

Takeharu Nagai

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8450194/takeharu-nagai-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

210
papers

14,701
citations

51
h-index

120
g-index

231
ext. papers

16,760
ext. citations

6.7
avg, IF

6.26
L-index

#	Paper	IF	Citations
210	A variant of yellow fluorescent protein with fast and efficient maturation for cell-biological applications. <i>Nature Biotechnology</i> , 2002 , 20, 87-90	44.5	2243
209	An expanded palette of genetically encoded Ca ²⁺ indicators. <i>Science</i> , 2011 , 333, 1888-91	33.3	895
208	Expanded dynamic range of fluorescent indicators for Ca(2+) by circularly permuted yellow fluorescent proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 10554-9	11.5	855
207	Circularly permuted green fluorescent proteins engineered to sense Ca ²⁺ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 3197-202	11.5	821
206	Visualization of ATP levels inside single living cells with fluorescence resonance energy transfer-based genetically encoded indicators. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 15651-6	11.5	701
205	Rapid and persistent modulation of actin dynamics regulates postsynaptic reorganization underlying bidirectional plasticity. <i>Nature Neuroscience</i> , 2004 , 7, 1104-12	25.5	644
204	Spatio-temporal images of growth-factor-induced activation of Ras and Rap1. <i>Nature</i> , 2001 , 411, 1065-8	50.4	501
203	The expression of the mouse Zic1, Zic2, and Zic3 gene suggests an essential role for Zic genes in body pattern formation. <i>Developmental Biology</i> , 1997 , 182, 299-313	3.1	287
202	Astrocyte calcium signaling transforms cholinergic modulation to cortical plasticity in vivo. <i>Journal of Neuroscience</i> , 2011 , 31, 18155-65	6.6	280
201	Cyan-emitting and orange-emitting fluorescent proteins as a donor/acceptor pair for fluorescence resonance energy transfer. <i>Biochemical Journal</i> , 2004 , 381, 307-12	3.8	274
200	Spontaneous network activity visualized by ultrasensitive Ca(2+) indicators, yellow Cameleon-Nano. <i>Nature Methods</i> , 2010 , 7, 729-32	21.6	272
199	Spatio-temporal activation of caspase revealed by indicator that is insensitive to environmental effects. <i>Journal of Cell Biology</i> , 2003 , 160, 235-43	7.3	234
198	Dynamic Organization of Chromatin Domains Revealed by Super-Resolution Live-Cell Imaging. <i>Molecular Cell</i> , 2017 , 67, 282-293.e7	17.6	226
197	Xenopus Zic3, a primary regulator both in neural and neural crest development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997 , 94, 11980-5	11.5	222
196	Luminescent proteins for high-speed single-cell and whole-body imaging. <i>Nature Communications</i> , 2012 , 3, 1262	17.4	206
195	Functional fluorescent Ca ²⁺ indicator proteins in transgenic mice under TET control. <i>PLoS Biology</i> , 2004 , 2, e163	9.7	200
194	Zic2 regulates the kinetics of neurulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 1618-23	11.5	192

193	Beat-to-beat oscillations of mitochondrial [Ca ²⁺] in cardiac cells. <i>EMBO Journal</i> , 2001 , 20, 4998-5007	13	186
192	Mouse <i>Zic1</i> is involved in cerebellar development. <i>Journal of Neuroscience</i> , 1998 , 18, 284-93	6.6	176
191	Identification of mitochondrial DNA polymorphisms that alter mitochondrial matrix pH and intracellular calcium dynamics. <i>PLoS Genetics</i> , 2006 , 2, e128	6	171
190	Improved orange and red Ca ²⁺ indicators and photophysical considerations for optogenetic applications. <i>ACS Chemical Neuroscience</i> , 2013 , 4, 963-72	5.7	155
189	The mouse <i>zic</i> gene family. Homologues of the <i>Drosophila</i> pair-rule gene <i>odd-paired</i> . <i>Journal of Biological Chemistry</i> , 1996 , 271, 1043-7	5.4	155
188	Fine-tuning of the cytoplasmic Ca ²⁺ concentration is essential for pollen tube growth. <i>Plant Physiology</i> , 2009 , 150, 1322-34	6.6	148
187	<i>Xenopus</i> <i>Zic</i> family and its role in neural and neural crest development. <i>Mechanisms of Development</i> , 1998 , 75, 43-51	1.7	146
186	Crystal structure of venus, a yellow fluorescent protein with improved maturation and reduced environmental sensitivity. <i>Journal of Biological Chemistry</i> , 2002 , 277, 50573-8	5.4	142
185	Ca ²⁺ dynamics in a pollen grain and papilla cell during pollination of <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2004 , 136, 3562-71	6.6	134
184	Local nucleosome dynamics facilitate chromatin accessibility in living mammalian cells. <i>Cell Reports</i> , 2012 , 2, 1645-56	10.6	133
183	Genetically encoded Ca(2+) indicators: properties and evaluation. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013 , 1833, 1787-97	4.9	128
182	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	3.5	123
181	Five colour variants of bright luminescent protein for real-time multicolour bioimaging. <i>Nature Communications</i> , 2016 , 7, 13718	17.4	120
180	In vivo visualization of subtle, transient, and local activity of astrocytes using an ultrasensitive Ca(2+) indicator. <i>Cell Reports</i> , 2014 , 8, 311-8	10.6	119
179	Visualization of synaptic Ca ²⁺ /calmodulin-dependent protein kinase II activity in living neurons. <i>Journal of Neuroscience</i> , 2005 , 25, 3107-12	6.6	116
178	Ca ²⁺ regulation of mitochondrial ATP synthesis visualized at the single cell level. <i>ACS Chemical Biology</i> , 2011 , 6, 709-15	4.9	107
177	An ultramarine fluorescent protein with increased photostability and pH insensitivity. <i>Nature Methods</i> , 2009 , 6, 351-3	21.6	104
176	SuperNova, a monomeric photosensitizing fluorescent protein for chromophore-assisted light inactivation. <i>Scientific Reports</i> , 2013 , 3, 2629	4.9	100

