

Shin Mizukami

List of Publications by Year in Descending Order

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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.

87
papers

3,462
citations

32
h-index

58
g-index

96
ext. papers

3,813
ext. citations

8.3
avg, IF

5.14
L-index

#	Paper	IF	Citations
87	Clip to Click: Controlling Inverse Electron-Demand Diels-Alder Reactions with Macrocyclic Tetrazines.. <i>Organic Letters</i> , 2022 ,	6.2	1
86	Fluorescent Probes for the Quantification of Labile Metal Ions in Living Cells. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2021 , 79, 1020-1032	0.2	
85	Optical Manipulation of Subcellular Protein Translocation Using a Photoactivatable Covalent Labeling System. <i>Angewandte Chemie</i> , 2021 , 133, 11479-11484	3.6	2
84	Optical Manipulation of Subcellular Protein Translocation Using a Photoactivatable Covalent Labeling System. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 11378-11383	16.4	4
83	Protocol for synthesis and use of a turn-on fluorescent probe for quantifying labile Zn in the Golgi apparatus in live cells. <i>STAR Protocols</i> , 2021 , 2, 100395	1.4	1
82	Long-Term Mg Imaging in Live Cells with a Targetable Fluorescent Probe. <i>Methods in Molecular Biology</i> , 2021 , 2274, 237-243	1.4	
81	Single-cell dynamics of pannexin-1-facilitated programmed ATP loss during apoptosis. <i>ELife</i> , 2020 , 9,	8.9	12
80	Quantitative Imaging of Labile Zn in the Golgi Apparatus Using a Localizable Small-Molecule Fluorescent Probe. <i>Cell Chemical Biology</i> , 2020 , 27, 1521-1531.e8	8.2	8
79	Improvement in Photostability of Fluorescein by Lanthanide Ions Based on Energy Transfer-based Triplet State Quenching. <i>Chemistry Letters</i> , 2019 , 48, 1181-1184	1.7	1
78	Light-Wavelength-Based Quantitative Control of Dihydrofolate Reductase Activity by Using a Photochromic Isostere of an Inhibitor. <i>ChemBioChem</i> , 2019 , 20, 1382-1386	3.8	5
77	Ratiometric Imaging of Intracellular Mg ²⁺ Dynamics Using a Red Fluorescent Turn-off Probe and a Green Fluorescent Turn-on Probe. <i>Chemistry Letters</i> , 2018 , 47, 23-26	1.7	6
76	Highly Sensitive Detection of Caspase-3/7 Activity in Living Mice Using Enzyme-Responsive F MRI Nanoprobes. <i>Bioconjugate Chemistry</i> , 2018 , 29, 1720-1728	6.3	28
75	Sensing caspase-1 activity using activatable F MRI nanoprobes with improved turn-on kinetics. <i>Chemical Communications</i> , 2018 , 54, 11785-11788	5.8	18
74	Perfluorocarbon-Based ¹⁹ F MRI Nanoprobes for In Vivo Multicolor Imaging. <i>Angewandte Chemie</i> , 2018 , 130, 16984-16989	3.6	3
73	Perfluorocarbon-Based F MRI Nanoprobes for In Vivo Multicolor Imaging. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 16742-16747	16.4	47
72	Targetable fluorescent sensors for advanced cell function analysis. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2017 , 30, 24-35	16.4	10
71	Enzyme-triggered compound release using functionalized antimicrobial peptide derivatives. <i>Chemical Science</i> , 2017 , 8, 3047-3053	9.4	13

