Takeharu Nagai

List of Publications by Year
in descending order

219	17,893	26630 56	14208 128
papers	citations	h-index	g-index

231	231	231	22352
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Live Imaging of cAMP Signaling in D. discoideum Based on a Bioluminescent Indicator, Nano-lantern (cAMP). Methods in Molecular Biology, 2022, 2483, 231-240.	0.9	0
2	Structureâ€based analysis and evolution of a monomerized redâ€colored chromoprotein from the Olindias formosa jellyfish. Protein Science, 2022, 31, e4285.	7.6	1
3	Intracellular Heat Transfer and Thermal Property Revealed by Kilohertz Temperature Imaging with a Genetically Encoded Nanothermometer. Nano Letters, 2022, 22, 5698-5707.	9.1	14
4	Multicolor Bioluminescence Imaging of Subcellular Structures and Multicolor Calcium Imaging in Single Living Cells. Methods in Molecular Biology, 2021, 2350, 229-237.	0.9	1
5	A photoswitchable fluorescent protein for hours-time-lapse and sub-second-resolved super-resolution imaging. Microscopy (Oxford, England), 2021, 70, 340-352.	1.5	5
6	Ratiometric Bioluminescent Indicator for Simple and Rapid Diagnosis of Bilirubin. ACS Sensors, 2021, 6, 889-895.	7.8	14
7	A novel petal up-regulated PhXTH7 promoter analysis in Petunia hybrida by using bioluminescence reporter gene. Plant Biotechnology, 2021, 38, 197-204.	1.0	1
8	Enhanced brightness of bacterial luciferase by bioluminescence resonance energy transfer. Scientific Reports, 2021, 11, 14994.	3.3	12
9	Visible-Wavelength Multiphoton Activation Confocal Microscopy. ACS Photonics, 2021, 8, 2666-2673.	6.6	3
10	Exploring rare cellular activity in more than one million cells by a transscale scope. Scientific Reports, 2021, 11, 16539.	3.3	11
11	A highly-sensitive genetically encoded temperature indicator exploiting a temperature-responsive elastin-like polypeptide. Scientific Reports, 2021, 11, 16519.	3.3	9
12	Ratiometric Bioluminescent Indicator for a Simple and Rapid Measurement of Thrombin Activity Using a Smartphone. Analytical Chemistry, 2021, 93, 13520-13526.	6.5	7
13	Genetically Encoded Photosensitizer for Destruction of Protein or Cell Function. Advances in Experimental Medicine and Biology, 2021, 1293, 265-279.	1.6	4
14	Method for Detecting Emission Spectral Change of Bioluminescent Ratiometric Indicators by a Smartphone. Methods in Molecular Biology, 2021, 2274, 295-304.	0.9	3
15	Hyperspectral two-photon excitation microscopy using visible wavelength. Optics Letters, 2021, 46, 37.	3.3	6
16	Development of FRET-based indicators for visualizing homophilic trans interaction of a clustered protocadherin. Scientific Reports, 2021, 11, 22237.	3.3	4
17	Stepwise synaptic plasticity events drive the early phase of memory consolidation. Science, 2021, 374, 857-863.	12.6	67
18	A simple microfluidic device for live-imaging of the vertical section of epithelial cells. Analyst, The, 2020, 145, 667-674.	3.5	9

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19	Palmitoylated CKAP4 regulates mitochondrial functions through an interaction with VDAC2 at ERâ€“mitochondria contact sites. Journal of Cell Science, 2020, 133, .	2.0	23
20	Smartphone-Based Portable Bioluminescence Imaging System Enabling Observation at Various Scales from Whole Mouse Body to Organelle. Sensors, 2020, 20, 7166.	3.8	11
21	Bioluminescent Ratiometric Indicator for Analysis of Water Hardness in Household Water. Sensors, 2020, 20, 3164.	3.8	4