175	Expanded palette of Nano-lanterns for real-time multicolor luminescence imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 4352-6	11.5	89
174	A Temporary Gating of Actin Remodeling during Synaptic Plasticity Consists of the Interplay between the Kinase and Structural Functions of CaMKII. <i>Neuron</i> , 2015 , 87, 813-26	13.9	85
173	A high-throughput method for development of FRET-based indicators for proteolysis. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 319, 72-7	3.4	84
172	Direct measurement of protein dynamics inside cells using a rationally designed photoconvertible protein. <i>Nature Methods</i> , 2008 , 5, 339-45	21.6	81
171	Reversible dimerization of Aequorea victoria fluorescent proteins increases the dynamic range of FRET-based indicators. <i>ACS Chemical Biology</i> , 2010 , 5, 215-22	4.9	80
170	A Temporary Gating of Actin Remodeling during Synaptic Plasticity Consists of the Interplay between the Kinase and Structural Functions of CaMKII. <i>Neuron</i> , 2015 , 88, 433	13.9	78
169	A Transient Rise in Free Mg Ions Released from ATP-Mg Hydrolysis Contributes to Mitotic Chromosome Condensation. <i>Current Biology</i> , 2018 , 28, 444-451.e6	6.3	74
168	Cytoplasmic Ca ²⁺ changes dynamically during the interaction of the pollen tube with synergid cells. <i>Development (Cambridge)</i> , 2012 , 139, 4202-9	6.6	68
167	High-Speed and Scalable Whole-Brain Imaging in Rodents and Primates. <i>Neuron</i> , 2017 , 94, 1085-1100.e6	13.9	65
166	A snapshot of plasma metabolites in first-episode schizophrenia: a capillary electrophoresis time-of-flight mass spectrometry study. <i>Translational Psychiatry</i> , 2014 , 4, e379	8.6	63
165	Visualization of spatiotemporal activation of Notch signaling: live monitoring and significance in neural development. <i>Developmental Biology</i> , 2005 , 286, 311-25	3.1	59
164	A fast- and positively photoswitchable fluorescent protein for ultralow-laser-power RESOLFT nanoscopy. <i>Nature Methods</i> , 2015 , 12, 515-8	21.6	58
163	Brain oxidation is an initial process in sleep induction. <i>Neuroscience</i> , 2005 , 130, 1029-40	3.9	57
162	Cell-cycle-specific nestin expression coordinates with morphological changes in embryonic cortical neural progenitors. <i>Journal of Cell Science</i> , 2008 , 121, 1204-12	5.3	55
161	Optical inactivation of synaptic AMPA receptors erases fear memory. <i>Nature Biotechnology</i> , 2017 , 35, 38-47	44.5	53
160	Mechanisms of protein fluorophore formation and engineering. <i>Current Opinion in Chemical Biology</i> , 2003 , 7, 557-62	9.7	53
159	Fluorescent Proteins for Investigating Biological Events in Acidic Environments. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	50
158	Local initiation of caspase activation in Drosophila salivary gland programmed cell death in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 13367-72	11.5	50

