

Yasuteru Urano

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.

159 papers	10,970 citations	44 h-index	103 g-index
174 ext. papers	12,584 ext. citations	8.7 avg, IF	6.22 L-index

#	Paper	IF	Citations
159	Molecular probes for fluorescence image-guided cancer surgery.. <i>Current Opinion in Chemical Biology</i> , 2022 , 67, 102112	9.7	1
158	Leading-edge elongation by follower cell interruption in advancing epithelial cell sheets.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2119903119 ^{11.5}	11.5	0
157	Discovery of an F-actin-binding small molecule serving as a fluorescent probe and a scaffold for functional probes. <i>Science Advances</i> , 2021 , 7, eabg8585	14.3	1
156	A Novel Topical Fluorescent Probe for Detection of Glioblastoma. <i>Clinical Cancer Research</i> , 2021 , 27, 3936-3947	12.9	4
155	EGalactosidase is a target enzyme for detecting peritoneal metastasis of gastric cancer. <i>Scientific Reports</i> , 2021 , 11, 10664	4.9	3
154	Establishment of live-cell-based coupled assay system for identification of compounds to modulate metabolic activities of cells. <i>Cell Reports</i> , 2021 , 36, 109311	10.6	0
153	EGlutamyltranspeptidase (GGT)-Activatable Fluorescence Probe for Durable Tumor Imaging. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 2125-2129	16.4	23
152	EGlutamyltranspeptidase (GGT)-Activatable Fluorescence Probe for Durable Tumor Imaging. <i>Angewandte Chemie</i> , 2021 , 133, 2153-2157	3.6	6
151	Photoactivatable fluorophores for durable labelling of individual cells. <i>Chemical Communications</i> , 2021 , 57, 5802-5805	5.8	4
150	Amino BODIPY-Based Blue Fluorescent Probes for Aldehyde Dehydrogenase 1-Expressing Cells. <i>Bioconjugate Chemistry</i> , 2021 , 32, 234-238	6.3	2
149	PMEPA1 and NEDD4 control the proton production of osteoclasts by regulating vesicular trafficking. <i>FASEB Journal</i> , 2021 , 35, e21281	0.9	1
148	Rapid and Sensitive Detection of Cancer Cells with Activatable Fluorescent Probes for Enzyme Activity. <i>Methods in Molecular Biology</i> , 2021 , 2274, 193-206	1.4	1
147	Nongenetic control of receptor signaling dynamics using a DNA-based optochemical tool. <i>Chemical Communications</i> , 2021 , 57, 5969-5972	5.8	3
146	Realization of rapid cancer imaging by non-DDS fluorescent probe technology and its future vision of cooperation with DDS. <i>Drug Delivery System</i> , 2021 , 36, 51-66	0	
145	Fluorescence Probes for Imaging Basic Carboxypeptidase Activity in Living Cells with High Intracellular Retention. <i>Analytical Chemistry</i> , 2021 , 93, 3470-3476	7.8	1
144	Neural and behavioral control in by a yellow-light-activatable caged compound. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	1
143	Fluorescence Imaging Using Enzyme-Activatable Probes for Real-Time Identification of Pancreatic Cancer. <i>Frontiers in Oncology</i> , 2021 , 11, 714527	5.3	0

142	Rapid fluorescence imaging of human hepatocellular carcinoma using the Galactosidase-activatable fluorescence probe SPIDER-Gal. <i>Scientific Reports</i> , 2021 , 11, 17946	4.9	0
141	Matrix metalloprotease-14 is a target enzyme for detecting peritoneal metastasis in gastric cancer. <i>Photodiagnosis and Photodynamic Therapy</i> , 2021 , 35, 102420	3.5	1
140	Development of a small-molecule-based activatable photoacoustic probe. <i>Methods in Enzymology</i> , 2021 , 657, 1-19	1.7	0
139	Chemical toolbox for live biochemistry to understand enzymatic functions in living systems. <i>Journal of Biochemistry</i> , 2020 , 167, 139-149	3.1	0
138	γ -glutamyl hydroxymethyl rhodamine green fluorescence as a prognostic indicator for lung cancer. <i>General Thoracic and Cardiovascular Surgery</i> , 2020 , 68, 1418-1424	1.6	0
137	Activatable fluorescent probes for hydrolase enzymes based on coumarin-hemicyanine hybrid fluorophores with large Stokes shifts. <i>Chemical Communications</i> , 2020 , 56, 5617-5620	5.8	9
136	Molecular design strategy of fluorogenic probes based on quantum chemical prediction of intramolecular spirocyclization. <i>Communications Chemistry</i> , 2020 , 3,	6.3	8
135	A Fluorescent Probe for Rapid, High-Contrast Visualization of Folate-Receptor-Expressing Tumors In Vivo. <i>Angewandte Chemie</i> , 2020 , 132, 6071-6076	3.6	0
134	A Fluorescent Probe for Rapid, High-Contrast Visualization of Folate-Receptor-Expressing Tumors In Vivo. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 6015-6020	16.4	19
133	Detection of early adenocarcinoma of the esophagogastric junction by spraying an enzyme-activatable fluorescent probe targeting Dipeptidyl peptidase-IV. <i>BMC Cancer</i> , 2020 , 20, 64	4.8	9
132	Spontaneously Blinking Fluorophores Based on Nucleophilic Addition/Dissociation of Intracellular Glutathione for Live-Cell Super-resolution Imaging. <i>Journal of the American Chemical Society</i> , 2020 , 142, 9625-9633	16.4	24
131	Multiplexed single-molecule enzyme activity analysis for counting disease-related proteins in biological samples. <i>Science Advances</i> , 2020 , 6, eaay0888	14.3	14
130	A novel sialidase-activatable fluorescence probe with improved stability for the sensitive detection of sialidase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020 , 30, 126860	2.9	9
129	Metabolic-Pathway-Oriented Screening Targeting -Adenosyl-L-methionine Reveals the Epigenetic Remodeling Activities of Naturally Occurring Catechols. <i>Journal of the American Chemical Society</i> , 2020 , 142, 21-26	16.4	1
128	Multicolor Activatable Raman Probes for Simultaneous Detection of Plural Enzyme Activities. <i>Journal of the American Chemical Society</i> , 2020 , 142, 20701-20707	16.4	25
127	Calcioprotein particle-induced cytotoxicity via lysosomal dysfunction and altered cholesterol distribution in renal epithelial HK-2 cells. <i>Scientific Reports</i> , 2020 , 10, 20125	4.9	5
126	A novel method for assessing the renal biopsy specimens using an activatable fluorescent probe. <i>Scientific Reports</i> , 2020 , 10, 12094	4.9	3
125	Rapid and Accurate Visualization of Breast Tumors with a Fluorescent Probe Targeting β -Mannosidase 2C1. <i>ACS Central Science</i> , 2020 , 6, 2217-2227	16.8	7