22	Editorial for the Special Issue of Biophysical Reviews focused on the Biophysical Society of Japan with select scientific content from the 57th BSJ annual meeting, Miyazaki, Japan. Biophysical Reviews, 2020, 12, 183-185.	3.2	11
23	Highly Biocompatible Super-resolution Imaging: SPoD-OnSPAN. Neuromethods, 2020, , 229-244.	0.3	1
24	LC3 lipidation is essential for TFEB activation during the lysosomal damage response to kidney injury. Nature Cell Biology, 2020, 22, 1252-1263.	10.3	117
25	Hierarchical Development of Motile Polarity in Durotactic Cells Just Crossing an Elasticity Boundary. Cell Structure and Function, 2020, 45, 33-43.	1.1	6
26	Hyperspectral fluorescence imaging by using visible-wavelength two-photon excitation. , 2020, , .		1
27	What is the Most Important Thing for Life. Seibutsu Butsuri, 2020, 60, 359-361.	0.1	0
28	Development of a Wireless Brain Activity Recording Method Based on Bioluminescence. Seibutsu Butsuri, 2020, 60, 117-120.	0.1	0
29	Significance of PGR5-dependent cyclic electron flow for optimizing the rate of ATP synthesis and consumption in Arabidopsis chloroplasts. Photosynthesis Research, 2019, 139, 359-365.	2.9	11
30	Survey on frontiers of language and robotics. Advanced Robotics, 2019, 33, 700-730.	1.8	35
31	Genetically Encoded Fluorescence/Bioluminescence Bimodal Indicators for Ca²⁺ Imaging. ACS Sensors, 2019, 4, 1825-1834.	7.8	33
32	Acid-Tolerant Reversibly Switchable Green Fluorescent Protein for Super-resolution Imaging under Acidic Conditions. Cell Chemical Biology, 2019, 26, 1469-1479.e6.	5.2	14
33	Imaging local brain activity of multiple freely moving mice sharing the same environment. Scientific Reports, 2019, 9, 7460.	3.3	21
34	Fluorescent Protein-Based Indicators for Functional Super-Resolution Imaging of Biomolecular Activities in Living Cells. International Journal of Molecular Sciences, 2019, 20, 5784.	4.1	23
35	Simultaneous monitoring of Ca²⁺ responses and salivary secretion in live animals reveals a threshold intracellular Ca²⁺ concentration for salivation. Experimental Physiology, 2019, 104, 61-69.	2.0	4
36	Visible-wavelength two-photon excitation microscopy with multifocus scanning for volumetric live-cell imaging. Journal of Biomedical Optics, 2019, 25, 1.	2.6	5

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37	A bimodal bioluminescent Ca2+ indicator toward spatiotemporally-scalable imaging. , 2019, , .		0
38	Bioluminescent Low-Affinity Ca²⁺ Indicator for ER with Multicolor Calcium Imaging in Single Living Cells. ACS Chemical Biology, 2018, 13, 1862-1871.	3.4	27
39	A Transient Rise in Free Mg2+ Ions Released from ATP-Mg Hydrolysis Contributes to Mitotic Chromosome Condensation. Current Biology, 2018, 28, 444-451.e6.	3.9	116
40	Red fluorescent cAMP indicator with increased affinity and expanded dynamic range. Scientific Reports, 2018, 8, 1866.	3.3	50
41	Acid-Tolerant Monomeric GFP from Olindias formosa. Cell Chemical Biology, 2018, 25, 330-338.e7.	5.2	71
42	Biomimetic Chemical Sensing by Fluorescence Signals Using a Virus-like Particle-Based Platform. ACS Sensors, 2018, 3, 87-92.	7.8	3
43	Green monomeric photosensitizing fluorescent protein for photo-inducible protein inactivation and cell ablation. BMC Biology, 2018, 16, 50.	3.8	26
44	An improved inverse-type Ca2+ indicator can detect putative neuronal inhibition in Caenorhabditis elegans by increasing signal intensity upon Ca2+ decrease. PLoS ONE, 2018, 13, e0194707.	2.5	12
45	Spontaneously Blinking Fluorescent Protein for Simple Single Laser Super-Resolution Live Cell Imaging. ACS Chemical Biology, 2018, 13, 1938-1943.	3.4	16
