

Kazuya Kikuchi

List of Publications by Year in descending order

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195
papers

16,766
citations

13068

68
h-index

15218

126
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211
all docs

211
docs citations

211
times ranked

16490
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection and Imaging of Nitric Oxide with Novel Fluorescent Indicators: Δ Diaminofluoresceins. <i>Analytical Chemistry</i> , 1998, 70, 2446-2453.	3.2	1,262
2	BODIPY-based probes for the fluorescence imaging of biomolecules in living cells. <i>Chemical Society Reviews</i> , 2015, 44, 4953-4972.	18.7	1,091
3	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, 3357-3367.	6.6	632
4	Fluorescent Indicators for Imaging Nitric Oxide Production. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 3209-3212.	7.2	514
5	Improvement and Biological Applications of Fluorescent Probes for Zinc, ZnAFs. <i>Journal of the American Chemical Society</i> , 2002, 124, 6555-6562.	6.6	397
6	Development of a Zinc Ion-Selective Luminescent Lanthanide Chemosensor for Biological Applications. <i>Journal of the American Chemical Society</i> , 2004, 126, 12470-12476.	6.6	395
7	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, 3684-3685.	6.6	380
8	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, 2530-2536.	6.6	369
9	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
10	Direct evidence of nitric oxide production from bovine aortic endothelial cells using new fluorescence indicators: diaminofluoresceins. <i>FEBS Letters</i> , 1998, 427, 263-266.	1.3	354
11	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, 10197-10204.	6.6	344
12	Highly Zinc-Selective Fluorescent Sensor Molecules Suitable for Biological Applications. <i>Journal of the American Chemical Society</i> , 2000, 122, 12399-12400.	6.6	331
13	Rational Principles for Modulating Fluorescence Properties of Fluorescein. <i>Journal of the American Chemical Society</i> , 2004, 126, 14079-14085.	6.6	314
14	Zinc sensing for cellular application. <i>Current Opinion in Chemical Biology</i> , 2004, 8, 182-191.	2.8	309
15	A Novel, Cell-Permeable, Fluorescent Probe for Ratiometric Imaging of Zinc Ion. <i>Journal of the American Chemical Society</i> , 2002, 124, 10650-10651.	6.6	298
16	Bioimaging of Nitric Oxide with Fluorescent Indicators Based on the Rhodamine Chromophore. <i>Analytical Chemistry</i> , 2001, 73, 1967-1973.	3.2	283
17	Development of a Fluorescent Indicator for Nitric Oxide Based on the Fluorescein Chromophore. <i>Chemical and Pharmaceutical Bulletin</i> , 1998, 46, 373-375.	0.6	262
18	Design, synthesis and biological application of chemical probes for bio-imaging. <i>Chemical Society Reviews</i> , 2010, 39, 2048.	18.7	246

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19	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, 13502-13509.	6.6	243
20	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
21	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, 215-220.	2.3	226
22	Detection of nitric oxide production from a perfused organ by a luminol-hydrogen peroxide system. <i>Analytical Chemistry</i> , 1993, 65, 1794-1799.	3.2	195
23	Direct evidence of NO production in rat hippocampus and cortex using a new fluorescent indicator. <i>NeuroReport</i> , 1998, 9, 3345-3348.	0.6	194
24	Inhibition of Autotaxin by Lysophosphatidic Acid and Sphingosine 1-Phosphate. <i>Journal of Biological Chemistry</i> , 2005, 280, 21155-21161.	1.6	178
25	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, 1653-1657.	6.6	161
26	Novel Fluorescent Probes for Singlet Oxygen. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 2899-2901.	7.2	159
27	Covalent Protein Labeling Based on Noncatalytic Î ² -Lactamase and a Designed FRET Substrate. <i>Journal of the American Chemical Society</i> , 2009, 131, 5016-5017.	6.6	159
28	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, 10859-10864.	3.3	152
29	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, 6938-6946.	6.6	151
30	Dynamic visualization of RANKL and Th17-mediated osteoclast function. <i>Journal of Clinical Investigation</i> , 2013, 123, 866-73.	3.9	141
31	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
32	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.	5.8	131
33	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
34	Role of Nitric Oxide- ϵ cGMP Pathway in Adrenomedullin-Induced Vasodilation in the Rat. <i>Hypertension</i> , 1999, 33, 689-693.	1.3	128
35	Direct cell-cell contact between mature osteoblasts and osteoclasts dynamically controls their functions in vivo. <i>Nature Communications</i> , 2018, 9, 300.	5.8	128
36	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, 1479-1485.	1.7	123

