

Kazuya Kikuchi

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.

197
papers

14,556
citations

63
h-index

118
g-index

211
ext. papers

15,709
ext. citations

9.1
avg, IF

6.42
L-index

#	Paper	IF	Citations
197	An "OFF-ON-OFF" fluorescence protein-labeling probe for real-time visualization of the degradation of short-lived proteins in cellular systems.. <i>Chemical Science</i> , 2022 , 13, 1419-1427	9.4	0
196	Optical Manipulation of Subcellular Protein Translocation Using a Photoactivatable Covalent Labeling System. <i>Angewandte Chemie</i> , 2021 , 133, 11479-11484	3.6	2
195	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
194	A step towards gadolinium-free bioresponsive MRI contrast agent. <i>European Journal of Medicinal Chemistry</i> , 2021 , 211, 113086	6.8	2
193	Cardioluminescence in Transgenic Zebrafish Larvae: A Calcium Imaging Tool to Study Drug Effects and Pathological Modeling. <i>Biomedicines</i> , 2021 , 9,	4.8	2
192	Anti-Siglec-15 antibody suppresses bone resorption by inhibiting osteoclast multinucleation without attenuating bone formation. <i>Bone</i> , 2021 , 152, 116095	4.7	2
191	Fluorogenic probes for detecting deacylase and demethylase activity towards post-translationally-modified lysine residues. <i>Chemical Science</i> , 2021 , 12, 2498-2503	9.4	2
190	Rapid no-wash labeling of PYP-tag proteins with reactive fluorogenic ligands affords stable fluorescent protein conjugates for long-term cell imaging studies. <i>Chemical Science</i> , 2020 , 11, 3694-3701	9.4	6
189	Sensing Peroxynitrite in Different Organelles of Murine RAW264.7 Macrophages With Coumarin-Based Fluorescent Probes. <i>Frontiers in Chemistry</i> , 2020 , 8, 39	5	6
188	Single-cell dynamics of pannexin-1-facilitated programmed ATP loss during apoptosis. <i>ELife</i> , 2020 , 9,	8.9	12
187	Development of Photoswitchable Fluorescent Molecules Using Arylazopyrazole. <i>Bulletin of the Chemical Society of Japan</i> , 2020 , 93, 821-824	5.1	
186	Photolytic Release of a Caged Inhibitor of an Endogenous Transcription Factor Enables Optochemical Control of CREB-Mediated Gene Expression. <i>Organic Letters</i> , 2020 , 22, 22-25	6.2	5
185	Engineered Protein-tag for Rapid Live-cell Fluorogenic Visualization of Proteins by Anionic Probes. <i>Chemistry Letters</i> , 2020 , 49, 232-235	1.7	2
184	Live-Cell Imaging of Protein Degradation Utilizing Designed Protein-Tag Mutant and Fluorescent Probe with Turn-Off Switch. <i>Bioconjugate Chemistry</i> , 2020 , 31, 577-583	6.3	4
183	Oxygen Functional Groups on MWCNT Surface as Critical Factor Boosting Relaxation Rate of Water Protons: Towards Improved CNT-Based Contrast Agents. <i>International Journal of Nanomedicine</i> , 2020 , 15, 7433-7450	7.3	4
182	An Acid-Activatable Fluorescence Probe for Imaging Osteocytic Bone Resorption Activity in Deep Bone Cavities. <i>Angewandte Chemie</i> , 2020 , 132, 21182-21186	3.6	3
181	An Acid-Activatable Fluorescence Probe for Imaging Osteocytic Bone Resorption Activity in Deep Bone Cavities. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 20996-21000	16.4	13