46	Fluorescent Proteins for Investigating Biological Events in Acidic Environments. International Journal of Molecular Sciences, 2018, 19, 1548.	4.1	88
47	Uninterrupted monitoring of drug effects in human-induced pluripotent stem cell-derived cardiomyocytes with bioluminescence Ca2+ microscopy. BMC Research Notes, 2018, 11, 313.	1.4	5
48	A platform of BRET-FRET hybrid biosensors for optogenetics, chemical screening, and in vivo imaging. Scientific Reports, 2018, 8, 8984.	3.3	57
49	Highly biocompatible super-resolution fluorescence imaging using the fast photoswitching fluorescent protein Kohinoor and SPoD-ExPAN with L p-regularized image reconstruction. Microscopy (Oxford, England), 2018, 67, 89-98.	1.5	12
50	CHAPTER 6. Optogenetic Control of the Generation of Reactive Oxygen Species for Photoinducible Protein Inactivation and Cell Ablation. Comprehensive Series in Photochemical and Photobiological Sciences, 2018, , 117-136.	0.3	0
51	A bimodal Ca2+ indicator toward spatiotemporally-scalable imaging. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, SY32-4.	0.0	0
52	A novel fiber-free technique for brain activity imaging in multiple freely behaving mice. , 2018, , .		0
53	Thermometers for monitoring cellular temperature. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2017, 30, 2-9.	11.6	41
54	Genetically encoded bioluminescent voltage indicator for multi-purpose use in wide range of bioimaging. Scientific Reports, 2017, 7, 42398.	3.3	57

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55	Distinct intracellular Ca2+ dynamics regulate apical constriction and differentially contribute to neural tube closure. Development (Cambridge), 2017, 144, 1307-1316.	2.5	42
56	Fluorescence and Bioluminescence Imaging of Angiogenesis in Flk1-Nano-lantern Transgenic Mice. Scientific Reports, 2017, 7, 46597.	3.3	11
57	Recent progress in expanding the chemiluminescent toolbox for bioimaging. Current Opinion in Biotechnology, 2017, 48, 135-141.	6.6	43
58	Activity-Dependent Dynamics of the Transcription Factor of cAMP-Response Element Binding Protein in Cortical Neurons Revealed by Single-Molecule Imaging. Journal of Neuroscience, 2017, 37, 1-10.	3.6	45
59	Optical inactivation of synaptic AMPA receptors erases fear memory. Nature Biotechnology, 2017, 35, 38-47.	17.5	65
60	Intracellular trafficking of particles inside endosomal vesicles is regulated by particle size. Journal of Controlled Release, 2017, 260, 183-193.	9.9	14
61	High-Speed and Scalable Whole-Brain Imaging in Rodents and Primates. Neuron, 2017, 94, 1085-1100.e6.	8.1	108
62	Bioluminescent indicator applicable to membrane voltage recording in various excitable cell types. , 2017, , .		0
63	Super-duper chemiluminescent proteins applicable to wide range of bioimaging. , 2017, , .		1
64	Methods for monitoring signaling molecules in cellular compartments. Cell Calcium, 2017, 64, 12-19.	2.4	10
65	Simultaneous imaging of multiple cellular events using high-accuracy fluorescence polarization microscopy. Microscopy (Oxford, England), 2017, 66, 110-119.	1.5	5
66	Dynamic Organization of Chromatin Domains Revealed by Super-Resolution Live-Cell Imaging. Molecular Cell, 2017, 67, 282-293.e7.	9.7	370
67	Alpha-synuclein facilitates to form short unconventional microtubules that have a unique function in the axonal transport. Scientific Reports, 2017, 7, 16386.	3.3	25
