

Shin Mizukami

List of Publications by Year in descending order

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83
papers

4,112
citations

126708

33
h-index

114278

63
g-index

96
all docs

96
docs citations

96
times ranked

5207
citing authors

#	ARTICLE	IF	CITATIONS
1	A Fluorescent Anion Sensor That Works in Neutral Aqueous Solution for Bioanalytical Application. <i>Journal of the American Chemical Society</i> , 2002, 124, 3920-3925.	6.6	367
2	Fluorescence Color Modulation by Intramolecular and Intermolecular π - π Interactions in a Helical Zinc(II) Complex. <i>Chemistry of Materials</i> , 2005, 17, 50-56.	3.2	243
3	Paramagnetic Relaxation-Based ^{19}F MRI Probe To Detect Protease Activity. <i>Journal of the American Chemical Society</i> , 2008, 130, 794-795.	6.6	234
4	Covalent Protein Labeling Based on Noncatalytic β -Lactamase and a Designed FRET Substrate. <i>Journal of the American Chemical Society</i> , 2009, 131, 5016-5017.	6.6	159
5	Dynamic visualization of RANKL and Th17-mediated osteoclast function. <i>Journal of Clinical Investigation</i> , 2013, 123, 866-73.	3.9	141
6	Dual-Function Probe to Detect Protease Activity for Fluorescence Measurement and ^{19}F MRI. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 3641-3643.	7.2	135
7	Basolateral Mg^{2+} Extrusion via CNNM4 Mediates Transcellular Mg^{2+} Transport across Epithelia: A Mouse Model. <i>PLoS Genetics</i> , 2013, 9, e1003983.	1.5	130
8	Imaging of caspase-3 activation in HeLa cells stimulated with etoposide using a novel fluorescent probe. <i>FEBS Letters</i> , 1999, 453, 356-360.	1.3	108
9	In Vivo Fluorescence Imaging of Bone-Resorbing Osteoclasts. <i>Journal of the American Chemical Society</i> , 2011, 133, 17772-17776.	6.6	108
10	Mesoporous silica nanoparticles for ^{19}F magnetic resonance imaging, fluorescence imaging, and drug delivery. <i>Chemical Science</i> , 2015, 6, 1986-1990.	3.7	108
11	Photoactive Yellow Protein-Based Protein Labeling System with Turn-On Fluorescence Intensity. <i>Journal of the American Chemical Society</i> , 2009, 131, 16610-16611.	6.6	107
12	Lanthanide-Based Protease Activity Sensors for Time-Resolved Fluorescence Measurements. <i>Journal of the American Chemical Society</i> , 2008, 130, 14376-14377.	6.6	104
13	Design and Synthesis of Coumarin-Based Zn^{2+} Probes for Ratiometric Fluorescence Imaging. <i>Inorganic Chemistry</i> , 2009, 48, 7630-7638.	1.9	103
14	Membrane protein CNNM4-dependent Mg^{2+} efflux suppresses tumor progression. <i>Journal of Clinical Investigation</i> , 2014, 124, 5398-5410.	3.9	93
15	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, 1623-1629.	6.6	82
16	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, 14310-14313.	6.6	80
17	Small-Molecule-Based Protein-Labeling Technology in Live Cell Studies: Probe-Design Concepts and Applications. <i>Accounts of Chemical Research</i> , 2014, 47, 247-256.	7.6	80
18	Real-time intravital imaging of pH variation associated with osteoclast activity. <i>Nature Chemical Biology</i> , 2016, 12, 579-585.	3.9	80

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19	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, 2772-2778.	1.2	77
20	Multifunctional Core-Shell Silica Nanoparticles for Highly Sensitive ¹⁹ F-Magnetic Resonance Imaging. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1008-1011.	7.2	73
21	Activatable ¹⁹ F MRI Nanoparticle Probes for the Detection of Reducing Environments. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1007-1010.	7.2	73
22	Perfluorocarbon-Based ¹⁹ F-MRI Nanoprobes for In Vivo Multicolor Imaging. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16742-16747.	7.2	73
23	First helical zinc(ii) complex with a salen ligand. <i>Chemical Communications</i> , 2003, , 1148-1149.	2.2	67
24	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, 5611-5614.	7.2	62
25	Adjustment of Twist Angles in Pseudo-Helical Lanthanide Complexes by the Size of Metal Ions. <i>Chemistry - A European Journal</i> , 2003, 9, 1521-1528.	1.7	61
26	Multicolor Protein Labeling in Living Cells Using Mutant β -Lactamase-Tag Technology. <i>Bioconjugate Chemistry</i> , 2010, 21, 2320-2326.	1.8	60
27	Covalent Protein Labeling with a Lanthanide Complex and Its Application to Photoluminescence Lifetime-Based Multicolor Bioimaging. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 8750-8752.	7.2	58
28	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.	7.2	55
29	¹⁹ F MRI detection of β -galactosidase activity for imaging of gene expression. <i>Chemical Science</i> , 2011, 2, 1151.	3.7	54
30	Photocontrolled Compound Release System Using Caged Antimicrobial Peptide. <i>Journal of the American Chemical Society</i> , 2010, 132, 9524-9525.	6.6	53
31	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, 9089-9095.	3.2	48
32	Highly Sensitive Detection of Caspase-3/7 Activity in Living Mice Using Enzyme-Responsive ¹⁹ F MRI Nanoprobes. <i>Bioconjugate Chemistry</i> , 2018, 29, 1720-1728.	1.8	44
33	Switchable MRI contrast agents based on morphological changes of pH-responsive polymers. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 769-774.	1.4	35
34	Development of Luminescent Coelenterazine Derivatives Activatable by β -Galactosidase for Monitoring Dual Gene Expression. <i>Chemistry - A European Journal</i> , 2013, 19, 14970-14976.	1.7	34
35	Single-cell dynamics of pannexin-1-facilitated programmed ATP loss during apoptosis. <i>ELife</i> , 2020, 9, .	2.8	34
36	Turn-on fluorescence switch involving aggregation and elimination processes for β -lactamase-tag. <i>Chemical Communications</i> , 2010, 46, 7403.	2.2	31

