

Kazuya Kikuchi

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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	Detection and imaging of nitric oxide with novel fluorescent indicators: diaminofluoresceins. <i>Analytical Chemistry</i> , 1998 , 70, 2446-53	7.8	1147
196	BODIPY-based probes for the fluorescence imaging of biomolecules in living cells. <i>Chemical Society Reviews</i> , 2015 , 44, 4953-72	58.5	855
195	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
194	Fluorescent Indicators for Imaging Nitric Oxide Production. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 3209-3212	16.4	461
193	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
192	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
191	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
190	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
189	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
188	Rational design of fluorescein-based fluorescence probes. Mechanism-based design of a maximum fluorescence probe for singlet oxygen. <i>Journal of the American Chemical Society</i> , 2001 , 123, 2530-6	16.4	325
187	Direct evidence of nitric oxide production from bovine aortic endothelial cells using new fluorescence indicators: diaminofluoresceins. <i>FEBS Letters</i> , 1998 , 427, 263-6	3.8	320
186	Highly Zinc-Selective Fluorescent Sensor Molecules Suitable for Biological Applications. <i>Journal of the American Chemical Society</i> , 2000 , 122, 12399-12400	16.4	298
185	Zinc sensing for cellular application. <i>Current Opinion in Chemical Biology</i> , 2004 , 8, 182-91	9.7	294
184	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
183	Rational principles for modulating fluorescence properties of fluorescein. <i>Journal of the American Chemical Society</i> , 2004 , 126, 14079-85	16.4	270
182	Bioimaging of nitric oxide with fluorescent indicators based on the rhodamine chromophore. <i>Analytical Chemistry</i> , 2001 , 73, 1967-73	7.8	252
181	Development of a fluorescent indicator for nitric oxide based on the fluorescein chromophore. <i>Chemical and Pharmaceutical Bulletin</i> , 1998 , 46, 373-5	1.9	236

180	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
179	Design, synthesis and biological application of chemical probes for bio-imaging. <i>Chemical Society Reviews</i> , 2010 , 39, 2048-53	58.5	221
178	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
177	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
176	Direct evidence of NO production in rat hippocampus and cortex using a new fluorescent indicator: DAF-2 DA. <i>NeuroReport</i> , 1998 , 9, 3345-8	1.7	185
175	Detection of nitric oxide production from a perfused organ by a luminol-H ₂ O ₂ system. <i>Analytical Chemistry</i> , 1993 , 65, 1794-9	7.8	164
174	Inhibition of autotaxin by lysophosphatidic acid and sphingosine 1-phosphate. <i>Journal of Biological Chemistry</i> , 2005 , 280, 21155-61	5.4	158
173	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
172	Novel Fluorescent Probes for Singlet Oxygen. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 2899-2901	16.4	142
171	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
170	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
169	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
168	Dynamic visualization of RANKL and Th17-mediated osteoclast function. <i>Journal of Clinical Investigation</i> , 2013 , 123, 866-73	15.9	125
167	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
166	Role of nitric oxide-cGMP pathway in adrenomedullin-induced vasodilation in the rat. <i>Hypertension</i> , 1999 , 33, 689-93	8.5	122
165	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
164	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
163	Novel Iron Porphyrin-Alkanethiolate Complex with Intramolecular N-H...S Hydrogen Bond: Synthesis, Spectroscopy, and Reactivity. <i>Journal of the American Chemical Society</i> , 1999 , 121, 11571-11572	16.4	104

162	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
161	Design and synthesis of coumarin-based Zn(2+) probes for ratiometric fluorescence imaging. <i>Inorganic Chemistry</i> , 2009 , 48, 7630-8	5.1	96
160	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
159	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
158	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
157	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
156	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
155	In vivo fluorescence imaging of bone-resorbing osteoclasts. <i>Journal of the American Chemical Society</i> , 2011 , 133, 17772-6	16.4	90
154	Effects of vasodilatory beta-adrenoceptor antagonists on endothelium-derived nitric oxide release in rat kidney. <i>Hypertension</i> , 1999 , 33, 467-71	8.5	90
153	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
152	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
151	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
150	Mesoporous silica nanoparticles for F magnetic resonance imaging, fluorescence imaging, and drug delivery. <i>Chemical Science</i> , 2015 , 6, 1986-1990	9.4	84
149	Two distinct amyloid beta-protein (Aβ) 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
148	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
147	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
146	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
145	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

