

Hideaki Mizuno

List of Publications by Citations

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

99
papers

6,816
citations

41
h-index

82
g-index

114
ext. papers

7,510
ext. citations

6.7
avg, IF

5.36
L-index

#	Paper	IF	Citations
99	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, 12651-6	11.5	840
98	Regulated fast nucleocytoplasmic shuttling observed by reversible protein highlighting. <i>Science</i> , 2004 , 306, 1370-3	33.3	682
97	Reversible single-molecule photoswitching in the GFP-like fluorescent protein Dronpa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 9511-6	11.5	410
96	Ktu/PF13 is required for cytoplasmic pre-assembly of axonemal dyneins. <i>Nature</i> , 2008 , 456, 611-6	50.4	283
95	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
94	Photo-induced peptide cleavage in the green-to-red conversion of a fluorescent protein. <i>Molecular Cell</i> , 2003 , 12, 1051-8	17.6	251
93	Altered stratum corneum barrier and enhanced percutaneous immune responses in filaggrin-null mice. <i>Journal of Allergy and Clinical Immunology</i> , 2012 , 129, 1538-46.e6	11.5	224
92	Red fluorescent protein from <i>Discozyma</i> as a fusion tag and a partner for fluorescence resonance energy transfer. <i>Biochemistry</i> , 2001 , 40, 2502-10	3.2	190
91	FRET-based in vivo Ca ²⁺ imaging by a new calmodulin-GFP fusion molecule. <i>Nature Structural Biology</i> , 2001 , 8, 1069-73		182
90	Auto-production of biosurfactants reverses the coffee ring effect in a bacterial system. <i>Nature Communications</i> , 2013 , 4, 1757	17.4	172
89	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
88	Electrical stimulation modulates fate determination of differentiating embryonic stem cells. <i>Stem Cells</i> , 2007 , 25, 562-70	5.8	148
87	A stroboscopic approach for fast photoactivation-localization microscopy with Dronpa mutants. <i>Journal of the American Chemical Society</i> , 2007 , 129, 13970-7	16.4	136
86	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, 9227-32	11.5	132
85	A pair of fluorescent resonance energy transfer-based probes for tyrosine phosphorylation of the CrkII adaptor protein in vivo. <i>Journal of Biological Chemistry</i> , 2001 , 276, 31305-10	5.4	124
84	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, 16132-41	16.4	120
83	The ER Stress Sensor PERK Coordinates ER-Plasma Membrane Contact Site Formation through Interaction with Filamin-A and F-Actin Remodeling. <i>Molecular Cell</i> , 2017 , 65, 885-899.e6	17.6	114