70	Visualization of long-term Mg dynamics in apoptotic cells using a novel targetable fluorescent probe. <i>Chemical Science</i> , 2017 , 8, 8255-8264	9.4	20
69	Highly selective tridentate fluorescent probes for visualizing intracellular Mg dynamics without interference from Ca fluctuation. <i>Chemical Communications</i> , 2017 , 53, 10644-10647	5.8	18
68	Intracellular Protein-Labeling Probes for Multicolor Single-Molecule Imaging of Immune Receptor-Adaptor Molecular Dynamics. <i>Journal of the American Chemical Society</i> , 2017 , 139, 17397-17404	16.4	21
67	Real-time intravital imaging of pH variation associated with osteoclast activity. <i>Nature Chemical Biology</i> , 2016 , 12, 579-85	11.7	60
66	Selective Labeling of Proteins on Living Cell Membranes Using Fluorescent Nanodiamond Probes. <i>Nanomaterials</i> , 2016 , 6,	5.4	18
65	An enzyme-responsive metal-enhanced near-infrared fluorescence sensor based on functionalized gold nanoparticles. <i>Chemical Science</i> , 2015 , 6, 4934-4939	9.4	16
64	Mesoporous silica nanoparticles for F magnetic resonance imaging, fluorescence imaging, and drug delivery. <i>Chemical Science</i> , 2015 , 6, 1986-1990	9.4	84
63	Nonlinear fluorescence imaging by photoinduced charge separation. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 042403	1.4	7
62	Activatable ¹⁹ F MRI Nanoparticle Probes for the Detection of Reducing Environments. <i>Angewandte Chemie</i> , 2015 , 127, 1021-1024	3.6	2
61	Activatable ¹⁹ F MRI nanoparticle probes for the detection of reducing environments. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 1007-10	16.4	51
60	Ratiometric MRI sensors based on core-shell nanoparticles for quantitative pH imaging. <i>Advanced Materials</i> , 2014 , 26, 2989-92	24	27
59	Small-molecule-based protein-labeling technology in live cell studies: probe-design concepts and applications. <i>Accounts of Chemical Research</i> , 2014 , 47, 247-56	24.3	68
58	¹ H MRI Detection of Gene Expression in Living Cells by Using Protein Tag and Biotinylation Probe. <i>Chemistry Letters</i> , 2014 , 43, 219-221	1.7	
57	Multifunctional core-shell silica nanoparticles for highly sensitive (¹⁹ F) magnetic resonance imaging. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 1008-11	16.4	60
56	Multifunctional Core-shell Silica Nanoparticles for Highly Sensitive ¹⁹ F Magnetic Resonance Imaging. <i>Angewandte Chemie</i> , 2014 , 126, 1026-1029	3.6	17
55	Membrane protein CNNM4-dependent Mg ²⁺ efflux suppresses tumor progression. <i>Journal of Clinical Investigation</i> , 2014 , 124, 5398-410	15.9	66
54	Efficient formation of luminescent lanthanide(III) complexes by solid-phase synthesis and on-resin screening. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 2685-90	4.5	6
53	Development of cell-impermeable coelenterazine derivatives. <i>Chemical Science</i> , 2013 , 4, 4395	9.4	16