157	Genetically encoded ratiometric fluorescent thermometer with wide range and rapid response. <i>PLoS ONE</i> , 2017 , 12, e0172344	3.7	50
156	Auto-luminescent genetically-encoded ratiometric indicator for real-time Ca ²⁺ imaging at the single cell level. <i>PLoS ONE</i> , 2010 , 5, e9935	3.7	49
155	Two Bistable Switches Govern M Phase Entry. <i>Current Biology</i> , 2016 , 26, 3361-3367	6.3	48
154	Highlightable Ca ²⁺ indicators for live cell imaging. <i>Journal of the American Chemical Society</i> , 2013 , 135, 46-9	16.4	48
153	Calcium signalling mediates self-incompatibility response in the Brassicaceae. <i>Nature Plants</i> , 2015 , 1, 15128	11.5	47
152	Zic3 is involved in the left-right specification of the <i>Xenopus</i> embryo. <i>Development (Cambridge)</i> , 2000 , 127, 4787-4795	6.6	44
151	Genetically encoded bioluminescent voltage indicator for multi-purpose use in wide range of bioimaging. <i>Scientific Reports</i> , 2017 , 7, 42398	4.9	42
150	Chromophore-assisted light inactivation of HaloTag fusion proteins labeled with eosin in living cells. <i>ACS Chemical Biology</i> , 2011 , 6, 401-6	4.9	42
149	LC3 lipidation is essential for TFEB activation during the lysosomal damage response to kidney injury. <i>Nature Cell Biology</i> , 2020 , 22, 1252-1263	23.4	42
148	The molecular mechanism of apoptosis upon caspase-8 activation: quantitative experimental validation of a mathematical model. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2012 , 1823, 1825-40	4.9	39
147	Quantitative comparison of genetically encoded Ca indicators in cortical pyramidal cells and cerebellar Purkinje cells. <i>Frontiers in Cellular Neuroscience</i> , 2011 , 5, 18	6.1	38
146	Nicotine exposure alters human vascular smooth muscle cell phenotype from a contractile to a synthetic type. <i>Atherosclerosis</i> , 2014 , 237, 464-70	3.1	37
145	Red fluorescent cAMP indicator with increased affinity and expanded dynamic range. <i>Scientific Reports</i> , 2018 , 8, 1866	4.9	36
144	Acid-Tolerant Monomeric GFP from <i>Olindias formosa</i> . <i>Cell Chemical Biology</i> , 2018 , 25, 330-338.e7	8.2	36
143	Flexible and dynamic nucleosome fiber in living mammalian cells. <i>Nucleus</i> , 2013 , 4, 349-56	3.9	35
142	Engineering fluorescent proteins. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2005 , 95, 1-15	1.7	35
141	A platform of BRET-FRET hybrid biosensors for optogenetics, chemical screening, and in vivo imaging. <i>Scientific Reports</i> , 2018 , 8, 8984	4.9	34
140	Recent progress in expanding the chemiluminescent toolbox for bioimaging. <i>Current Opinion in Biotechnology</i> , 2017 , 48, 135-141	11.4	33

139	Reversible Monolayer/Spheroid Cell Culture Switching by UCST-Type Thermoresponsive Ureido Polymers. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 31524-31529	9.5	33
138	Optical control of the Ca ²⁺ concentration in a live specimen with a genetically encoded Ca ²⁺ -releasing molecular tool. <i>ACS Chemical Biology</i> , 2014 , 9, 1197-203	4.9	33
137	A guide to use photocontrollable fluorescent proteins and synthetic smart fluorophores for nanoscopy. <i>Microscopy (Oxford, England)</i> , 2015 , 64, 263-77	1.3	31
136	Control of calcium signal propagation to the mitochondria by inositol 1,4,5-trisphosphate-binding proteins. <i>Journal of Biological Chemistry</i> , 2005 , 280, 12820-32	5.4	31
135	Single-Molecule Imaging Reveals Dynamics of CREB Transcription Factor Bound to Its Target Sequence. <i>Scientific Reports</i> , 2015 , 5, 10662	4.9	30
134	Fluorescence imaging of potassium ions in living cells using a fluorescent probe based on a thrombin binding aptamer-peptide conjugate. <i>Chemical Communications</i> , 2012 , 48, 4740-2	5.8	30
133	Extensive use of FRET in biological imaging. <i>Microscopy (Oxford, England)</i> , 2013 , 62, 419-28	1.3	30
132	Dependence of fluorescent protein brightness on protein concentration in solution and enhancement of it. <i>Scientific Reports</i> , 2016 , 6, 22342	4.9	29
131	Redox sensor proteins for highly sensitive direct imaging of intracellular redox state. <i>Biochemical and Biophysical Research Communications</i> , 2015 , 457, 242-8	3.4	28
130	Dynamic polymorphism of Ras observed by single molecule FRET is the basis for molecular recognition. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 343, 809-15	3.4	27
129	Synchronized ATP oscillations have a critical role in prechondrogenic condensation during chondrogenesis. <i>Cell Death and Disease</i> , 2012 , 3, e278	9.8	26
128	Thermometers for monitoring cellular temperature. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2017 , 30, 2-9	16.4	25
127	Activity-Dependent Dynamics of the Transcription Factor of cAMP-Response Element Binding Protein in Cortical Neurons Revealed by Single-Molecule Imaging. <i>Journal of Neuroscience</i> , 2017 , 37, 1-10	6.6	25
126	Smart fluorescent proteins: innovation for barrier-free superresolution imaging in living cells. <i>Development Growth and Differentiation</i> , 2013 , 55, 491-507	3	25
125	A high-throughput and single-tube recombination of crude PCR products using a DNA polymerase inhibitor and type IIS restriction enzyme. <i>Journal of Biotechnology</i> , 2008 , 137, 1-7	3.7	25
124	Distinct intracellular Ca dynamics regulate apical constriction and differentially contribute to neural tube closure. <i>Development (Cambridge)</i> , 2017 , 144, 1307-1316	6.6	23
123	Recent progress in luminescent proteins development. <i>Current Opinion in Chemical Biology</i> , 2015 , 27, 46-51	9.7	22
122	Coordination of BMP-3b and cerberus is required for head formation of <i>Xenopus</i> embryos. <i>Developmental Biology</i> , 2003 , 260, 138-57	3.1	22