82	Highlighted generation of fluorescence signals using simultaneous two-color irradiation on Dronpa mutants. <i>Biophysical Journal</i> , 2007 , 92, L97-9	2.9	101
81	A role for sphingomyelin-rich lipid domains in the accumulation of phosphatidylinositol-4,5-bisphosphate to the cleavage furrow during cytokinesis. <i>Molecular and Cellular Biology</i> , 2012 , 32, 1396-407	4.8	96
80	Fluorescent probes for superresolution imaging of lipid domains on the plasma membrane. <i>Chemical Science</i> , 2011 , 2, 1548	9.4	95
79	Live-cell SERS endoscopy using plasmonic nanowire waveguides. <i>Advanced Materials</i> , 2014 , 26, 5124-8	24	93
78	Tunable Ratiometric Fluorescence Sensing of Intracellular pH by Aggregation-Induced Emission-Active Hyperbranched Polymer Nanoparticles. <i>Chemistry of Materials</i> , 2015 , 27, 3450-3455	9.6	89
77	Transfection of living HeLa cells with fluorescent poly-cytosine encapsulated Ag nanoclusters. <i>Photochemical and Photobiological Sciences</i> , 2010 , 9, 716-21	4.2	84
76	Rational design of photoconvertible and biphotochromic fluorescent proteins for advanced microscopy applications. <i>Chemistry and Biology</i> , 2011 , 18, 1241-51		79
75	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	6.5	75
74	Photo-induced protonation/deprotonation in the GFP-like fluorescent protein Dronpa: mechanism responsible for the reversible photoswitching. <i>Photochemical and Photobiological Sciences</i> , 2006 , 5, 567- 76	4.2	75
73	Polymeric Engineering of Nanoparticles for Highly Efficient Multifunctional Drug Delivery Systems. <i>Scientific Reports</i> , 2019 , 9, 2666	4.9	73
72	Green-to-red photoconvertible Dronpa mutant for multimodal super-resolution fluorescence microscopy. <i>ACS Nano</i> , 2014 , 8, 1664-73	16.7	68
71	Ultrafast excited-state dynamics of the photoswitchable protein Dronpa. <i>Journal of the American Chemical Society</i> , 2007 , 129, 4870-1	16.4	68
70	A theoretical study on the nature of on- and off-states of reversibly photoswitching fluorescent protein Dronpa: absorption, emission, protonation, and Raman. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 1114-26	3.4	63
69	Two-photon dual-color imaging using fluorescent proteins. <i>Nature Methods</i> , 2008 , 5, 373-4	21.6	61
68	Second-harmonic generation in GFP-like proteins. <i>Journal of the American Chemical Society</i> , 2008 , 130, 15713-9	16.4	58
67	Visualization of molecular fluorescence point spread functions via remote excitation switching fluorescence microscopy. <i>Nature Communications</i> , 2015 , 6, 6287	17.4	53
66	Mechanisms of protein fluorophore formation and engineering. <i>Current Opinion in Chemical Biology</i> , 2003 , 7, 557-62	9.7	53
65	Data storage based on photochromic and photoconvertible fluorescent proteins. <i>Journal of Biotechnology</i> , 2010 , 149, 289-98	3.7	52

64	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, 592-6	3.4	52
63	Concatenation of cyan and yellow fluorescent proteins for efficient resonance energy transfer. <i>Biochemistry</i> , 2006 , 45, 6267-71	3.2	50
62	The E1 mechanism in photo-induced beta-elimination reactions for green-to-red conversion of fluorescent proteins. <i>Chemistry and Biology</i> , 2009 , 16, 1140-7		49
61	Structural characterization of a thiazoline-containing chromophore in an orange fluorescent protein, monomeric Kusabira Orange. <i>Biochemistry</i> , 2008 , 47, 11573-80	3.2	48
60	Primary Events of Photodynamics in Reversible Photoswitching Fluorescent Protein Dronpa. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 3328-3333	6.4	47
59	Hidden electronic excited state of enhanced green fluorescent protein. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 2761-3	3.4	42
58	Higher resolution in localization microscopy by slower switching of a photochromic protein. <i>Photochemical and Photobiological Sciences</i> , 2010 , 9, 239-48	4.2	38
57	Confocal imaging with a fluorescent bile acid analogue closely mimicking hepatic taurocholate disposition. <i>Journal of Pharmaceutical Sciences</i> , 2014 , 103, 1872-81	3.9	37
56	Endogenous sphingomyelin segregates into submicrometric domains in the living erythrocyte membrane. <i>Journal of Lipid Research</i> , 2014 , 55, 1331-42	6.3	37
55	Engineering fluorescent proteins. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2005 , 95, 1-15	1.7	35
54	Single-pulse coherent anti-Stokes Raman scattering microscopy employing an octave spanning pulse. <i>Optics Express</i> , 2009 , 17, 11259-66	3.3	34
53	Structural characterization of a blue chromoprotein and its yellow mutant from the sea anemone <i>Cnidopus japonicus</i> . <i>Journal of Biological Chemistry</i> , 2006 , 281, 37813-9	5.4	33
52	Competition between energy and proton transfer in ultrafast excited-state dynamics of an oligomeric fluorescent protein red Kaede. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 22853-60	3.4	33
51	Competitive mechanistic pathways for green-to-red photoconversion in the fluorescent protein Kaede: a computational study. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 16666-75	3.4	32
50	Multifarious control of two-photon excitation of multiple fluorophores achieved by phase modulation of ultra-broadband laser pulses. <i>Optics Express</i> , 2009 , 17, 13737-46	3.3	32
49	Background-free deep imaging by spatial overlap modulation nonlinear optical microscopy. <i>Biomedical Optics Express</i> , 2012 , 3, 1594-608	3.5	27
48	Transgenic zebrafish for ratiometric imaging of cytosolic and mitochondrial Ca ²⁺ response in teleost embryo. <i>Cell Calcium</i> , 2013 , 54, 236-45	4	21
47	Measurement of two-photon excitation spectra of fluorescent proteins with nonlinear Fourier-transform spectroscopy. <i>Applied Optics</i> , 2010 , 49, 3323-9	0.2	21