144	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
143	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
142	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
141	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
140	Intramolecular fluorescence resonance energy transfer system with coumarin donor included in beta-cyclodextrin. <i>Analytical Chemistry</i> , 2001 , 73, 939-42	7.8	66
139	Direct measurements of endothelium-derived nitric oxide release by stimulation of endothelin receptors in rat kidney and its alteration in salt-induced hypertension. <i>Circulation</i> , 1995 , 91, 1229-35	16.7	66
138	Membrane protein CNNM4-dependent Mg ²⁺ efflux suppresses tumor progression. <i>Journal of Clinical Investigation</i> , 2014 , 124, 5398-410	15.9	66
137	A Gd ³⁺ -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
136	Characterization of Proton-Transfer Catalysis by Serum Albumins. <i>Journal of the American Chemical Society</i> , 2000 , 122, 1022-1029	16.4	65
135	Effects of hypertension, diabetes mellitus, and hypercholesterolemia on endothelin type B receptor-mediated nitric oxide release from rat kidney. <i>Circulation</i> , 1999 , 99, 1242-8	16.7	63
134	Real-time intravital imaging of pH variation associated with osteoclast activity. <i>Nature Chemical Biology</i> , 2016 , 12, 579-85	11.7	60
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	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
131	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
130	Effects of tetrahydrobiopterin on endothelial dysfunction in rats with ischemic acute renal failure. <i>Journal of the American Society of Nephrology: JASN</i> , 2000 , 11, 301-309	12.7	60
129	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
128	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
127	Albumin-Catalyzed Proton Transfer. <i>Journal of the American Chemical Society</i> , 1996 , 118, 8184-8185	16.4	56

126	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
125	Remarkable axial thiolate ligand effect on the oxidation of hydrocarbons by active intermediate of iron porphyrin and cytochrome P450. <i>Journal of Inorganic Biochemistry</i> , 2000 , 82, 123-5	4.2	53
124	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
123	Multicolor protein labeling in living cells using mutant β -lactamase-tag technology. <i>Bioconjugate Chemistry</i> , 2010 , 21, 2320-6	6.3	51
122	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
121	Perfluorocarbon-Based ¹⁹ F MRI Nanoprobes for In Vivo Multicolor Imaging. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 16742-16747	16.4	47
120	Photocontrolled compound release system using caged antimicrobial peptide. <i>Journal of the American Chemical Society</i> , 2010 , 132, 9524-5	16.4	46
119	¹⁹ F MRI detection of β -galactosidase activity for imaging of gene expression. <i>Chemical Science</i> , 2011 , 2, 1151	9.4	45
118	Development of selective, visible light-excitable, fluorescent magnesium ion probes with a novel fluorescence switching mechanism. <i>Analyst, The</i> , 2003 , 128, 719-23	5	45
117	First Synthetic NO β -hemethiolate Complex Relevant to Nitric Oxide Synthase and Cytochrome P450 _{nor} . <i>Journal of the American Chemical Society</i> , 2000 , 122, 12059-12060	16.4	44
116	Fluorescent indicators for nitric oxide based on rhodamine chromophore. <i>Tetrahedron Letters</i> , 2000 , 41, 69-72	2	43
115	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
114	Photostable and photoswitching fluorescent dyes for super-resolution imaging. <i>Journal of Biological Inorganic Chemistry</i> , 2017 , 22, 639-652	3.7	38
113	Fluorogenic probes reveal a role of GLUT4 N-glycosylation in intracellular trafficking. <i>Nature Chemical Biology</i> , 2016 , 12, 853-9	11.7	38
112	Visualization of oxygen-concentration-dependent production of nitric oxide in rat hippocampal slices during aglycemia. <i>Journal of Neurochemistry</i> , 2001 , 76, 1404-10	6	38
111	Development of a fluorescent indicator for the bioimaging of nitric oxide. <i>Biological and Pharmaceutical Bulletin</i> , 1997 , 20, 1229-32	2.3	36
110	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
109	Fluorescence-based zinc ion sensor for zinc ion release from pancreatic cells. <i>Analytical Chemistry</i> , 2006 , 78, 5799-804	7.8	34

108	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
107	Improved nitric oxide detection using 2,3-diaminonaphthalene and its application to the evaluation of novel nitric oxide synthase inhibitors. <i>Biological and Pharmaceutical Bulletin</i> , 1998 , 21, 1247-50	2.3	32
106	Synthesis and superoxide dismutase activity of novel iron complexes. <i>Journal of Organometallic Chemistry</i> , 2000 , 611, 586-592	2.3	30
105	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
104	Turn-on fluorescence switch involving aggregation and elimination processes for β -lactamase-tag. <i>Chemical Communications</i> , 2010 , 46, 7403-5	5.8	28
103	Nitric oxide release from kidneys of hypertensive rats treated with imidapril. <i>Hypertension</i> , 1996 , 27, 672-8	8.5	28
102	Ratiometric MRI sensors based on core-shell nanoparticles for quantitative pH imaging. <i>Advanced Materials</i> , 2014 , 26, 2989-92	24	27
101	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
100	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
99	Anion sensor-based ratiometric peptide probe for protein kinase activity. <i>Organic Letters</i> , 2009 , 11, 2732-5	26	26
98	Real-time measurement of nitric oxide production in rat brain by the combination of luminol-H ₂ O ₂ chemiluminescence and microdialysis. <i>Neuroscience Letters</i> , 1997 , 233, 157-9	3.3	26
97	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
96	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
95	Novel detection method of nitric oxide using horseradish peroxidase. <i>Biological and Pharmaceutical Bulletin</i> , 1996 , 19, 649-51	2.3	24
94	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
93	Rational design of novel photoinduced electron transfer type fluorescent probes for sodium cation. <i>Tetrahedron</i> , 2004 , 60, 11067-11073	2.4	23
92	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
91	Superoxide dismutase activity of iron(II)TPEN complex and its derivatives. <i>Chemical and Pharmaceutical Bulletin</i> , 2000 , 48, 1514-8	1.9	22