121	Rab6a releases LIS1 from a dynein idling complex and activates dynein for retrograde movement. <i>Nature Communications</i> , 2013 , 4, 2033	17.4	21
120	Changes in cytosolic ATP levels and intracellular morphology during bacteria-induced hypersensitive cell death as revealed by real-time fluorescence microscopy imaging. <i>Plant and Cell Physiology</i> , 2012 , 53, 1768-75	4.9	20
119	Direct heating of a laser-imploded core by ultraintense laser-driven ions. <i>Physical Review Letters</i> , 2015 , 114, 195002	7.4	19
118	In vivo imaging of hierarchical spatiotemporal activation of caspase-8 during apoptosis. <i>PLoS ONE</i> , 2012 , 7, e50218	3.7	19
117	General Anesthetic Conditions Induce Network Synchrony and Disrupt Sensory Processing in the Cortex. <i>Frontiers in Cellular Neuroscience</i> , 2016 , 10, 64	6.1	19
116	Green monomeric photosensitizing fluorescent protein for photo-inducible protein inactivation and cell ablation. <i>BMC Biology</i> , 2018 , 16, 50	7.3	18
115	Current progress in genetically encoded voltage indicators for neural activity recording. <i>Current Opinion in Chemical Biology</i> , 2016 , 33, 95-100	9.7	18
114	Nontrivial Effect of the Color-Exchange of a Donor/Acceptor Pair in the Engineering of Förster Resonance Energy Transfer (FRET)-Based Indicators. <i>ACS Chemical Biology</i> , 2016 , 11, 1816-22	4.9	18
113	Bioluminescent Low-Affinity Ca Indicator for ER with Multicolor Calcium Imaging in Single Living Cells. <i>ACS Chemical Biology</i> , 2018 , 13, 1862-1871	4.9	17
112	Survey on frontiers of language and robotics. <i>Advanced Robotics</i> , 2019 , 33, 700-730	1.7	17
111	Non-invasive phenotyping and drug testing in single cardiomyocytes or beta-cells by calcium imaging and optogenetics. <i>PLoS ONE</i> , 2017 , 12, e0174181	3.7	17
110	Visible-wavelength two-photon excitation microscopy for fluorescent protein imaging. <i>Journal of Biomedical Optics</i> , 2015 , 20, 101202	3.5	16
109	Highlighted Ca ²⁺ imaging with a genetically encoded QagedQndicator. <i>Scientific Reports</i> , 2013 , 3, 1398	4.9	16
108	Development of genetically encoded fluorescent indicators for calcium. <i>Methods in Enzymology</i> , 2003 , 360, 202-25	1.7	16
107	Autoinduction of activin genes in early <i>Xenopus</i> embryos. <i>Biochemical Journal</i> , 1994 , 298 (Pt 2), 275-80	3.8	16
106	A carboxyl-terminal truncated version of the activin receptor mediates activin signals in early <i>Xenopus</i> embryos. <i>FEBS Letters</i> , 1992 , 312, 169-73	3.8	16
105	<i>Xenopus</i> Polycomblike 2 (XPcl2) controls anterior to posterior patterning of the neural tissue. <i>Development Genes and Evolution</i> , 2001 , 211, 309-14	1.8	15
104	Confocal imaging of subcellular Ca ²⁺ concentrations using a dual-excitation ratiometric indicator based on green fluorescent protein. <i>Science Signaling</i> , 2002 , 2002, p14	8.8	15