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37	Novel Iron Porphyrin-alkane-thiolate Complex with Intramolecular NH ₂ -S Hydrogen Bond: Synthesis, Spectroscopy, and Reactivity. <i>Journal of the American Chemical Society</i> , 1999, 121, 11571-11572.	6.6	118
38	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
39	In Vivo Fluorescence Imaging of Bone-Resorbing Osteoclasts. <i>Journal of the American Chemical Society</i> , 2011, 133, 17772-17776.	6.6	108
40	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
41	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
42	Design and Synthesis of a Novel Magnetic Resonance Imaging Contrast Agent for Selective Sensing of Zinc Ion. <i>Chemistry and Biology</i> , 2002, 9, 1027-1032.	6.2	105
43	Design and Synthesis of an Enzyme Activity-Based Labeling Molecule with Fluorescence Spectral Change. <i>Journal of the American Chemical Society</i> , 2006, 128, 15946-15947.	6.6	104
44	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
45	Design and Synthesis of Coumarin-Based Zn ²⁺ Probes for Ratiometric Fluorescence Imaging. <i>Inorganic Chemistry</i> , 2009, 48, 7630-7638.	1.9	103
46	Two Distinct Amyloid β -Protein (A β) 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, 11555-11562.	1.6	102
47	Development of Fluorogenic Probes for Quick No-Wash Live-Cell Imaging of Intracellular Proteins. <i>Journal of the American Chemical Society</i> , 2013, 135, 12360-12365.	6.6	102
48	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.	3.3	101
49	Effects of Vasodilatory β -Adrenoceptor Antagonists on Endothelium-Derived Nitric Oxide Release in Rat Kidney. <i>Hypertension</i> , 1999, 33, 467-471.	1.3	100
50	SCOTfluors: Small, Conjugatable, Orthogonal, and Tunable Fluorophores for In Vivo Imaging of Cell Metabolism. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6911-6915.	7.2	100
51	Membrane protein CNNM4-dependent Mg ²⁺ efflux suppresses tumor progression. <i>Journal of Clinical Investigation</i> , 2014, 124, 5398-5410.	3.9	93
52	Design and Synthesis of Zinc-Selective Chelators for Extracellular Applications. <i>Journal of the American Chemical Society</i> , 2005, 127, 818-819.	6.6	89
53	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, 174-181.	2.5	88
54	Orthogonality of Calcium Concentration and Ability of 4,5-Diaminofluorescein to Detect NO. <i>Journal of Biological Chemistry</i> , 2002, 277, 47-49.	1.6	83

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55	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.	6.6	83
56	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
57	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
58	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
59	Real-time intravital imaging of pH variation associated with osteoclast activity. <i>Nature Chemical Biology</i> , 2016, 12, 579-585.	3.9	80
60	Characterization of Proton-Transfer Catalysis by Serum Albumins. <i>Journal of the American Chemical Society</i> , 2000, 122, 1022-1029.	6.6	79
61	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, 1229-1235.	1.6	78
62	Effects of Hypertension, Diabetes Mellitus, and Hypercholesterolemia on Endothelin Type B Receptor-Mediated Nitric Oxide Release From Rat Kidney. <i>Circulation</i> , 1999, 99, 1242-1248.	1.6	73
63	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
64	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
65	Perfluorocarbon-Based ¹⁹ F MRI Nanoprobes for In Vivo Multicolor Imaging. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16742-16747.	7.2	73
66	Intramolecular Fluorescence Resonance Energy Transfer System with Coumarin Donor Included in β -Cyclodextrin. <i>Analytical Chemistry</i> , 2001, 73, 939-942.	3.2	72
67	Inhibition of presynaptic activity by zinc released from mossy fiber terminals during tetanic stimulation. <i>Journal of Neuroscience Research</i> , 2006, 83, 167-176.	1.3	72
68	Near-infrared fluorescent probes: a next-generation tool for protein-labeling applications. <i>Chemical Science</i> , 2021, 12, 3437-3447.	3.7	71
69	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.	3.0	69
70	A Gd ³⁺ -Based Magnetic Resonance Imaging Contrast Agent Sensitive to β -Galactosidase Activity Utilizing a Receptor-Induced Magnetization Enhancement (RIME) Phenomenon. <i>Chemistry - A European Journal</i> , 2008, 14, 987-995.	1.7	67
71	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, 8197-8205.	6.6	66
72	Albumin-Catalyzed Proton Transfer. <i>Journal of the American Chemical Society</i> , 1996, 118, 8184-8185.	6.6	65

