered by Local Contact with Astrocytes. <i>Neuron</i> , 2004, 41, 405-415.	8.1	286
147	The Spatial and Temporal Dynamics of Intracellular Signaling. <i>Seibutsu Butsuri</i> , 2004, 44, 276-280.	0.1	0
148	Fluorescence imaging of physiological activity in complex systems using GFP-based probes. <i>Current Opinion in Neurobiology</i> , 2003, 13, 591-596.	4.2	117
149	Mechanisms of protein fluorophore formation and engineering. <i>Current Opinion in Chemical Biology</i> , 2003, 7, 557-562.	6.1	60
150	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.	2.1	55
151	Photo-Induced Peptide Cleavage in the Green-to-Red Conversion of a Fluorescent Protein. <i>Molecular Cell</i> , 2003, 12, 1051-1058.	9.7	276
152	Visualization of the Spatial and Temporal Dynamics of Intracellular Signaling. <i>Developmental Cell</i> , 2003, 4, 295-305.	7.0	475
153	A Green-emitting Fluorescent Protein from Galaxeidae Coral and Its Monomeric Version for Use in Fluorescent Labeling. <i>Journal of Biological Chemistry</i> , 2003, 278, 34167-34171.	3.4	177
154	Spatio-temporal activation of caspase revealed by indicator that is insensitive to environmental effects. <i>Journal of Cell Biology</i> , 2003, 160, 235-243.	5.2	268
155	[7] Development of genetically encoded fluorescent indicators for calcium. <i>Methods in Enzymology</i> , 2003, 360, 202-225.	1.0	18
156	Lighting up cells: labelling proteins with fluorophores. <i>Nature Cell Biology</i> , 2003, Suppl, S1-7.	10.3	69
157	Confocal Imaging of Subcellular Ca ²⁺ Concentrations Using a Dual-Excitation Ratiometric Indicator Based on Green Fluorescent Protein. <i>Science Signaling</i> , 2002, 2002, pl4-pl4.	3.6	22
158	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.	7.1	963
159	Lateral Propagation of EGF Signaling after Local Stimulation Is Dependent on Receptor Density. <i>Developmental Cell</i> , 2002, 3, 245-257.	7.0	170
160	Green Fluorescent Protein-like Proteins in Reef Anthozoa Animals.. <i>Cell Structure and Function</i> , 2002, 27, 343-347.	1.1	85
161	A variant of yellow fluorescent protein with fast and efficient maturation for cell-biological applications. <i>Nature Biotechnology</i> , 2002, 20, 87-90.	17.5	2,518
162	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.	2.5	206

#	ARTICLE	IF	CITATIONS
163	FRET-based in vivo Ca ²⁺ imaging by a new calmodulin-GFP fusion molecule. <i>Nature Structural Biology</i> , 2001, 8, 1069-1073.	9.7	196
164	Spatio-temporal images of growth-factor-induced activation of Ras and Rap1. <i>Nature</i> , 2001, 411, 1065-1068.	27.8	557
165	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.	1.0	379
166	Single-Molecule Fluorescence Resonant Energy Transfer in Calcium Concentration Dependent Cameleon. <i>Journal of Physical Chemistry B</i> , 2000, 104, 3676-3682.	2.6	108
167	Green Fluorescent Protein-based Probes.. <i>Seibutsu Butsuri</i> , 2000, 40, 83-88.	0.1	0
168	Fluorescent indicators for Ca ²⁺ -based on green fluorescent proteins and calmodulin. <i>Nature</i> , 1997, 388, 882-887.	27.8	3,053