103	Lateralization, maturation, and anteroposterior topography in the lateral habenula revealed by ZIF268/EGR1 immunoreactivity and labeling history of neuronal activity. <i>Neuroscience Research</i> , 2015 , 95, 27-37	2.9	14
102	Genetically Encoded Fluorescence/Bioluminescence Bimodal Indicators for Ca Imaging. <i>ACS Sensors</i> , 2019 , 4, 1825-1834	9.2	14
101	Optogenetic activation during detector "dead time" enables compatible real-time fluorescence imaging. <i>Neuroscience Research</i> , 2012 , 73, 341-7	2.9	14
100	Mitochondrial calcium response in human transformed lymphoblastoid cells. <i>Life Sciences</i> , 2002 , 71, 581-98	9.8	14
99	Quantitative measurement of intracellular protein dynamics using photobleaching or photoactivation of fluorescent proteins. <i>Microscopy (Oxford, England)</i> , 2014 , 63, 403-8	1.3	13
98	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. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 125601	1.4	13
97	Intracellular calcium spikes in rat suprachiasmatic nucleus neurons induced by BAPTA-based calcium dyes. <i>PLoS ONE</i> , 2010 , 5, e9634	3.7	13
96	Ca(2+) monitoring in Plasmodium falciparum using the yellow cameleon-Nano biosensor. <i>Scientific Reports</i> , 2016 , 6, 23454	4.9	13
95	MagIC, a genetically encoded fluorescent indicator for monitoring cellular Mg2+ using a non-Förster resonance energy transfer ratiometric imaging approach. <i>Journal of Biomedical Optics</i> , 2015 , 20, 101203	3.5	12
94	Alpha-synuclein facilitates to form short unconventional microtubules that have a unique function in the axonal transport. <i>Scientific Reports</i> , 2017 , 7, 16386	4.9	12
93	Genetically encoded Ca(2+) indicators; expanded affinity range, color hue and compatibility with optogenetics. <i>Frontiers in Molecular Neuroscience</i> , 2014 , 7, 90	6.1	12
92	Anteroposterior patterning in Xenopus embryos: egg fragment assay system reveals a synergy of dorsalizing and posteriorizing embryonic domains. <i>Developmental Biology</i> , 2002 , 252, 15-30	3.1	11
91	Fluorescence and Bioluminescence Imaging of Angiogenesis in Flk1-Nano-lantern Transgenic Mice. <i>Scientific Reports</i> , 2017 , 7, 46597	4.9	10
90	Statistical characterisation of single-stranded DNA motion near glass surface beyond diffusion coefficient. <i>Micro and Nano Letters</i> , 2014 , 9, 257-260	0.9	10
89	Fluorescent Protein-Based Indicators for Functional Super-Resolution Imaging of Biomolecular Activities in Living Cells. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	10
88	Methods for monitoring signaling molecules in cellular compartments. <i>Cell Calcium</i> , 2017 , 64, 12-19	4	9
87	Ultrasensitive imaging of Ca2+ dynamics in pancreatic acinar cells of yellow cameleon-nano transgenic mice. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 19971-86	6.3	9
86	Highly biocompatible super-resolution fluorescence imaging using the fast photoswitching fluorescent protein Kohinoor and SPoD-ExPAN with Lp-regularized image reconstruction. <i>Microscopy (Oxford, England)</i> , 2018 , 67, 89-98	1.3	9