68	Production of intense, pulsed, and point-like neutron source from deuterated plastic cavity by mono-directional kilo-joule laser irradiation. Applied Physics Letters, 2017, 111, 233506.	3.3	10
69	Five Color Variants of Bright Luminescent Protein for Multi-Purpose Use in Wide Range of Bioimaging. Seibutsu Butsuri, 2017, 57, 262-264.	0.1	0
70	Genetically encoded ratiometric fluorescent thermometer with wide range and rapid response. PLoS ONE, 2017, 12, e0172344.	2.5	89
71	Non-invasive phenotyping and drug testing in single cardiomyocytes or beta-cells by calcium imaging and optogenetics. PLoS ONE, 2017, 12, e0174181.	2.5	20
72	General Anesthetic Conditions Induce Network Synchrony and Disrupt Sensory Processing in the Cortex. Frontiers in Cellular Neuroscience, 2016, 10, 64.	3.7	30

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73	Ca2+ monitoring in Plasmodium falciparum using the yellow cameleon-Nano biosensor. Scientific Reports, 2016, 6, 23454.	3.3	19
74	Five colour variants of bright luminescent protein for real-time multicolour bioimaging. Nature Communications, 2016, 7, 13718.	12.8	181
75	Dependence of fluorescent protein brightness on protein concentration in solution and enhancement of it. Scientific Reports, 2016, 6, 22342.	3.3	44
76	Nontrivial Effect of the Color-Exchange of a Donor/Acceptor Pair in the Engineering of FÃ¶rster Resonance Energy Transfer (FRET)-Based Indicators. ACS Chemical Biology, 2016, 11, 1816-1822.	3.4	21
77	Luminescence Imaging: (a) Multicolor Visualization of Ca2+ Dynamics in Different Cellular Compartments and (b) Video-Rate Tumor Detection in a Freely Moving Mouse. Methods in Molecular Biology, 2016, 1461, 289-297.	0.9	0
78	Dysregulation of a potassium channel, THIK-1, targeted by caspase-8 accelerates cell shrinkage. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 2766-2783.	4.1	7
79	Two Bistable Switches Govern M Phase Entry. Current Biology, 2016, 26, 3361-3367.	3.9	72
80	Reversible Monolayer/Spheroid Cell Culture Switching by UCST-Type Thermoresponsive Ureido Polymers. ACS Applied Materials & Interfaces, 2016, 8, 31524-31529.	8.0	41
81	Fabrication of Ca2+-K+ Image Sensor Using an Inkjet Method and Its Application to Living Cells. ECS Transactions, 2016, 75, 243-249.	0.5	5
82	The current trends and future prospect of neural activity measurement by genetically-encoded voltage indicators. Drug Delivery System, 2016, 31, 119-126.	0.0	0
83	Current progress in genetically encoded voltage indicators for neural activity recording. Current Opinion in Chemical Biology, 2016, 33, 95-100.	6.1	21
84	Nonlinear Structured Illumination Using a Fluorescent Protein Activating at the Readout Wavelength. PLoS ONE, 2016, 11, e0165148.	2.5	6
85	C4-P-08Biocompatible super-resolution imaging of fast photoswitching fluorescent proteins by polarization demodulation/excitation angle narrowing. Microscopy (Oxford, England), 2015, 64, i137.2-i137.	1.5	0
86	A Temporary Gating of Actin Remodeling during Synaptic Plasticity Consists of the Interplay between the Kinase and Structural Functions of CaMKII. Neuron, 2015, 88, 433.	8.1	0
87	Real Time Imaging of Biological Phenomena with Super-duper Luminescent Proteins. Cytologia, 2015, 80, 1-2.	0.6	0
88	Partial agonistic effects of pilocarpine on Ca²⁺ responses and salivary secretion in the submandibular glands of live animals. Experimental Physiology, 2015, 100, 640-651.	2.0	9
89	Calcium signalling mediates self-incompatibility response in the Brassicaceae. Nature Plants, 2015, 1, 15128.	9.3	66