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73	A fluorescent probe for detection of histone deacetylase activity based on aggregation-induced emission. <i>Chemical Communications</i> , 2012, 48, 11534.	2.2	65
74	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
75	Multicolor Protein Labeling in Living Cells Using Mutant β -Lactamase-Tag Technology. <i>Bioconjugate Chemistry</i> , 2010, 21, 2320-2326.	1.8	60
76	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
77	Photostable and photoswitching fluorescent dyes for super-resolution imaging. <i>Journal of Biological Inorganic Chemistry</i> , 2017, 22, 639-652.	1.1	58
78	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, 123-125.	1.5	57
79	^{19}F MRI detection of β -galactosidase activity for imaging of gene expression. <i>Chemical Science</i> , 2011, 2, 1151.	3.7	54
80	Protein labeling with fluorogenic probes for no-wash live-cell imaging of proteins. <i>Current Opinion in Chemical Biology</i> , 2013, 17, 644-650.	2.8	54
81	Photocontrolled Compound Release System Using Caged Antimicrobial Peptide. <i>Journal of the American Chemical Society</i> , 2010, 132, 9524-9525.	6.6	53
82	First Synthetic NO-Heme-Thiolate Complex Relevant to Nitric Oxide Synthase and Cytochrome P450nor. <i>Journal of the American Chemical Society</i> , 2000, 122, 12059-12060.	6.6	49
83	Fluorescent indicators for nitric oxide based on rhodamine chromophore. <i>Tetrahedron Letters</i> , 2000, 41, 69-72.	0.7	48
84	Development of selective, visible light-excitable, fluorescent magnesium ion probes with a novel fluorescence switching mechanism. <i>Analyst</i> , 2003, 128, 719.	1.7	48
85	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
86	Fluorogenic probes reveal a role of GLUT4 N-glycosylation in intracellular trafficking. <i>Nature Chemical Biology</i> , 2016, 12, 853-859.	3.9	46
87	Development of a Fluorescent Indicator for the Bioimaging of Nitric Oxide.. <i>Biological and Pharmaceutical Bulletin</i> , 1997, 20, 1229-1232.	0.6	44
88	Visualization of oxygen-concentration-dependent production of nitric oxide in rat hippocampal slices during aglycemia. <i>Journal of Neurochemistry</i> , 2001, 76, 1404-1410.	2.1	44
89	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
90	Fluorescence-Based Zinc Ion Sensor for Zinc Ion Release from Pancreatic Cells. <i>Analytical Chemistry</i> , 2006, 78, 5799-5804.	3.2	42

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91	<i>In Vivo</i> Multicolor Imaging with Fluorescent Probes Revealed the Dynamics and Function of Osteoclast Proton Pumps. <i>ACS Central Science</i> , 2019, 5, 1059-1066.	5.3	41
92	A Novel Fluorescent Probe for Zinc Ion Based on Boron Dipyrrromethene (BODIPY) Chromophore. <i>Chemical and Pharmaceutical Bulletin</i> , 2004, 52, 700-703.	0.6	40
93	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, 1247-1250.	0.6	36
94	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
95	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
96	Single-cell dynamics of pannexin-1-facilitated programmed ATP loss during apoptosis. <i>ELife</i> , 2020, 9, .	2.8	34
97	Synthesis and superoxide dismutase activity of novel iron complexes. <i>Journal of Organometallic Chemistry</i> , 2000, 611, 586-592.	0.8	33
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, 157-159.	1.0	32
99	Nitric Oxide Release From Kidneys of Hypertensive Rats Treated With Imidapril. <i>Hypertension</i> , 1996, 27, 672-678.	1.3	32
100	Turn-on fluorescence switch involving aggregation and elimination processes for β -lactamase-tag. <i>Chemical Communications</i> , 2010, 46, 7403.	2.2	31
101	Ratiometric MRI Sensors Based on Core-Shell Nanoparticles for Quantitative pH Imaging. <i>Advanced Materials</i> , 2014, 26, 2989-2992.	11.1	31
102	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
103	Rational design of novel photoinduced electron transfer type fluorescent probes for sodium cation. <i>Tetrahedron</i> , 2004, 60, 11067-11073.	1.0	29
104	Anion Sensor-Based Ratiometric Peptide Probe for Protein Kinase Activity. <i>Organic Letters</i> , 2009, 11, 2732-2735.	2.4	29
105	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
106	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, 14368-14371.	7.2	29
107	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
108	SCOTfluors: Small, Conjugatable, Orthogonal, and Tunable Fluorophores for <i>In Vivo</i> Imaging of Cell Metabolism. <i>Angewandte Chemie</i> , 2019, 131, 6985-6989.	1.6	28

