

Shin Mizukami

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3493166/shin-mizukami-publications-by-citations.pdf>

Version: 2024-04-20

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.

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	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
86	Fluorescence Color Modulation by Intramolecular and Intermolecular Interactions in a Helical Zinc(II) Complex. <i>Chemistry of Materials</i> , 2005 , 17, 50-56	9.6	235
85	Paramagnetic relaxation-based ¹⁹ F MRI probe to detect protease activity. <i>Journal of the American Chemical Society</i> , 2008 , 130, 794-5	16.4	210
84	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
83	Dynamic visualization of RANKL and Th17-mediated osteoclast function. <i>Journal of Clinical Investigation</i> , 2013 , 123, 866-73	15.9	125
82	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
81	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
80	Design and synthesis of coumarin-based Zn(2+) probes for ratiometric fluorescence imaging. <i>Inorganic Chemistry</i> , 2009 , 48, 7630-8	5.1	96
79	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
78	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
77	In vivo fluorescence imaging of bone-resorbing osteoclasts. <i>Journal of the American Chemical Society</i> , 2011 , 133, 17772-6	16.4	90
76	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
75	Mesoporous silica nanoparticles for ¹⁹ F magnetic resonance imaging, fluorescence imaging, and drug delivery. <i>Chemical Science</i> , 2015 , 6, 1986-1990	9.4	84
74	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
73	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
72	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
71	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

70	First helical zinc(II) complex with a salen ligand. <i>Chemical Communications</i> , 2003 , 1148-9	5.8	66
69	Membrane protein CNNM4-dependent Mg ²⁺ efflux suppresses tumor progression. <i>Journal of Clinical Investigation</i> , 2014 , 124, 5398-410	15.9	66
68	Real-time intravital imaging of pH variation associated with osteoclast activity. <i>Nature Chemical Biology</i> , 2016 , 12, 579-85	11.7	60
67	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
66	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
65	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
64	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
63	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
62	Multicolor protein labeling in living cells using mutant β -lactamase-tag technology. <i>Bioconjugate Chemistry</i> , 2010 , 21, 2320-6	6.3	51
61	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
60	Perfluorocarbon-Based ¹⁹ F MRI Nanoprobes for In Vivo Multicolor Imaging. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 16742-16747	16.4	47
59	Photocontrolled compound release system using caged antimicrobial peptide. <i>Journal of the American Chemical Society</i> , 2010 , 132, 9524-5	16.4	46
58	¹⁹ F MRI detection of β -galactosidase activity for imaging of gene expression. <i>Chemical Science</i> , 2011 , 2, 1151	9.4	45
57	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
56	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
55	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	6.3	28
54	Turn-on fluorescence switch involving aggregation and elimination processes for β -lactamase-tag. <i>Chemical Communications</i> , 2010 , 46, 7403-5	5.8	28
53	Ratiometric MRI sensors based on core-shell nanoparticles for quantitative pH imaging. <i>Advanced Materials</i> , 2014 , 26, 2989-92	24	27

52	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
51	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
50	Anion sensor-based ratiometric peptide probe for protein kinase activity. <i>Organic Letters</i> , 2009 , 11, 2732-5	4.8	26
49	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
48	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
47	(^{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
46	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
45	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
44	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
43	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
42	Selective Labeling of Proteins on Living Cell Membranes Using Fluorescent Nanodiamond Probes. <i>Nanomaterials</i> , 2016 , 6,	5.4	18
41	Sensing caspase-1 activity using activatable ^{19}F MRI nanoprobes with improved turn-on kinetics. <i>Chemical Communications</i> , 2018 , 54, 11785-11788	5.8	18
40	Multifunctional Core-Shell Silica Nanoparticles for Highly Sensitive ^{19}F Magnetic Resonance Imaging. <i>Angewandte Chemie</i> , 2014 , 126, 1026-1029	3.6	17
39	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
38	Development of cell-impermeable coelenterazine derivatives. <i>Chemical Science</i> , 2013 , 4, 4395	9.4	16
37	Enzyme-triggered compound release using functionalized antimicrobial peptide derivatives. <i>Chemical Science</i> , 2017 , 8, 3047-3053	9.4	13
36	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
35	Application of a stimuli-responsive polymer to the development of novel MRI probes. <i>ChemBioChem</i> , 2010 , 11, 785-7	3.8	13

34	Single-cell dynamics of pannexin-1-facilitated programmed ATP loss during apoptosis. <i>ELife</i> , 2020 , 9,	8.9	12
33	Development of ratiometric fluorescent probes for phosphatases by using a pK(a) switching mechanism. <i>ChemBioChem</i> , 2009 , 10, 1465-8	3.8	11
32	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
31	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
30	Switching modulation for protein labeling with activatable fluorescent probes. <i>ChemBioChem</i> , 2011 , 12, 1299-308	3.8	10
29	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
28	Sequential ordering among multicolor fluorophores for protein labeling facility via aggregation-elimination based lactam probes. <i>Molecular BioSystems</i> , 2011 , 7, 1766-72		9
27	Cell-surface protein labeling with luminescent nanoparticles through biotinylation by using mutant lactamase-tag technology. <i>ChemBioChem</i> , 2011 , 12, 1031-4	3.8	8
26	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
25	Nonlinear fluorescence imaging by photoinduced charge separation. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 042403	1.4	7
24	Development of a time-resolved fluorometric detection system using diffusion-enhanced energy transfer. <i>Analytical Chemistry</i> , 2000 , 72, 4904-7	7.8	7
23	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
22	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
21	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
20	Fluorogenic protein labeling through photoinduced electron transfer-based BL-tag technology. <i>Chemistry - an Asian Journal</i> , 2012 , 7, 272-6	4.5	5
19	A nanospherical polymer as an MRI sensor without paramagnetic or superparamagnetic species. <i>Dalton Transactions</i> , 2013 , 42, 15864-7	4.3	5
18	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
17	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

16	Perfluorocarbon-Based ¹⁹ F MRI Nanoprobes for In Vivo Multicolor Imaging. <i>Angewandte Chemie</i> , 2018 , 130, 16984-16989	3.6	3
15	Activatable ¹⁹ F MRI Nanoparticle Probes for the Detection of Reducing Environments. <i>Angewandte Chemie</i> , 2015 , 127, 1021-1024	3.6	2
14	Optical Manipulation of Subcellular Protein Translocation Using a Photoactivatable Covalent Labeling System. <i>Angewandte Chemie</i> , 2021 , 133, 11479-11484	3.6	2
13	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
12	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
11	Clip to Click: Controlling Inverse Electron-Demand Diels-Alder Reactions with Macrocyclic Tetrazines.. <i>Organic Letters</i> , 2022 ,	6.2	1
10	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	
9	Development of ¹⁹ F MRI Probes that Visualize Biological Reactions. <i>Seibutsu Butsuri</i> , 2012 , 52, 024-025 ○		
8	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	
7	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	○	
6	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	○	
5	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	○	
4	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	○	
3	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	
2	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	○	
1	Long-Term Mg Imaging in Live Cells with a Targetable Fluorescent Probe. <i>Methods in Molecular Biology</i> , 2021 , 2274, 237-243	1.4	