90	Threshold-free evaluation of near-surface diffusion and adsorption-dominated motion from single-molecule tracking data of single-stranded DNA through total internal reflection fluorescence microscopy. Japanese Journal of Applied Physics, 2015, 54, 125601.	1.5	14

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91	Various Application of Fluorescent and Chemiluminescent Proteins. Seibutsu Butsuri, 2015, 55, 305-310.	0.1	0
92	Rotational motion of rhodamine 6G tethered to actin through oligo(ethylene glycol) linkers studied by frequency-domain fluorescence anisotropy. Biophysics and Physicobiology, 2015, 12, 87-102.	1.0	1
93	Spectral Fingerprinting of Individual Cells Visualized by Cavity-Reflection-Enhanced Light-Absorption Microscopy. PLoS ONE, 2015, 10, e0125733.	2.5	7
94	Special Section Guest Editorial:Protein Photonics for Imaging, Sensing, and Manipulation: Honoring Prof. Osamu Shimomura, a Pioneer of Photonics for Biomedical Research. Journal of Biomedical Optics, 2015, 20, 101201.	2.6	0
95	C5-O-04Genetically-Ecoded Tools to Optically Control and Image Ca²⁺Dynamics. Microscopy (Oxford, England), 2015, 64, i73.1-i73.	1.5	0
96	C6-P-07Spectral fingerprinting of individual cells visualized by cavity-reflection-enhanced light-absorption microscopy. Microscopy (Oxford, England), 2015, 64, i143.2-i143.	1.5	0
97	C5-P-03An Expanded Color Palette of Nano-lanterns, the Super-brilliant Luminescent Proteins for Multicolor, Real-time Bioluminescence Imaging. Microscopy (Oxford, England), 2015, 64, i140.1-i140.	1.5	0
98	Redox sensor proteins for highly sensitive direct imaging of intracellular redox state. Biochemical and Biophysical Research Communications, 2015, 457, 242-248.	2.1	33
99	Lateralization, maturation, and anteroposterior topography in the lateral habenula revealed by ZIF268/EGR1 immunoreactivity and labeling history of neuronal activity. Neuroscience Research, 2015, 95, 27-37.	1.9	18
100	Single-Molecule Imaging Reveals Dynamics of CREB Transcription Factor Bound to Its Target Sequence. Scientific Reports, 2015, 5, 10662.	3.3	37
101	A guide to use photocontrollable fluorescent proteins and synthetic smart fluorophores for nanoscopy. Microscopy (Oxford, England), 2015, 64, 263-277.	1.5	37
102	Expanded palette of Nano-lanterns for real-time multicolor luminescence imaging. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4352-4356.	7.1	110
103	A fast- and positively photoswitchable fluorescent protein for ultralow-laser-power RESOLFT nanoscopy. Nature Methods, 2015, 12, 515-518.	19.0	67
104	Direct Heating of a Laser-Imploded Core by Ultraintense Laser-Driven Ions. Physical Review Letters, 2015, 114, 195002.	7.8	28
105	MagIC, a genetically encoded fluorescent indicator for monitoring cellular Mg2+ using a non-FÃ¶rster resonance energy transfer ratiometric imaging approach. Journal of Biomedical Optics, 2015, 20, 1.	2.6	15
106	Visible-wavelength two-photon excitation microscopy for fluorescent protein imaging. Journal of Biomedical Optics, 2015, 20, 1.	2.6	21
107	Recent progress in luminescent proteins development. Current Opinion in Chemical Biology, 2015, 27, 46-51.	6.1	25
108	A Temporary Gating of Actin Remodeling during Synaptic Plasticity Consists of the Interplay between the Kinase and Structural Functions of CaMKII. Neuron, 2015, 87, 813-826.	8.1	115

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109	Genetically encoded Ca2+ indicators; expanded affinity range, color hue and compatibility with optogenetics. Frontiers in Molecular Neuroscience, 2014, 7, 90.	2.9	14