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109	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
110	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, 7925-7930.	3.2	26
111	Novel Detection Method of Nitric Oxide Using Horseradish Peroxidase.. <i>Biological and Pharmaceutical Bulletin</i> , 1996, 19, 649-651.	0.6	25
112	Salicylic Acid Derivatives as Antennae for Ratiometric Luminescent Probes Based on Lanthanide Complexes. <i>Chemistry - A European Journal</i> , 2012, 18, 7377-7381.	1.7	24
113	Selective Labeling of Proteins on Living Cell Membranes Using Fluorescent Nanodiamond Probes. <i>Nanomaterials</i> , 2016, 6, 56.	1.9	24
114	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
115	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
116	Superoxide Dismutase Activity of Iron(II)TPEN Complex and Its Derivatives.. <i>Chemical and Pharmaceutical Bulletin</i> , 2000, 48, 1514-1518.	0.6	23
117	Small molecule-based laser inactivation of inositol 1,4,5-trisphosphate receptor. <i>Chemistry and Biology</i> , 2001, 8, 9-15.	6.2	23
118	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
119	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
120	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.	7.2	23
121	Selective Deoxygenation of Heteroaromatic N-Oxides with Olefins Catalyzed by Ruthenium Porphyrin.. <i>Chemical and Pharmaceutical Bulletin</i> , 1998, 46, 1656-1657.	0.6	21
122	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, 4695-4702.	1.7	21
123	Synthesis and evaluation of 1-position-modified inositol 1,4,5-trisphosphate analogs. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1999, 9, 1697-1702.	1.0	20
124	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.	3.7	20
125	Chemical Tools with Fluorescence Switches for Verifying Epigenetic Modifications. <i>Accounts of Chemical Research</i> , 2019, 52, 2849-2857.	7.6	20
126	Receptor Subtype for Vasopressin-Induced Release of Nitric Oxide From Rat Kidney. <i>Hypertension</i> , 1997, 29, 58-64.	1.3	20

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127	Toward bifunctional antibody catalysis. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 6189-6196.	1.4	19
128	Development of cell-impermeable coelenterazine derivatives. <i>Chemical Science</i> , 2013, 4, 4395.	3.7	19
129	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, 1053-1058.	6.2	16
130	Enzyme-triggered compound release using functionalized antimicrobial peptide derivatives. <i>Chemical Science</i> , 2017, 8, 3047-3053.	3.7	16
131	<i>In vivo</i> visualisation of different modes of action of biological DMARDs inhibiting osteoclastic bone resorption. <i>Annals of the Rheumatic Diseases</i> , 2018, 77, annrheumdis-2017-212880.	0.5	16
132	Sensing Peroxynitrite in Different Organelles of Murine RAW264.7 Macrophages With Coumarin-Based Fluorescent Probes. <i>Frontiers in Chemistry</i> , 2020, 8, 39.	1.8	15
133	Hydrophobic modifications at 1-phosphate of inositol 1,4,5-Trisphosphate analogues enhance receptor binding. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2002, 12, 911-913.	1.0	14
134	Design, Synthesis, and Biological Application of Fluorescent Sensor Molecules for Cellular Imaging. , 2009, 119, 63-78.		14
135	Application of a Stimuli-Responsive Polymer to the Development of Novel MRI Probes. <i>ChemBioChem</i> , 2010, 11, 785-787.	1.3	14
136	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.	3.7	14
137	Dipeptides Containing L-Arginine Analogs: New Isozyme-Selective Inhibitors of Nitric Oxide Synthase.. <i>Biological and Pharmaceutical Bulletin</i> , 1999, 22, 936-940.	0.6	13
138	Chemical Tools for Probing Histone Deacetylase (HDAC) Activity. <i>Analytical Sciences</i> , 2015, 31, 287-292.	0.8	13
139	<p>Oxygen Functional Groups on MWCNT Surface as Critical Factor Boosting T2 Relaxation Rate of Water Protons: Towards Improved CNT-Based Contrast Agents</p>. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 7433-7450.	3.3	13
140	New method of detecting nitric oxide production.. <i>Chemical and Pharmaceutical Bulletin</i> , 1992, 40, 2233-2235.	0.6	12
141	Development of Ratiometric Fluorescent Probes for Phosphatases by Using a <i>K_a</i> Switching Mechanism. <i>ChemBioChem</i> , 2009, 10, 1465-1468.	1.3	12
142	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
143	Endothelium-derived relaxing factors in the kidney of spontaneously hypertensive rats. <i>Life Sciences</i> , 1995, 56, PL401-PL408.	2.0	11
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