46	Super-resolution mapping of glutamate receptors in <i>C. elegans</i> by confocal correlated PALM. <i>Scientific Reports</i> , 2015 , 5, 13532	4.9	19
45	Inhibition of Receptor Dimerization as a Novel Negative Feedback Mechanism of EGFR Signaling. <i>PLoS ONE</i> , 2015 , 10, e0139971	3.7	19
44	Revealing the excited-state dynamics of the fluorescent protein Dendra2. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 2300-13	3.4	18
43	NMR of all-carbon-13 sugars: an application in development of an analytical method for a novel natural sugar, 1,5-anhydrofructose. <i>Journal of Biochemistry</i> , 1996 , 119, 180-5	3.1	18
42	Adaptively controlled supercontinuum pulse from a microstructure fiber for two-photon excited fluorescence microscopy. <i>Applied Optics</i> , 2007 , 46, 3023-30	1.7	18
41	Fourier-transform spectroscopy combined with a 5-fs broadband pulse for multispectral nonlinear microscopy. <i>Physical Review A</i> , 2008 , 77,	2.6	16
40	Development of genetically encoded fluorescent indicators for calcium. <i>Methods in Enzymology</i> , 2003 , 360, 202-25	1.7	16
39	Selective excitation between two-photon and three-photon fluorescence with engineered cost functions. <i>Optics Express</i> , 2004 , 12, 3408-14	3.3	15
38	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	8.8	15
37	Conditional synthesis and utilization of 1,5-anhydroglucitol in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 1993 , 175, 7138-41	3.5	15
36	Nonlinear Optical Microscopy and Spectroscopy Employing Octave Spanning Pulses. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010 , 16, 767-780	3.8	14
35	Improved HaloTag Ligand Enables BRET Imaging With NanoLuc. <i>Frontiers in Chemistry</i> , 2019 , 7, 938	5	13
34	Photoswitchable fluorescent proteins for superresolution fluorescence microscopy circumventing the diffraction limit of light. <i>Methods in Molecular Biology</i> , 2014 , 1076, 793-812	1.4	13
33	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, 237-46	3	12
32	Super-resolution microscopy reveals majorly mono- and dimeric presenilin1/βsecretase at the cell surface. <i>ELife</i> , 2020 , 9,	8.9	12
31	Excited state dynamics of the photoconvertible fluorescent protein Kaede revealed by ultrafast spectroscopy. <i>Photochemical and Photobiological Sciences</i> , 2014 , 13, 867-74	4.2	10
30	Temporal control of local plasmon distribution on Au nanocrosses by ultra-broadband femtosecond laser pulses and its application for selective two-photon excitation of multiple fluorophores. <i>Optics Express</i> , 2011 , 19, 13618-27	3.3	10
29	Measurement of two-photon excitation spectrum used to photoconvert a fluorescent protein (Kaede) by nonlinear Fourier-transform spectroscopy. <i>Biomedical Optics Express</i> , 2010 , 1, 687-693	3.5	10