110	Development of multichannel low-energy neutron spectrometer. Review of Scientific Instruments, 2014, 85, 11E125.	1.3	5
111	A snapshot of plasma metabolites in first-episode schizophrenia: a capillary electrophoresis time-of-flight mass spectrometry study. Translational Psychiatry, 2014, 4, e379-e379.	4.8	78
112	Ultrasensitive Imaging of Ca2+ Dynamics in Pancreatic Acinar Cells of Yellow Cameleon-Nano Transgenic Mice. International Journal of Molecular Sciences, 2014, 15, 19971-19986.	4.1	9
113	Characterizing a fast-response, low-afterglow liquid scintillator for neutron time-of-flight diagnostics in fast ignition experiments. Review of Scientific Instruments, 2014, 85, 11E126.	1.3	9
114	Photonuclear reaction based high-energy x-ray spectrometer to cover from 2 MeV to 20 MeV. Review of Scientific Instruments, 2014, 85, 11D629.	1.3	5
115	Nicotine exposure alters human vascular smooth muscle cell phenotype from a contractile to a synthetic type. Atherosclerosis, 2014, 237, 464-470.	0.8	49
116	Arl3 and LC8 regulate dissociation of dynactin from dynein. Nature Communications, 2014, 5, 5295.	12.8	13
117	InÂVivo Visualization of Subtle, Transient, and Local Activity of Astrocytes Using an Ultrasensitive Ca2+ Indicator. Cell Reports, 2014, 8, 311-318.	6.4	158
118	Optical Control of the Ca²⁺ Concentration in a Live Specimen with a Genetically Encoded Ca²⁺-Releasing Molecular Tool. ACS Chemical Biology, 2014, 9, 1197-1203.	3.4	43
119	Quantitative measurement of intracellular protein dynamics using photobleaching or photoactivation of fluorescent proteins. Microscopy (Oxford, England), 2014, 63, 403-408.	1.5	17
120	Statistical characterisation of singleâ€stranded DNA motion near glass surface beyond diffusion coefficient. Micro and Nano Letters, 2014, 9, 257-260.	1.3	11
121	Realâ€Time Chemiluminescence Imaging Using Nanoâ€Lantern Probes. Current Protocols in Chemical Biology, 2014, 6, 221-236.	1.7	3
122	Simultaneous single and two-photon excitation of fluorescent proteins for multicolor imaging of cellular structures. , 2014, , .		0
123	SuperNova, a monomeric photosensitizing fluorescent protein for chromophore-assisted light inactivation. Scientific Reports, 2013, 3, 2629.	3.3	132
124	Highlightable Ca²⁺ Indicators for Live Cell Imaging. Journal of the American Chemical Society, 2013, 135, 46-49.	13.7	61
125	Improved Orange and Red Ca²⁺ Indicators and Photophysical Considerations for Optogenetic Applications. ACS Chemical Neuroscience, 2013, 4, 963-972.	3.5	218
126	Genetically encoded Ca2+ indicators: Properties and evaluation. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 1787-1797.	4.1	158

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127	Smart fluorescent proteins: Innovation for barrierâ€free superresolution imaging in living cells. Development Growth and Differentiation, 2013, 55, 491-507.	1.5	25
128	Extensive use of FRET in biological imaging. Microscopy (Oxford, England), 2013, 62, 419-428.	1.5	37
129	Imaging Intracellular Free Ca2+ Concentration Using Yellow Cameleons. Cold Spring Harbor Protocols, 2013, 2013, pdb.prot078642-pdb.prot078642.	0.3	8
130	Saturated excitation of fluorescent proteins for subdiffraction-limited imaging of living cells in three dimensions. Interface Focus, 2013, 3, 20130007.	3.0	10
131	Rab6a releases LIS1 from a dynein idling complex and activates dynein for retrograde movement. Nature Communications, 2013, 4, 2033.	12.8	24