52	pH induced dual "OFF-ON-OFF" switch: influence of a suitably placed carboxylic acid. <i>Organic and Biomolecular Chemistry</i> , 2013 , 11, 563-8	3.9	22
51	Development of luminescent coelenterazine derivatives activatable by β -galactosidase for monitoring dual gene expression. <i>Chemistry - A European Journal</i> , 2013 , 19, 14970-6	4.8	27
50	A nanospherical polymer as an MRI sensor without paramagnetic or superparamagnetic species. <i>Dalton Transactions</i> , 2013 , 42, 15864-7	4.3	5
49	Basolateral Mg ²⁺ extrusion via CNNM4 mediates transcellular Mg ²⁺ transport across epithelia: a mouse model. <i>PLoS Genetics</i> , 2013 , 9, e1003983	6	87
48	2SDA-04 Protein labeling technology for investigating small number molecules in living cells(2SDA Biological functions derived from cooperation of a small number of molecules,Symposium,The 51th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2013 , 53, S94	0	
47	Dynamic visualization of RANKL and Th17-mediated osteoclast function. <i>Journal of Clinical Investigation</i> , 2013 , 123, 866-73	15.9	125
46	Switchable MRI contrast agents based on morphological changes of pH-responsive polymers. <i>Bioorganic and Medicinal Chemistry</i> , 2012 , 20, 769-74	3.4	32
45	No-wash protein labeling with designed fluorogenic probes and application to real-time pulse-chase analysis. <i>Journal of the American Chemical Society</i> , 2012 , 134, 1623-9	16.4	76
44	Development of a fluorogenic probe with a transesterification switch for detection of histone deacetylase activity. <i>Journal of the American Chemical Society</i> , 2012 , 134, 14310-3	16.4	67
43	Simple and real-time colorimetric assay for glycosidases activity using functionalized gold nanoparticles and its application for inhibitor screening. <i>Analytical Chemistry</i> , 2012 , 84, 9089-95	7.8	39
42	Development of ¹⁹ F MRI Probes that Visualize Biological Reactions. <i>Seibutsu Butsuri</i> , 2012 , 52, 024-025	0	
41	Development of Protein-Labeling Probes with a Redesigned Fluorogenic Switch Based on Intramolecular Association for No-Wash Live-Cell Imaging. <i>Angewandte Chemie</i> , 2012 , 124, 5709-5712	3.6	10
40	Development of protein-labeling probes with a redesigned fluorogenic switch based on intramolecular association for no-wash live-cell imaging. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 5611-4	16.4	56
39	Fluorogenic protein labeling through photoinduced electron transfer-based BL-tag technology. <i>Chemistry - an Asian Journal</i> , 2012 , 7, 272-6	4.5	5
38	Inside Cover: Fluorogenic Protein Labeling through Photoinduced Electron Transfer-Based BL-Tag Technology (Chem. Asian J. 2/2012). <i>Chemistry - an Asian Journal</i> , 2012 , 7, 246-246	4.5	
37	(¹⁹ F) MRI monitoring of gene expression in living cells through cell-surface β -lactamase activity. <i>ChemBioChem</i> , 2012 , 13, 1579-83	3.8	21
36	3PT134 Development of enzyme activity detection system using liposome and functional antimicrobial peptide(The 50th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2012 , 52, S163	0	
35	3PS039 Highly sensitive imaging of cell membrane proteins by using lanthanide materials(The 50th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2012 , 52, S153	0	

34	In vivo fluorescence imaging of bone-resorbing osteoclasts. <i>Journal of the American Chemical Society</i> , 2011 , 133, 17772-6	16.4	90
33	¹⁹ F MRI detection of β -galactosidase activity for imaging of gene expression. <i>Chemical Science</i> , 2011 , 2, 1151	9.4	45
32	Development of molecular imaging tools to investigate protein functions by chemical probe design. <i>Chemical and Pharmaceutical Bulletin</i> , 2011 , 59, 1435-46	1.9	13
31	Covalent Protein Labeling with a Lanthanide Complex and Its Application to Photoluminescence Lifetime-Based Multicolor Bioimaging. <i>Angewandte Chemie</i> , 2011 , 123, 8909-8911	3.6	5
30	Covalent protein labeling with a lanthanide complex and its application to photoluminescence lifetime-based multicolor bioimaging. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 8750-2	16.4	54
29	Intracellular protein labeling with prodrug-like probes using a mutant β -lactamase tag. <i>Chemistry - A European Journal</i> , 2011 , 17, 8342-9	4.8	26
28	Cell-surface protein labeling with luminescent nanoparticles through biotinylation by using mutant β -lactamase-tag technology. <i>ChemBioChem</i> , 2011 , 12, 1031-4	3.8	8
27	Switching modulation for protein labeling with activatable fluorescent probes. <i>ChemBioChem</i> , 2011 , 12, 1299-308	3.8	10
26	Sequential ordering among multicolor fluorophores for protein labeling facility via aggregation-elimination based β -lactam probes. <i>Molecular BioSystems</i> , 2011 , 7, 1766-72		9
25	Multicolor protein labeling in living cells using mutant β -lactamase-tag technology. <i>Bioconjugate Chemistry</i> , 2010 , 21, 2320-6	6.3	51
24	Photocontrolled compound release system using caged antimicrobial peptide. <i>Journal of the American Chemical Society</i> , 2010 , 132, 9524-5	16.4	46
23	Turn-on fluorescence switch involving aggregation and elimination processes for β -lactamase-tag. <i>Chemical Communications</i> , 2010 , 46, 7403-5	5.8	28
22	2P253 Development of drug release system controlled by light irradiation(The 48th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2010 , 50, S127	0	
21	Application of a stimuli-responsive polymer to the development of novel MRI probes. <i>ChemBioChem</i> , 2010 , 11, 785-7	3.8	13
20	Dual-Function Probe to Detect Protease Activity for Fluorescence Measurement and ¹⁹ F MRI. <i>Angewandte Chemie</i> , 2009 , 121, 3695-3697	3.6	20
19	Development of ratiometric fluorescent probes for phosphatases by using a pK(a) switching mechanism. <i>ChemBioChem</i> , 2009 , 10, 1465-8	3.8	11
18	Dual-function probe to detect protease activity for fluorescence measurement and ¹⁹ F MRI. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 3641-3	16.4	123
17	Anion sensor-based ratiometric peptide probe for protein kinase activity. <i>Organic Letters</i> , 2009 , 11, 2732-5		26