85	Spontaneously Blinking Fluorescent Protein for Simple Single Laser Super-Resolution Live Cell Imaging. <i>ACS Chemical Biology</i> , 2018 , 13, 1938-1943	4.9	9
84	Intracellular trafficking of particles inside endosomal vesicles is regulated by particle size. <i>Journal of Controlled Release</i> , 2017 , 260, 183-193	11.7	8
83	Imaging local brain activity of multiple freely moving mice sharing the same environment. <i>Scientific Reports</i> , 2019 , 9, 7460	4.9	8
82	Arl3 and LC8 regulate dissociation of dynactin from dynein. <i>Nature Communications</i> , 2014 , 5, 5295	17.4	8
81	Production of intense, pulsed, and point-like neutron source from deuterated plastic cavity by mono-directional kilo-joule laser irradiation. <i>Applied Physics Letters</i> , 2017 , 111, 233506	3.4	8
80	Partial agonistic effects of pilocarpine on Ca(2+) responses and salivary secretion in the submandibular glands of live animals. <i>Experimental Physiology</i> , 2015 , 100, 640-51	2.4	8
79	Imaging intracellular free Ca ²⁺ concentration using yellow cameleons. <i>Cold Spring Harbor Protocols</i> , 2013 , 2013,	1.2	8
78	Saturated excitation of fluorescent proteins for subdiffraction-limited imaging of living cells in three dimensions. <i>Interface Focus</i> , 2013 , 3, 20130007	3.9	8
77	Facilitated intracellular transport of TrkA by an interaction with nerve growth factor. <i>Developmental Neurobiology</i> , 2011 , 71, 634-49	3.2	8
76	Acid-Tolerant Reversibly Switchable Green Fluorescent Protein for Super-resolution Imaging under Acidic Conditions. <i>Cell Chemical Biology</i> , 2019 , 26, 1469-1479.e6	8.2	7
75	Characterizing a fast-response, low-afterglow liquid scintillator for neutron time-of-flight diagnostics in fast ignition experiments. <i>Review of Scientific Instruments</i> , 2014 , 85, 11E126	1.7	7
74	Palmitoylated CKAP4 regulates mitochondrial functions through an interaction with VDAC2 at ER-mitochondria contact sites. <i>Journal of Cell Science</i> , 2020 , 133,	5.3	7
73	An improved inverse-type Ca ²⁺ indicator can detect putative neuronal inhibition in <i>Caenorhabditis elegans</i> by increasing signal intensity upon Ca ²⁺ decrease. <i>PLoS ONE</i> , 2018 , 13, e0194707	3.7	7
72	Smartphone-Based Portable Bioluminescence Imaging System Enabling Observation at Various Scales from Whole Mouse Body to Organelle. <i>Sensors</i> , 2020 , 20,	3.8	6
71	Spectral fingerprinting of individual cells visualized by cavity-reflection-enhanced light-absorption microscopy. <i>PLoS ONE</i> , 2015 , 10, e0125733	3.7	6
70	Significance of PGR5-dependent cyclic electron flow for optimizing the rate of ATP synthesis and consumption in <i>Arabidopsis</i> chloroplasts. <i>Photosynthesis Research</i> , 2019 , 139, 359-365	3.7	5
69	Photonuclear reaction based high-energy x-ray spectrometer to cover from 2 MeV to 20 MeV. <i>Review of Scientific Instruments</i> , 2014 , 85, 11D629	1.7	5
68	Self-Assembly of m-Diethynylbenzene Macrocycles Containing Exoannular Chiral Side Chains. <i>Advanced Functional Materials</i> , 2006 , 16, 1549-1554	15.6	5

67	Formation of Well-Ordered Step Structures on Si(111) by a Combination of Chemical Etching and Surface Scratching for Producing Macrosized Patterns. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 21-23	3.4	5
66	Nondestructive Imaging of Internal Structures of Frog (<i>Xenopus laevis</i>) Embryos by Shadow-Projection X-Ray Microtomography. <i>Japanese Journal of Applied Physics</i> , 1994 , 33, L556-L558	1.4	5
65	Stepwise synaptic plasticity events drive the early phase of memory consolidation. <i>Science</i> , 2021 , 374, 857-863	33.3	5
64	Ratiometric Bioluminescent Indicator for Simple and Rapid Diagnosis of Bilirubin. <i>ACS Sensors</i> , 2021 , 6, 889-895	9.2	5
63	Simultaneous imaging of multiple cellular events using high-accuracy fluorescence polarization microscopy. <i>Microscopy (Oxford, England)</i> , 2017 , 66, 110-119	1.3	4
62	Dysregulation of a potassium channel, THIK-1, targeted by caspase-8 accelerates cell shrinkage. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016 , 1863, 2766-2783	4.9	4
61	Two-photon excitation behavior of thiophene-based oligomers and a polymer. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 670-2	1.3	4
60	A mercury arc lamp-based multi-color confocal real time imaging system for cellular structure and function. <i>Cell Structure and Function</i> , 2008 , 33, 133-41	2.2	4
59	New advances in nanomedicine: diagnosis and preventive medicine. <i>Medical Clinics of North America</i> , 2007 , 91, 871-9	7	4
58	Nonlinear Structured Illumination Using a Fluorescent Protein Activating at the Readout Wavelength. <i>PLoS ONE</i> , 2016 , 11, e0165148	3.7	4
57	Biomimetic Chemical Sensing by Fluorescence Signals Using a Virus-like Particle-Based Platform. <i>ACS Sensors</i> , 2018 , 3, 87-92	9.2	3
56	Fabrication of Ca ²⁺ -K ⁺ Image Sensor Using an Inkjet Method and Its Application to Living Cells. <i>ECS Transactions</i> , 2016 , 75, 243-249	1	3
55	Uninterrupted monitoring of drug effects in human-induced pluripotent stem cell-derived cardiomyocytes with bioluminescence Ca microscopy. <i>BMC Research Notes</i> , 2018 , 11, 313	2.3	3
54	Development of multichannel low-energy neutron spectrometer. <i>Review of Scientific Instruments</i> , 2014 , 85, 11E125	1.7	3
53	Visible-wavelength two-photon excitation microscopy with multifocus scanning for volumetric live-cell imaging. <i>Journal of Biomedical Optics</i> , 2019 , 25, 1-5	3.5	3
52	Hierarchical Development of Motile Polarity in Durotactic Cells Just Crossing an Elasticity Boundary. <i>Cell Structure and Function</i> , 2020 , 45, 33-43	2.2	3
51	A simple microfluidic device for live-imaging of the vertical section of epithelial cells. <i>Analyst, The</i> , 2020 , 145, 667-674	5	3
50	Simultaneous monitoring of Ca responses and salivary secretion in live animals reveals a threshold intracellular Ca concentration for salivation. <i>Experimental Physiology</i> , 2019 , 104, 61-69	2.4	3