28	High-resolution fluorescence microscopy based on a cyclic sequential multiphoton process. <i>Biomedical Optics Express</i> , 2010 , 1, 791-797	3.5	10
27	Phosphorylation of 1,5-anhydro-D-glucitol in mammalian cells. <i>Journal of Biochemistry</i> , 1995 , 118, 411-7	3.1	10
26	Introducing fluorescence resonance energy transfer-based biosensors for the analysis of cAMP-PKA signalling in the fungal pathogen <i>Candida glabrata</i> . <i>Cellular Microbiology</i> , 2018 , 20, e12863	3.9	10
25	Two-photon pumping of random lasers by picosecond and nanosecond lasers. <i>Applied Physics B: Lasers and Optics</i> , 2006 , 85, 45-48	1.9	9
24	Mapping Transient Protein Interactions at the Nanoscale in Living Mammalian Cells. <i>ACS Nano</i> , 2018 , 12, 9842-9854	16.7	9
23	Mechanism Behind the Apparent Large Stokes Shift in LSSmOrange Investigated by Time-Resolved Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 14880-91	3.4	8
22	Imaging intracellular free Ca ²⁺ concentration using yellow cameleons. <i>Cold Spring Harbor Protocols</i> , 2013 , 2013,	1.2	8
21	Synthesis of 1,5-anhydro-D-glucitol from glucose in rat hepatoma cells. <i>Journal of Biochemistry</i> , 1994 , 115, 87-92	3.1	8
20	A Bimolecular Fluorescence Complementation Tool for Identification of Protein-Protein Interactions in. <i>G3: Genes, Genomes, Genetics</i> , 2017 , 7, 3509-3520	3.2	7
19	Structural basis for the influence of a single mutation K145N on the oligomerization and photoswitching rate of Dronpa. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2012 , 68, 1653-9		6
18	EGF RECEPTOR DYNAMICS IN EGF-RESPONDING CELLS REVEALED BY FUNCTIONAL IMAGING DURING SINGLE PARTICLE TRACKING. <i>Biophysical Reviews and Letters</i> , 2013 , 08, 229-242	1.2	6
17	QM/MM-Based Calculations of Absorption and Emission Spectra of LSSmOrange Variants. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 12454-12465	3.4	6
16	Photoconvertible Behavior of LSSmOrange Applicable for Single Emission Band Optical Highlighting. <i>Biophysical Journal</i> , 2016 , 111, 1014-25	2.9	6
15	<i>Escherichia coli</i> phosphorylates 1,5-Anhydroglucitol and releases 1,5-Anhydroglucitol 6-phosphate when glucose is absent in the medium. <i>Journal of Biochemistry</i> , 1996 , 119, 173-9	3.1	4
14	Amphiphilic Nanoaggregates with Bimodal MRI and Optical Properties Exhibiting Magnetic Field Dependent Switching from Positive to Negative Contrast Enhancement. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 5752-5761	9.5	3
13	Quantification of FRET-induced angular displacement by monitoring sensitized acceptor anisotropy using a dim fluorescent donor. <i>Nature Communications</i> , 2021 , 12, 2541	17.4	2
12	Nonlinear Optical Microscopy Employing Ultra-Broadband Femtosecond Laser Pulses. <i>The Review of Laser Engineering</i> , 2011 , 39, 893-903	0	1
11	Coherent control of multiphoton excitation process for biological fluorescence imaging 2005 ,		1

10	High concentration of glucitol in fetal serum and glucitol permeable cells. <i>Journal of Biochemistry</i> , 1993 , 114, 21-7	3.1	1
9	Measurement of two-photon excitation spectrum of various fluorophores with Fourier transform nonlinear spectroscopy 2009 ,		1
8	Autophosphorylation of EGFR at Y954 Facilitated Homodimerization and Enhanced Downstream Signals. <i>Biophysical Journal</i> , 2020 , 119, 2127-2137	2.9	1
7	Excited-State Proton Transfer Dynamics in LSSmOrange Studied by Time-Resolved Impulsive Stimulated Raman Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 7466-7473	6.4	0
6	2P520 Optical imaging of calcium transients in the muscle of ascidian larva(52. Bio-imaging,Poster Session,Abstract,Meeting Program of EABS & BSJ 2006). <i>Seibutsu Butsuri</i> , 2006 , 46, S425	0	
5	Adaptive Control of Two-Photon Excitation of Green Fluorescent Protein with Shaped Femtosecond Pulses. <i>Springer Series in Optical Sciences</i> , 2004 , 449-454	0.5	
4	Engineering cost function for optimizing coherent control between processes with different nonlinearities. <i>Springer Series in Chemical Physics</i> , 2005 , 640-642	0.3	
3	Genetically Encoded Fluorescent Calcium Indicator Proteins 2005 , 101-111		
2	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	
1	Single-Cell NanoBRET Imaging with Green-Range HaloTag Acceptor. <i>Methods in Molecular Biology</i> , 2022 , 207-218	1.4	