16	Covalent protein labeling based on noncatalytic beta-lactamase and a designed FRET substrate. <i>Journal of the American Chemical Society</i> , 2009 , 131, 5016-7	16.4	141
15	Photoactive yellow protein-based protein labeling system with turn-on fluorescence intensity. <i>Journal of the American Chemical Society</i> , 2009 , 131, 16610-1	16.4	94
14	Design and synthesis of coumarin-based Zn(2+) probes for ratiometric fluorescence imaging. <i>Inorganic Chemistry</i> , 2009 , 48, 7630-8	5.1	96
13	1SP5-07 Development of lanthanide complex-based probes for in vivo imaging(1SP5 New Developments on Molecular Spectroscopy of Biometals by Young Researchers,The 47th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2009 , 49, S7	0	
12	Paramagnetic relaxation-based 19F MRI probe to detect protease activity. <i>Journal of the American Chemical Society</i> , 2008 , 130, 794-5	16.4	210
11	Lanthanide-based protease activity sensors for time-resolved fluorescence measurements. <i>Journal of the American Chemical Society</i> , 2008 , 130, 14376-7	16.4	95
10	Varying DNA base-pair size in subangstrom increments: evidence for a loose, not large, active site in low-fidelity Dpo4 polymerase. <i>Biochemistry</i> , 2006 , 45, 2772-8	3.2	75
9	Fluorescence Color Modulation by Intramolecular and Intermolecular π Interactions in a Helical Zinc(II) Complex. <i>Chemistry of Materials</i> , 2005 , 17, 50-56	9.6	235
8	Comparison of the bond lengths for the lanthanide complexes of tripodal heptadentate ligands. <i>Journal of Alloys and Compounds</i> , 2004 , 374, 307-310	5.7	19
7	Adjustment of twist angles in pseudo-helical lanthanide complexes by the size of metal ions. <i>Chemistry - A European Journal</i> , 2003 , 9, 1521-8	4.8	56
6	First helical zinc(II) complex with a salen ligand. <i>Chemical Communications</i> , 2003 , 1148-9	5.8	66
5	A fluorescent anion sensor that works in neutral aqueous solution for bioanalytical application. <i>Journal of the American Chemical Society</i> , 2002 , 124, 3920-5	16.4	342
4	Design and Synthesis of Intramolecular Resonance-Energy Transfer Probes for Use in Ratiometric Measurements in Aqueous Solution. <i>Angewandte Chemie</i> , 2000 , 112, 3580-3582	3.6	10
3	Design and Synthesis of Intramolecular Resonance-Energy Transfer Probes for Use in Ratiometric Measurements in Aqueous Solution. <i>Angewandte Chemie - International Edition</i> , 2000 , 39, 3438-3440	16.4	50
2	Development of a time-resolved fluorometric detection system using diffusion-enhanced energy transfer. <i>Analytical Chemistry</i> , 2000 , 72, 4904-7	7.8	7
1	Imaging of caspase-3 activation in HeLa cells stimulated with etoposide using a novel fluorescent probe. <i>FEBS Letters</i> , 1999 , 453, 356-60	3.8	97