49	Enhanced brightness of bacterial luciferase by bioluminescence resonance energy transfer. <i>Scientific Reports</i> , 2021 , 11, 14994	4.9	3
48	Bioluminescent Ratiometric Indicator for Analysis of Water Hardness in Household Water. <i>Sensors</i> , 2020 , 20,	3.8	2
47	Conjugation of both on-axis and off-axis light in Nipkow disk confocal microscope to increase availability of incoherent light source. <i>Cell Structure and Function</i> , 2011 , 36, 237-46	2.2	2
46	Hyperspectral two-photon excitation microscopy using visible wavelength. <i>Optics Letters</i> , 2021 , 46, 37-40		2
45	A photoswitchable fluorescent protein for hours-time-lapse and sub-second-resolved super-resolution imaging. <i>Microscopy (Oxford, England)</i> , 2021 , 70, 340-352	1.3	2
44	Ratiometric Bioluminescent Indicator for a Simple and Rapid Measurement of Thrombin Activity Using a Smartphone. <i>Analytical Chemistry</i> , 2021 , 93, 13520-13526	7.8	2
43	Method for Detecting Emission Spectral Change of Bioluminescent Ratiometric Indicators by a Smartphone. <i>Methods in Molecular Biology</i> , 2021 , 2274, 295-304	1.4	2
42	Real-time chemiluminescence imaging using nano-lantern probes. <i>Current Protocols in Chemical Biology</i> , 2014 , 6, 221-236	1.8	2
41	Super-duper chemiluminescent proteins applicable to wide range of bioimaging 2017 ,		1
40	Auto-luminescent genetically encoded ratiometric indicator for real-time Ca ²⁺ imaging at the single cell level 2011 ,		1
39	Bioluminescent Multi-Characteristic Opsin for monitoring visual cortical activity upon optical stimulation		1
38	Hyperspectral fluorescence imaging by using visible-wavelength two-photon excitation 2020 ,		1
37	A spontaneously blinking fluorescent protein for simple single laser super-resolution live cell imaging		1
36	In vivo brain activity imaging of interactively locomoting mice		1
35	Multicolor Bioluminescence Imaging of Subcellular Structures and Multicolor Calcium Imaging in Single Living Cells. <i>Methods in Molecular Biology</i> , 2021 , 2350, 229-237	1.4	1
34	A highly-sensitive genetically encoded temperature indicator exploiting a temperature-responsive elastin-like polypeptide. <i>Scientific Reports</i> , 2021 , 11, 16519	4.9	1
33	Genetically Encoded Photosensitizer for Destruction of Protein or Cell Function. <i>Advances in Experimental Medicine and Biology</i> , 2021 , 1293, 265-279	3.6	1
32	Highly Biocompatible Super-resolution Imaging: SPoD-OnSPAN. <i>Neuromethods</i> , 2020 , 229-244	0.4	1