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37	Ratiometric MRI Sensors Based on Core-Shell Nanoparticles for Quantitative pH Imaging. <i>Advanced Materials</i> , 2014, 26, 2989-2992.	11.1	31
38	Sensing caspase-1 activity using activatable ¹⁹ F MRI nanoprobe with improved turn-on kinetics. <i>Chemical Communications</i> , 2018, 54, 11785-11788.	2.2	30
39	Anion Sensor-Based Ratiometric Peptide Probe for Protein Kinase Activity. <i>Organic Letters</i> , 2009, 11, 2732-2735.	2.4	29
40	Intracellular Protein Labeling with Prodrug-Like Probes Using a Mutant β -Lactamase Tag. <i>Chemistry - A European Journal</i> , 2011, 17, 8342-8349.	1.7	29
41	Quantitative Imaging of Labile Zn ²⁺ in the Golgi Apparatus Using a Localizable Small-Molecule Fluorescent Probe. <i>Cell Chemical Biology</i> , 2020, 27, 1521-1531.e8.	2.5	29
42	Visualization of long-term Mg ²⁺ dynamics in apoptotic cells using a novel targetable fluorescent probe. <i>Chemical Science</i> , 2017, 8, 8255-8264.	3.7	28
43	¹⁹ F MRI Monitoring of Gene Expression in Living Cells through Cell Surface β -Lactamase Activity. <i>ChemBioChem</i> , 2012, 13, 1579-1583.	1.3	27
44	Organelle-Level Labile Zn ²⁺ Mapping Based on Targetable Fluorescent Sensors. <i>ACS Sensors</i> , 2022, 7, 748-757.	4.0	26
45	Selective Labeling of Proteins on Living Cell Membranes Using Fluorescent Nanodiamond Probes. <i>Nanomaterials</i> , 2016, 6, 56.	1.9	24
46	Highly selective tridentate fluorescent probes for visualizing intracellular Mg ²⁺ dynamics without interference from Ca ²⁺ fluctuation. <i>Chemical Communications</i> , 2017, 53, 10644-10647.	2.2	24
47	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.	6.6	24
48	pH Induced dual ON-OFF switch: influence of a suitably placed carboxylic acid. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 563-568.	1.5	23
49	An enzyme-responsive metal-enhanced near-infrared fluorescence sensor based on functionalized gold nanoparticles. <i>Chemical Science</i> , 2015, 6, 4934-4939.	3.7	23
50	Comparison of the bond lengths for the lanthanide complexes of tripodal heptadentate ligands. <i>Journal of Alloys and Compounds</i> , 2004, 374, 307-310.	2.8	20
51	Development of cell-impermeable coelenterazine derivatives. <i>Chemical Science</i> , 2013, 4, 4395.	3.7	19
52	Enzyme-triggered compound release using functionalized antimicrobial peptide derivatives. <i>Chemical Science</i> , 2017, 8, 3047-3053.	3.7	16
53	Development of Molecular Imaging Tools to Investigate Protein Functions by Chemical Probe Design. <i>Chemical and Pharmaceutical Bulletin</i> , 2011, 59, 1435-1446.	0.6	15
54	Application of a Stimuli-Responsive Polymer to the Development of Novel MRI Probes. <i>ChemBioChem</i> , 2010, 11, 785-787.	1.3	14