132	Flexible and dynamic nucleosome fiber in living mammalian cells. Nucleus, 2013, 4, 349-356.	2.2	42
133	Highlighted Ca2+ imaging with a genetically encoded â€˜cagedâ€™ indicator. Scientific Reports, 2013, 3, 1398.	3.3	26
134	Nonlinear Deep-UV excitation microscopy for high-resolution multicolor imaging of fluorescent proteins. , 2013, , .		0
135	Changes in Cytosolic ATP Levels and Intracellular Morphology during Bacteria-Induced Hypersensitive Cell Death as Revealed by Real-Time Fluorescence Microscopy Imaging. Plant and Cell Physiology, 2012, 53, 1768-1775.	3.1	29
136	Luminescent proteins for high-speed single-cell and whole-body imaging. Nature Communications, 2012, 3, 1262.	12.8	247
137	Optogenetic activation during detector â€œdead timeâ€•enables compatible real-time fluorescence imaging. Neuroscience Research, 2012, 73, 341-347.	1.9	17
138	Cytoplasmic Ca2+ changes dynamically during the interaction of the pollen tube with synergid cells. Development (Cambridge), 2012, 139, 4202-4209.	2.5	86
139	The molecular mechanism of apoptosis upon caspase-8 activation: Quantitative experimental validation of a mathematical model. Biochimica Et Biophysica Acta - Molecular Cell Research, 2012, 1823, 1825-1840.	4.1	47
140	Local Nucleosome Dynamics Facilitate Chromatin Accessibility in Living Mammalian Cells. Cell Reports, 2012, 2, 1645-1656.	6.4	175
141	Synchronized ATP oscillations have a critical role in prechondrogenic condensation during chondrogenesis. Cell Death and Disease, 2012, 3, e278-e278.	6.3	30
142	In Vivo Imaging of Hierarchical Spatiotemporal Activation of Caspase-8 during Apoptosis. PLoS ONE, 2012, 7, e50218.	2.5	22
143	Fluorescence imaging of potassium ions in living cells using a fluorescent probe based on a thrombin binding aptamerâ€“peptide conjugate. Chemical Communications, 2012, 48, 4740.	4.1	37
144	Development of BRET based Ca2+ Indicator. Seibutsu Butsuri, 2012, 52, 030-031.	0.1	0

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145	Chromophore-Assisted Light Inactivation of HaloTag Fusion Proteins Labeled with Eosin in Living Cells. ACS Chemical Biology, 2011, 6, 401-406.	3.4	51
146	Ca²⁺ Regulation of Mitochondrial ATP Synthesis Visualized at the Single Cell Level. ACS Chemical Biology, 2011, 6, 709-715.	3.4	140
147	Quantitative comparison of genetically encoded Ca2+ indicators in cortical pyramidal cells and cerebellar purkinje cells. Frontiers in Cellular Neuroscience, 2011, 5, 18.	3.7	42
148	Development of ultra-sensitive Ca2+indicators, yellow cameleon-nanos. , 2011, , .		0
149	Imaging the dynamics of intracellular protein translocation by photoconversion of phamretâ€cybr/ROM. Journal of Microscopy, 2011, 242, 250-261.	1.8	0
150	An Expanded Palette of Genetically Encoded Ca ²⁺ Indicators. Science, 2011, 333, 1888-1891.	12.6	1,178
151	Facilitated intracellular transport of TrkA by an interaction with nerve growth factor. Developmental Neurobiology, 2011, 71, 634-649.	3.0	8
152	Astrocyte Calcium Signaling Transforms Cholinergic Modulation to Cortical PlasticityIn Vivo. Journal of Neuroscience, 2011, 31, 18155-18165.	3.6	351
153	Auto-luminescent genetically encoded ratiometric indicator for real-time Ca2+imaging at the single cell level. , 2011, , .		1
154	Conjugation of Both On-axis and Off-axis Light in Nipkow Disk Confocal Microscope to Increase Availability of Incoherent Light Source. Cell Structure and Function, 2011, 36, 237-246.	1.1	4