180	A Photodeactivatable Antagonist for Controlling CREB-Dependent Gene Expression. <i>ACS Central Science</i> , 2020 , 6, 1813-1818	16.8	1
179	Development of Fluorogenic Probes for Rapid High-Contrast Imaging of Transient Nuclear Localization of Sirtuin 3. <i>ChemBioChem</i> , 2020 , 21, 656-662	3.8	9
178	Near-infrared fluorescent probes: a next-generation tool for protein-labeling applications. <i>Chemical Science</i> , 2020 , 12, 3437-3447	9.4	20
177	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
176	Chemical Tools with Fluorescence Switches for Verifying Epigenetic Modifications. <i>Accounts of Chemical Research</i> , 2019 , 52, 2849-2857	24.3	10
175	Development of an effective protein-labeling system based on smart fluorogenic probes. <i>Journal of Biological Inorganic Chemistry</i> , 2019 , 24, 443-455	3.7	1
174	Multicolor Imaging with Fluorescent Probes Revealed the Dynamics and Function of Osteoclast Proton Pumps. <i>ACS Central Science</i> , 2019 , 5, 1059-1066	16.8	21
173	SCOTfluors: Small, Conjugatable, Orthogonal, and Tunable Fluorophores for In Vivo Imaging of Cell Metabolism. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 6911-6915	16.4	56
172	SCOTfluors: Small, Conjugatable, Orthogonal, and Tunable Fluorophores for In Vivo Imaging of Cell Metabolism. <i>Angewandte Chemie</i> , 2019 , 131, 6985-6989	3.6	19
171	Photoactive yellow protein and its chemical probes: an approach to protein labelling in living cells. <i>Journal of Biochemistry</i> , 2019 , 166, 121-127	3.1	4
170	Synthetic-Molecule/Protein Hybrid Probe with Fluorogenic Switch for Live-Cell Imaging of DNA Methylation. <i>Journal of the American Chemical Society</i> , 2018 , 140, 1686-1690	16.4	72
169	Direct cell-cell contact between mature osteoblasts and osteoclasts dynamically controls their functions in vivo. <i>Nature Communications</i> , 2018 , 9, 300	17.4	89
168	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
167	Highly Sensitive Detection of Caspase-3/7 Activity in Living Mice Using Enzyme-Responsive F MRI Nanoprobe. <i>Bioconjugate Chemistry</i> , 2018 , 29, 1720-1728	6.3	28
166	visualisation of different modes of action of biological DMARDs inhibiting osteoclastic bone resorption. <i>Annals of the Rheumatic Diseases</i> , 2018 , 77, 1219-1225	2.4	12
165	Live-Cell Imaging of DNA Methylation Based on Synthetic-Molecule/Protein Hybrid Probe. <i>Chemical Record</i> , 2018 , 18, 1672-1680	6.6	2
164	Dynamic Analyses of the Short-Term Effects of Different Bisphosphonates Using Intravital Two-Photon Microscopy. <i>JBMR Plus</i> , 2018 , 2, 362-366	3.9	4
163	Sensing caspase-1 activity using activatable F MRI nanoprobe with improved turn-on kinetics. <i>Chemical Communications</i> , 2018 , 54, 11785-11788	5.8	18

162	Perfluorocarbon-Based ¹⁹ F MRI Nanoprobes for In Vivo Multicolor Imaging. <i>Angewandte Chemie</i> , 2018 , 130, 16984-16989	3.6	3
161	Perfluorocarbon-Based ¹⁹ F MRI Nanoprobes for In Vivo Multicolor Imaging. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 16742-16747	16.4	47
160	Photostable and photoswitching fluorescent dyes for super-resolution imaging. <i>Journal of Biological Inorganic Chemistry</i> , 2017 , 22, 639-652	3.7	38
159	Enzyme-triggered compound release using functionalized antimicrobial peptide derivatives. <i>Chemical Science</i> , 2017 , 8, 3047-3053	9.4	13
158	Development of cyanine probes with dinitrobenzene quencher for rapid fluorogenic protein labelling. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017 , 375,	3	6
157	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
156	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
155	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
154	Design of a protein tag and fluorogenic probe with modular structure for live-cell imaging of intracellular proteins. <i>Chemical Science</i> , 2016 , 7, 308-314	9.4	17
153	Fluorogenic probes reveal a role of GLUT4 N-glycosylation in intracellular trafficking. <i>Nature Chemical Biology</i> , 2016 , 12, 853-9	11.7	38
152	Real-time intravital imaging of pH variation associated with osteoclast activity. <i>Nature Chemical Biology</i> , 2016 , 12, 579-85	11.7	60
151	Modified polysaccharides as potential (¹⁹ F) magnetic resonance contrast agents. <i>Carbohydrate Research</i> , 2016 , 428, 72-8	2.9	2
150	Chemical Tools for Elucidation of Epigenetic Mechanisms 2016 , 1-35		
149	Selective Labeling of Proteins on Living Cell Membranes Using Fluorescent Nanodiamond Probes. <i>Nanomaterials</i> , 2016 , 6,	5.4	18
148	Fabrication of Clickable Polyfluorene Nanowires with High Aspect Ratio as Biological Sensing Platforms. <i>ACS Sensors</i> , 2016 , 1, 766-774	9.2	8
147	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
146	BODIPY-based probes for the fluorescence imaging of biomolecules in living cells. <i>Chemical Society Reviews</i> , 2015 , 44, 4953-72	58.5	855
145	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