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55	Development of Ratiometric Fluorescent Probes for Phosphatases by Using a p <i>K_a</i> Switching Mechanism. <i>ChemBioChem</i> , 2009, 10, 1465-1468.	1.3	12
56	Targetable fluorescent sensors for advanced cell function analysis. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2017, 30, 24-35.	5.6	12
57	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.	0.7	12
58	Switching Modulation for Protein Labeling with Activatable Fluorescent Probes. <i>ChemBioChem</i> , 2011, 12, 1299-1308.	1.3	11
59	Perfluorocarbon-Based ¹⁹ F MRI Nanoprobes for In Vivo Multicolor Imaging. <i>Angewandte Chemie</i> , 2018, 130, 16984-16989.	1.6	11
60	Nonlinear fluorescence imaging by photoinduced charge separation. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 042403.	0.8	10
61	Light Wavelength-Based Quantitative Control of Dihydrofolate Reductase Activity by Using a Photochromic Isostere of an Inhibitor. <i>ChemBioChem</i> , 2019, 20, 1382-1386.	1.3	10
62	Development of a Time-Resolved Fluorometric Detection System Using Diffusion-Enhanced Energy Transfer. <i>Analytical Chemistry</i> , 2000, 72, 4904-4907.	3.2	9
63	Sequential ordering among multicolor fluorophores for protein labeling facility via aggregation-elimination based β -lactam probes. <i>Molecular BioSystems</i> , 2011, 7, 1766.	2.9	9
64	Cell Surface Protein Labeling with Luminescent Nanoparticles through Biotinylation by Using Mutant β -Lactamase-Tag Technology. <i>ChemBioChem</i> , 2011, 12, 1031-1034.	1.3	9
65	Optical Manipulation of Subcellular Protein Translocation Using a Photoactivatable Covalent Labeling System. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11378-11383.	7.2	9
66	Efficient Formation of Luminescent Lanthanide(III) Complexes by Solid-Phase Synthesis and On-Resin Screening. <i>Chemistry - an Asian Journal</i> , 2013, 8, 2685-2690.	1.7	7
67	Clip to Click: Controlling Inverse Electron-Demand Diels-Alder Reactions with Macrocyclic Tetrazines. <i>Organic Letters</i> , 2022, 24, 3223-3226.	2.4	7
68	Fluorogenic Protein Labeling through Photoinduced Electron Transfer-Based BL-Tag Technology. <i>Chemistry - an Asian Journal</i> , 2012, 7, 272-276.	1.7	6
69	A nanospherical polymer as an MRI sensor without paramagnetic or superparamagnetic species. <i>Dalton Transactions</i> , 2013, 42, 15864.	1.6	6
70	Protocol for synthesis and use of a turn-on fluorescent probe for quantifying labile Zn ²⁺ in the Golgi apparatus in live cells. <i>STAR Protocols</i> , 2021, 2, 100395.	0.5	6
71	Improvement in Photostability of Fluorescein by Lanthanide Ions Based on Energy Transfer-based Triplet State Quenching. <i>Chemistry Letters</i> , 2019, 48, 1181-1184.	0.7	3
72	Optical Manipulation of Subcellular Protein Translocation Using a Photoactivatable Covalent Labeling System. <i>Angewandte Chemie</i> , 2021, 133, 11479-11484.	1.6	2

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73	2P253 Development of drug release system controlled by light irradiation(The 48th Annual Meeting of) Tj ETQq1 1 0.784314 rgBT /Over	0.0	0
74	3PT134 Development of enzyme activity detection system using liposome and functional antimicrobial peptide(The 50th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2012, 52, S163.	0.0	0
75	3PS039 Highly sensitive imaging of cell membrane proteins by using lanthanide materials(The 50th) Tj ETQq1 1 0.784314 rgBT /Over	0.0	0
76	Development of ¹⁹ F MRI Probes that Visualize Biological Reactions. Seibutsu Butsuri, 2012, 52, 024-025.	0.0	0
77	Inside Cover: Fluorogenic Protein Labeling through Photoinduced Electron Transfer-Based BL-Tag Technology (Chem. Asian J. 2/2012). Chemistry - an Asian Journal, 2012, 7, 246-246.	1.7	0
78	2SDA-04 Protein labeling technology for investigating small number molecules in living cells(2SDA) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.0	0
79	¹ H MRI Detection of Gene Expression in Living Cells by Using Protein Tag and Biotinylation Probe. Chemistry Letters, 2014, 43, 219-221.	0.7	0
80	Nonlinear fluorescence probe using photoinduced charge separation (Presentation Recording). , 2015, , ,		0
81	Long-Term Mg ²⁺ Imaging in Live Cells with a Targetable Fluorescent Probe. Methods in Molecular Biology, 2021, 2274, 237-243.	0.4	0
82	1SP5-07 Development of lanthanide complex-based probes for in vivo imaging(1SP5 New Developments) Tj ETQq0 0 0 rgBT /Overlock 1	0.0	0
83	Fluorescent Probes for the Quantification of Labile Metal Ions in Living Cells. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2021, 79, 1020-1032.	0.0	0