155	2P326 Toward ultimate size down of Aequorea fluorescent protein Venus(The 48th Annual Meeting of) Tj ETQq1 1 0.784314 rgBT /O	0.1	0
156	Engineering Fluorescent Proteins to Expand Bio-Imaging Technology. The Review of Laser Engineering, 2010, 38, 416-420.	0.0	0
157	Optical recording of neuronal activity with a genetically-encoded calcium indicator in anesthetized and freely moving mice. Frontiers in Neural Circuits, 2010, 4, 9.	2.8	154
158	Spontaneous network activity visualized by ultrasensitive Ca2+ indicators, yellow Cameleon-Nano. Nature Methods, 2010, 7, 729-732.	19.0	319
159	Auto-Luminescent Genetically-Encoded Ratiometric Indicator for Real-Time Ca2+ Imaging at the Single Cell Level. PLoS ONE, 2010, 5, e9935.	2.5	53
160	Reversible Dimerization of Aequorea victoria Fluorescent Proteins Increases the Dynamic Range of FRET-Based Indicators. ACS Chemical Biology, 2010, 5, 215-222.	3.4	99
161	Intracellular Calcium Spikes in Rat Suprachiasmatic Nucleus Neurons Induced by BAPTA-Based Calcium Dyes. PLoS ONE, 2010, 5, e9634.	2.5	15
162	How to Measure Diffusion Coefficient of Biomolecules in Living Cells. Seibutsu Butsuri, 2009, 49, 181-186.	0.1	0

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163	Visualization of ATP levels inside single living cells with fluorescence resonance energy transfer-based genetically encoded indicators. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 15651-15656.	7.1	884
164	Fine-Tuning of the Cytoplasmic Ca2+ Concentration Is Essential for Pollen Tube Growth Â. Plant Physiology, 2009, 150, 1322-1334.	4.8	172
165	An ultramarine fluorescent protein with increased photostability and pH insensitivity. Nature Methods, 2009, 6, 351-353.	19.0	126
166	Two-Photon Excitation Behavior of Thiophene-Based Oligomers and a Polymer. Journal of Nanoscience and Nanotechnology, 2009, 9, 670-672.	0.9	4
167	A high-throughput and single-tube recombination of crude PCR products using a DNA polymerase inhibitor and type IIS restriction enzyme. Journal of Biotechnology, 2008, 137, 1-7.	3.8	29
168	Direct measurement of protein dynamics inside cells using a rationally designed photoconvertible protein. Nature Methods, 2008, 5, 339-345.	19.0	90
169	Cell-cycle-specific nestin expression coordinates with morphological changes in embryonic cortical neural progenitors. Journal of Cell Science, 2008, 121, 1204-1212.	2.0	65
170	2P-338 Long time physiological imaging with a red-shifted Ca^<2+> indicator based on FRET(The 46th) Tj ETQq0 0 0 rgBT /Overlock 10	0.1	0
171	2P-341 An ultramarine fluorescent protein with stable photostability and no pH sensitivity(The 46th) Tj ETQq1 1 0.784314 rgBT /Over	0.1	0
172	A Mercury Arc Lamp-Based Multi-Color Confocal Real Time Imaging System for Cellular Structure and Function. Cell Structure and Function, 2008, 33, 133-141.	1.1	4
173	Local initiation of caspase activation in Drosophila salivary gland programmed cell death in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 13367-13372.	7.1	62
174	3P305 Development of a fluorescent protein with deep blue colour(Bioimaging,Poster Presentations). Seibutsu Butsuri, 2007, 47, S279.	0.1	0
175	New Advances in Nanomedicine: Diagnosis and Preventive Medicine. Medical Clinics of North America, 2007, 91, 871-879.	2.5	5
176	Dynamic polymorphism of Ras observed by single molecule FRET is the basis for molecular recognition. Biochemical and Biophysical Research Communications, 2006, 343, 809-815.	2.1	28
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