90	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
89	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
88	(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
87	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
86	Small molecule-based laser inactivation of inositol 1,4,5-trisphosphate receptor. <i>Chemistry and Biology</i> , 2001 , 8, 9-15		20
85	Receptor subtype for vasopressin-induced release of nitric oxide from rat kidney. <i>Hypertension</i> , 1997 , 29, 58-64	8.5	20
84	Near-infrared fluorescent probes: a next-generation tool for protein-labeling applications. <i>Chemical Science</i> , 2020 , 12, 3437-3447	9.4	20
83	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
82	Selective Deoxygenation of Heteroaromatic N-Oxides with Olefins Catalyzed by Ruthenium Porphyrin.. <i>Chemical and Pharmaceutical Bulletin</i> , 1998 , 46, 1656-1657	1.9	19
81	Synthesis and evaluation of 1-position-modified inositol 1,4,5-trisphosphate analogs. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1999 , 9, 1697-702	2.9	19
80	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
79	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
78	Selective Labeling of Proteins on Living Cell Membranes Using Fluorescent Nanodiamond Probes. <i>Nanomaterials</i> , 2016 , 6,	5.4	18
77	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
76	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
75	Multifunctional Core/Shell Silica Nanoparticles for Highly Sensitive 19F Magnetic Resonance Imaging. <i>Angewandte Chemie</i> , 2014 , 126, 1026-1029	3.6	17
74	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
73	Development of cell-impermeable coelenterazine derivatives. <i>Chemical Science</i> , 2013 , 4, 4395	9.4	16

72	Toward bifunctional antibody catalysis. <i>Bioorganic and Medicinal Chemistry</i> , 2006 , 14, 6189-96	3.4	16
71	Enzyme-triggered compound release using functionalized antimicrobial peptide derivatives. <i>Chemical Science</i> , 2017 , 8, 3047-3053	9.4	13
70	Application of a stimuli-responsive polymer to the development of novel MRI probes. <i>ChemBioChem</i> , 2010 , 11, 785-7	3.8	13
69	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
68	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
67	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
66	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
65	Dipeptides containing L-arginine analogs: new isozyme-selective inhibitors of nitric oxide synthase. <i>Biological and Pharmaceutical Bulletin</i> , 1999 , 22, 936-40	2.3	12
64	Single-cell dynamics of pannexin-1-facilitated programmed ATP loss during apoptosis. <i>ELife</i> , 2020 , 9,	8.9	12
63	Development of ratiometric fluorescent probes for phosphatases by using a pK(a) switching mechanism. <i>ChemBioChem</i> , 2009 , 10, 1465-8	3.8	11
62	Chemical Tools with Fluorescence Switches for Verifying Epigenetic Modifications. <i>Accounts of Chemical Research</i> , 2019 , 52, 2849-2857	24.3	10
61	Chemical tools for probing histone deacetylase (HDAC) activity. <i>Analytical Sciences</i> , 2015 , 31, 287-92	1.7	10
60	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
59	Switching modulation for protein labeling with activatable fluorescent probes. <i>ChemBioChem</i> , 2011 , 12, 1299-308	3.8	10
58	Selective inhibition of human inducible nitric oxide synthase by S-alkyl-L-isothiocitrulline-containing dipeptides. <i>British Journal of Pharmacology</i> , 2001 , 132, 1876-82	8.6	10
57	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
56	Sequential ordering among multicolor fluorophores for protein labeling facility via aggregation-elimination based lactam probes. <i>Molecular BioSystems</i> , 2011 , 7, 1766-72		9
55	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

54	Endothelium-derived relaxing factors in the kidney of spontaneously hypertensive rats. <i>Life Sciences</i> , 1995 , 56, PL401-8	6.8	9
53	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
52	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
51	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
50	Catalysis of 3-Carboxy-1,2-benzisoxazole Decarboxylation by Hydrophobic Antibody Binding Pockets. <i>Helvetica Chimica Acta</i> , 2000 , 83, 2183-2191	2	8
49	Fabrication of Clickable Polyfluorene Nanowires with High Aspect Ratio as Biological Sensing Platforms. <i>ACS Sensors</i> , 2016 , 1, 766-774	9.2	8
48	^{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
47	A new thioether-ligated iron porphyrin as a model of a protonated form of P450 active site. <i>Journal of Inorganic Biochemistry</i> , 2000 , 82, 127-32	4.2	7
46	Development of a time-resolved fluorometric detection system using diffusion-enhanced energy transfer. <i>Analytical Chemistry</i> , 2000 , 72, 4904-7	7.8	7
45	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
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