31	Rotational motion of rhodamine 6G tethered to actin through oligo(ethylene glycol) linkers studied by frequency-domain fluorescence anisotropy. <i>Biophysics and Physicobiology</i> , 2015 , 12, 87-102	1.4	○
30	Development of FRET-based indicators for visualizing homophilic trans interaction of a clustered protocadherin. <i>Scientific Reports</i> , 2021 , 11, 22237	4.9	○
29	A novel petal up-regulated promoter analysis in by using bioluminescence reporter gene. <i>Plant Biotechnology</i> , 2021 , 38, 197-204	1.3	○
28	Exploring rare cellular activity in more than one million cells by a transscale scope. <i>Scientific Reports</i> , 2021 , 11, 16539	4.9	○
27	The current trends and future prospect of neural activity measurement by genetically-encoded voltage indicators. <i>Drug Delivery System</i> , 2016 , 31, 119-126	○	
26	C4-P-08Biocompatible super-resolution imaging of fast photoswitching fluorescent proteins by polarization demodulation/excitation angle narrowing. <i>Microscopy (Oxford, England)</i> , 2015 , 64, i137.2-i137.3	1.3	○
25	Five Color Variants of Bright Luminescent Protein for Multi-Purpose Use in Wide Range of Bioimaging. <i>Seibutsu Butsuri</i> , 2017 , 57, 262-264	○	
24	Real Time Imaging of Biological Phenomena with Super-duper Luminescent Proteins. <i>Cytologia</i> , 2015 , 80, 1-2	0.9	
23	Various Application of Fluorescent and Chemiluminescent Proteins. <i>Seibutsu Butsuri</i> , 2015 , 55, 305-310	○	
22	C5-O-04Genetically-Ecoded Tools to Optically Control and Image Ca ²⁺ Dynamics. <i>Microscopy (Oxford, England)</i> , 2015 , 64, i73.1-i73	1.3	
21	C6-P-07Spectral fingerprinting of individual cells visualized by cavity-reflection-enhanced light-absorption microscopy. <i>Microscopy (Oxford, England)</i> , 2015 , 64, i143.2-i143	1.3	
20	C5-P-03An Expanded Color Palette of Nano-lanterns, the Super-brilliant Luminescent Proteins for Multicolor, Real-time Bioluminescence Imaging. <i>Microscopy (Oxford, England)</i> , 2015 , 64, i140.1-i140	1.3	
19	Imaging the dynamics of intracellular protein translocation by photoconversion of phamret-cybr/ROM. <i>Journal of Microscopy</i> , 2011 , 242, 250-61	1.9	
18	How to Measure Diffusion Coefficient of Biomolecules in Living Cells. <i>Seibutsu Butsuri</i> , 2009 , 49, 181-186	○	
17	2P326 Toward ultimate size down of Aequorea fluorescent protein Venus(The 48th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2010 , 50, S140	○	
16	Engineering Fluorescent Proteins to Expand Bio-Imaging Technology. <i>The Review of Laser Engineering</i> , 2010 , 38, 416-420	○	
15	2P-338 Long time physiological imaging with a red-shifted Ca ²⁺ indicator based on FRET(The 46th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2008 , 48, S127	○	
14	2P-341 An ultramarine fluorescent protein with stable photostability and no pH sensitivity(The 46th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2008 , 48, S127	○	

13	3P305 Development of a fluorescent protein with deep blue colour(Bioimaging,Poster Presentations). <i>Seibutsu Butsuri</i> , 2007 , 47, S279	0
12	What is the Most Important Thing for Life. <i>Seibutsu Butsuri</i> , 2020 , 60, 359-361	0
11	Development of a Wireless Brain Activity Recording Method Based on Bioluminescence. <i>Seibutsu Butsuri</i> , 2020 , 60, 117-120	0
10	Development of a GFP Variant with Fast and Efficient Maturation Properties. <i>Seibutsu Butsuri</i> , 2002 , 42, 305-308	0
9	Report on the 42nd Summer School for the Organization of Young Biophysicists. <i>Seibutsu Butsuri</i> , 2003 , 43, 40-41	0
8	Genetically Encoded Fluorescent Calcium Indicator Proteins 2005 , 101-111	
7	A bimodal Ca ²⁺ indicator toward spatiotemporally-scalable imaging. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018 , WCP2018, SY32-4	0
6	Development of BRET based Ca ²⁺ Indicator. <i>Seibutsu Butsuri</i> , 2012 , 52, 030-031	0
5	Luminescence Imaging: (a) Multicolor Visualization of Ca(2+) Dynamics in Different Cellular Compartments and (b) Video-Rate Tumor Detection in a Freely Moving Mouse. <i>Methods in Molecular Biology</i> , 2016 , 1461, 289-97	1.4
4	Visible-Wavelength Multiphoton Activation Confocal Microscopy. <i>ACS Photonics</i> , 2021 , 8, 2666-2673	6.3
3	Live Imaging of cAMP Signaling in D. discoideum Based on a Bioluminescent Indicator, Nano-lantern (cAMP).. <i>Methods in Molecular Biology</i> , 2022 , 2483, 231-240	1.4
2	Structure-based analysis and evolution of a monomerized red-colored chromoprotein from the <i>Olindias formosa</i> jellyfish.. <i>Protein Science</i> , 2022 , 31, e4285	6.3
1	Method for Measuring Bioactive Molecules in Blood by a Smartphone Using Bioluminescent Ratiometric Indicators. <i>Methods in Molecular Biology</i> , 2022 , 219-226	1.4