144	Chemical tools for probing histone deacetylase (HDAC) activity. <i>Analytical Sciences</i> , 2015 , 31, 287-92	1.7	10
143	¹⁹ F MRI Probes with Tunable Switches and Highly Sensitive ¹⁹ F MRI Nanoprobes. <i>Bulletin of the Chemical Society of Japan</i> , 2015 , 88, 518-521	5.1	7
142	Activatable ¹⁹ F MRI Nanoparticle Probes for the Detection of Reducing Environments. <i>Angewandte Chemie</i> , 2015 , 127, 1021-1024	3.6	2
141	Redesign of a Fluorogenic Labeling System To Improve Surface Charge, Brightness, and Binding Kinetics for Imaging the Functional Localization of Bromodomains. <i>Angewandte Chemie</i> , 2015 , 127, 14576-14579	3.6	9
140	Redesign of a Fluorogenic Labeling System To Improve Surface Charge, Brightness, and Binding Kinetics for Imaging the Functional Localization of Bromodomains. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 14368-71	16.4	25
139	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
138	Intramolecular long-distance nucleophilic reactions as a rapid fluorogenic switch applicable to the detection of enzymatic activity. <i>Chemistry - A European Journal</i> , 2015 , 21, 4695-702	4.8	18
137	Ratiometric MRI sensors based on core-shell nanoparticles for quantitative pH imaging. <i>Advanced Materials</i> , 2014 , 26, 2989-92	24	27
136	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
135	Development of a fluorogenic probe based on a DNA staining dye for continuous monitoring of the histone deacetylase reaction. <i>Analytical Chemistry</i> , 2014 , 86, 7925-30	7.8	23
134	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	
133	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
132	Multifunctional Core-shell Silica Nanoparticles for Highly Sensitive ¹⁹ F Magnetic Resonance Imaging. <i>Angewandte Chemie</i> , 2014 , 126, 1026-1029	3.6	17
131	Membrane protein CNNM4-dependent Mg ²⁺ efflux suppresses tumor progression. <i>Journal of Clinical Investigation</i> , 2014 , 124, 5398-410	15.9	66
130	Development of fluorogenic probes for quick no-wash live-cell imaging of intracellular proteins. <i>Journal of the American Chemical Society</i> , 2013 , 135, 12360-5	16.4	87
129	Development of cell-impermeable coelenterazine derivatives. <i>Chemical Science</i> , 2013 , 4, 4395	9.4	16
128	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
127	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

126	Protein labeling with fluorogenic probes for no-wash live-cell imaging of proteins. <i>Current Opinion in Chemical Biology</i> , 2013 , 17, 644-50	9.7	48
125	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
124	Dynamic visualization of RANKL and Th17-mediated osteoclast function. <i>Journal of Clinical Investigation</i> , 2013 , 123, 866-73	15.9	125
123	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
122	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
121	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
120	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
119	A fluorescent probe for detection of histone deacetylase activity based on aggregation-induced emission. <i>Chemical Communications</i> , 2012 , 48, 11534-6	5.8	60
118	1C1424 Fluorescent Probe for the Direct Detection of Histone Deacetylase Activity(Proteins: Measurement, Analysis, Engineering, Oral Presentation, The 50th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2012 , 52, S23	○	
117	Development of 19F MRI Probes that Visualize Biological Reactions. <i>Seibutsu Butsuri</i> , 2012 , 52, 024-025	○	
116	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
115	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
114	(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
113	Salicylic-acid derivatives as antennae for ratiometric luminescent probes based on lanthanide complexes. <i>Chemistry - A European Journal</i> , 2012 , 18, 7377-81	4.8	24
112	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	○	
111	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	○	
110	3PS043 Development of nanocapsule probes for sensitive ¹⁹ F MRI(The 50th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2012 , 52, S153	○	
109	In vivo fluorescence imaging of bone-resorbing osteoclasts. <i>Journal of the American Chemical Society</i> , 2011 , 133, 17772-6	16.4	90

108	19F MRI detection of β -galactosidase activity for imaging of gene expression. <i>Chemical Science</i> , 2011 , 2, 1151	9.4	45
107	2SB-02 DESIGN, SYNTHESIS AND BIOLOGICAL APPLICATION OF MOLECULAR IMAGING PROBES WITH TUNABLE CHEMICAL SWITCHES(2SB Frontiers in chemical biology for in-cell biophysics,The 49th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2011 , 51, S15	0	
106	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
105	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
104	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
103	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
102	Switching modulation for protein labeling with activatable fluorescent probes. <i>ChemBioChem</i> , 2011 , 12, 1299-308	3.8	10
101	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
100	Two distinct amyloid beta-protein (Abeta) assembly pathways leading to oligomers and fibrils identified by combined fluorescence correlation spectroscopy, morphology, and toxicity analyses. <i>Journal of Biological Chemistry</i> , 2011 , 286, 11555-62	5.4	84
99	Multicolor protein labeling in living cells using mutant β -lactamase-tag technology. <i>Bioconjugate Chemistry</i> , 2010 , 21, 2320-6	6.3	51
98	Photocontrolled compound release system using caged antimicrobial peptide. <i>Journal of the American Chemical Society</i> , 2010 , 132, 9524-5	16.4	46
97	Turn-on fluorescence switch involving aggregation and elimination processes for β -lactamase-tag. <i>Chemical Communications</i> , 2010 , 46, 7403-5	5.8	28
96	Design, synthesis, and biological application of fluorescent sensor molecules for cellular imaging. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2010 , 119, 63-78	1.7	12
95	3P330 Development of Photoactive Yellow Protein-based Protein Labeling System with Designed Fluorogenic Probe(Bioimaging,The 48th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2010 , 50, S203	0	
94	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	
93	Design, synthesis and biological application of chemical probes for bio-imaging. <i>Chemical Society Reviews</i> , 2010 , 39, 2048-53	58.5	221
92	Application of a stimuli-responsive polymer to the development of novel MRI probes. <i>ChemBioChem</i> , 2010 , 11, 785-7	3.8	13
91	Noncovalent-interaction-promoted ligation for protein labeling. <i>ChemBioChem</i> , 2010 , 11, 646-8	3.8	5

90	Zinc is an essential trace element for spermatogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 10859-64	11.5	126
89	Development of ratiometric fluorescent probes for phosphatases by using a pK(a) switching mechanism. <i>ChemBioChem</i> , 2009 , 10, 1465-8	3.8	11
88	Dual-function probe to detect protease activity for fluorescence measurement and 19F MRI. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 3641-3	16.4	123
87	Anion sensor-based ratiometric peptide probe for protein kinase activity. <i>Organic Letters</i> , 2009 , 11, 2732-5	2.6	26
86	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
85	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
84	Design and synthesis of coumarin-based Zn(2+) probes for ratiometric fluorescence imaging. <i>Inorganic Chemistry</i> , 2009 , 48, 7630-8	5.1	96
83	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
82	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
81	2P-336 Time-resolved long-lived luminescence imaging employing luminescent lanthanide sensor probes(The 46th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2008 , 48, S126-S127		
80	A Gd3+-based magnetic resonance imaging contrast agent sensitive to beta-galactosidase activity utilizing a receptor-induced magnetization enhancement (RIME) phenomenon. <i>Chemistry - A European Journal</i> , 2008 , 14, 987-95	4.8	65
79	Selective photoinactivation of protein function through environment-sensitive switching of singlet oxygen generation by photosensitizer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 28-32	11.5	93
78	Iron hydroxide nanoparticles coated with poly(ethylene glycol)-poly(aspartic acid) block copolymer as novel magnetic resonance contrast agents for in vivo cancer imaging. <i>Colloids and Surfaces B: Biointerfaces</i> , 2007 , 56, 174-81	6	80
77	Time-resolved long-lived luminescence imaging method employing luminescent lanthanide probes with a new microscopy system. <i>Journal of the American Chemical Society</i> , 2007 , 129, 13502-9	16.4	224
76	Inhibition of presynaptic activity by zinc released from mossy fiber terminals during tetanic stimulation. <i>Journal of Neuroscience Research</i> , 2006 , 83, 167-76	4.4	68
75	Fluorescence-based zinc ion sensor for zinc ion release from pancreatic cells. <i>Analytical Chemistry</i> , 2006 , 78, 5799-804	7.8	34
74	Modulation of luminescence intensity of lanthanide complexes by photoinduced electron transfer and its application to a long-lived protease probe. <i>Journal of the American Chemical Society</i> , 2006 , 128, 6938-46	16.4	138
73	Design and synthesis of an enzyme activity-based labeling molecule with fluorescence spectral change. <i>Journal of the American Chemical Society</i> , 2006 , 128, 15946-7	16.4	93

72	Toward bifunctional antibody catalysis. <i>Bioorganic and Medicinal Chemistry</i> , 2006 , 14, 6189-96	3.4	16
71	Selective zinc sensor molecules with various affinities for Zn ²⁺ , revealing dynamics and regional distribution of synaptically released Zn ²⁺ in hippocampal slices. <i>Journal of the American Chemical Society</i> , 2005 , 127, 10197-204	16.4	327
70	Highly sensitive near-infrared fluorescent probes for nitric oxide and their application to isolated organs. <i>Journal of the American Chemical Society</i> , 2005 , 127, 3684-5	16.4	342
69	Evidence for pH dependent Zn ²⁺ -influx in K562 erythroleukemia cells: studies using ZnAF-2F fluorescence and ⁶⁵ Zn ²⁺ uptake. <i>Archives of Biochemistry and Biophysics</i> , 2005 , 442, 222-8	4.1	6
68	Design and synthesis of zinc-selective chelators for extracellular applications. <i>Journal of the American Chemical Society</i> , 2005 , 127, 818-9	16.4	81
67	Inhibition of autotaxin by lysophosphatidic acid and sphingosine 1-phosphate. <i>Journal of Biological Chemistry</i> , 2005 , 280, 21155-61	5.4	158
66	Rational principles for modulating fluorescence properties of fluorescein. <i>Journal of the American Chemical Society</i> , 2004 , 126, 14079-85	16.4	270
65	Rational design of novel photoinduced electron transfer type fluorescent probes for sodium cation. <i>Tetrahedron</i> , 2004 , 60, 11067-11073	2.4	23
64	Recent advances in the design of small molecule-based FRET sensors for cell biology. <i>TrAC - Trends in Analytical Chemistry</i> , 2004 , 23, 407-415	14.6	116
63	Zinc sensing for cellular application. <i>Current Opinion in Chemical Biology</i> , 2004 , 8, 182-91	9.7	294
62	Modification of intracellular Ca ²⁺ dynamics by laser inactivation of inositol 1,4,5-trisphosphate receptor using membrane-permeant probes. <i>Chemistry and Biology</i> , 2004 , 11, 1053-8		9
61	Nonspecific medium effects versus specific group positioning in the antibody and albumin catalysis of the base-promoted ring-opening reactions of benzisoxazoles. <i>Journal of the American Chemical Society</i> , 2004 , 126, 8197-205	16.4	60
60	Development of a zinc ion-selective luminescent lanthanide chemosensor for biological applications. <i>Journal of the American Chemical Society</i> , 2004 , 126, 12470-6	16.4	378
59	Highly sensitive fluorescence probes for nitric oxide based on boron dipyrromethene chromophore-rational design of potentially useful bioimaging fluorescence probe. <i>Journal of the American Chemical Society</i> , 2004 , 126, 3357-67	16.4	588
58	A novel fluorescent probe for zinc ion based on boron dipyrromethene (BODIPY) chromophore. <i>Chemical and Pharmaceutical Bulletin</i> , 2004 , 52, 700-3	1.9	36
57	Visualization of Cellular Events Using Designed Fluorescence Sensor Molecules. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2004 , 62, 1006-1013	0.2	0
56	A novel design method of ratiometric fluorescent probes based on fluorescence resonance energy transfer switching by spectral overlap integral. <i>Chemistry - A European Journal</i> , 2003 , 9, 1479-85	4.8	107
55	Spatiotemporal laser inactivation of inositol 1,4,5-trisphosphate receptors using synthetic small-molecule probes. <i>Chemistry and Biology</i> , 2003 , 10, 503-9		8

54	Development of selective, visible light-excitabile, fluorescent magnesium ion probes with a novel fluorescence switching mechanism. <i>Analyst, The</i> , 2003 , 128, 719-23	5	45
53	Hydrophobic modifications at 1-phosphate of inositol 1,4,5-trisphosphate analogues enhance receptor binding. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2002 , 12, 911-3	2.9	13
52	Design and synthesis of a novel magnetic resonance imaging contrast agent for selective sensing of zinc ion. <i>Chemistry and Biology</i> , 2002 , 9, 1027-32		95
51	Mossy fiber Zn ²⁺ spillover modulates heterosynaptic N-methyl-D-aspartate receptor activity in hippocampal CA3 circuits. <i>Journal of Cell Biology</i> , 2002 , 158, 215-20	7.3	214
50	Design and synthesis of an enzyme-cleavable sensor molecule for phosphodiesterase activity based on fluorescence resonance energy transfer. <i>Journal of the American Chemical Society</i> , 2002 , 124, 1653-7	16.4	155
49	Orthogonality of calcium concentration and ability of 4,5-diaminofluorescein to detect NO. <i>Journal of Biological Chemistry</i> , 2002 , 277, 47-9	5.4	71
48	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
47	A novel, cell-permeable, fluorescent probe for ratiometric imaging of zinc ion. <i>Journal of the American Chemical Society</i> , 2002 , 124, 10650-1	16.4	283
46	Improvement and biological applications of fluorescent probes for zinc, ZnAFs. <i>Journal of the American Chemical Society</i> , 2002 , 124, 6555-62	16.4	366
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