124	Design of spontaneously blinking fluorophores for live-cell super-resolution imaging based on quantum-chemical calculations. <i>Chemical Communications</i> , 2020 , 56, 13173-13176	5.8	8
123	Companion Diagnosis for Retinal Neuroprotective Treatment by Real-Time Imaging of Calpain Activation Using a Novel Fluorescent Probe. <i>Bioconjugate Chemistry</i> , 2020 , 31, 2241-2251	6.3	2
122	Antibody Clicking as a Strategy to Modify Antibody Functionalities on the Surface of Targeted Cells. <i>Journal of the American Chemical Society</i> , 2020 , 142, 15644-15648	16.4	6
121	On-Site Monitoring of Postoperative Bile Leakage Using Bilirubin-Inducible Fluorescent Protein. <i>World Journal of Surgery</i> , 2020 , 44, 4245-4253	3.3	0
120	Recent Progress in Small Spirocyclic, Xanthene-Based Fluorescent Probes. <i>Molecules</i> , 2020 , 25,	4.8	6
119	Highly sensitive fluorescence imaging of cancer with avidin-protease probe conjugate. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2019 , 29, 126663	2.9	5
118	Separation-Based Enzymomics Assay for the Discovery of Altered Peptide-Metabolizing Enzymatic Activities in Biosamples. <i>Analytical Chemistry</i> , 2019 , 91, 11497-11501	7.8	2
117	Activatable Photosensitizer for Targeted Ablation of -Positive Cells with Single-Cell Resolution. <i>ACS Central Science</i> , 2019 , 5, 1676-1681	16.8	26
116	Spray Fluorescent Probes for Fluorescence-Guided Neurosurgery. <i>Frontiers in Oncology</i> , 2019 , 9, 727	5.3	5
115	Development of ratiometric carbohydrate sensor based on boron dipyrromethene (BODIPY) scaffold. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2019 , 29, 126684	2.9	6
114	Design and Synthesis of an Activatable Photoacoustic Probe for Hypochlorous Acid. <i>Analytical Chemistry</i> , 2019 , 91, 9086-9092	7.8	21
113	Fluorescence Detection of Prostate Cancer by an Activatable Fluorescence Probe for PSMA Carboxypeptidase Activity. <i>Journal of the American Chemical Society</i> , 2019 , 141, 10409-10416	16.4	42
112	Design of Photostable, Activatable Near-Infrared Photoacoustic Probes Using Tautomeric Benzophthalocyanine as a Platform. <i>Angewandte Chemie</i> , 2019 , 131, 7870-7873	3.6	3
111	Design of Photostable, Activatable Near-Infrared Photoacoustic Probes Using Tautomeric Benzophthalocyanine as a Platform. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 7788-7791	16.4	26
110	Red Fluorescence Probe Targeted to Dipeptidylpeptidase-IV for Highly Sensitive Detection of Esophageal Cancer. <i>Bioconjugate Chemistry</i> , 2019 , 30, 1055-1060	6.3	14
109	Development and validation of an improved diced electrophoresis gel assay cutter-plate system for enzymomics studies. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2019 , 1867, 82-87	4	6
108	Design strategy for germanium-rhodamine based pH-activatable near-infrared fluorescence probes suitable for biological applications. <i>Communications Chemistry</i> , 2019 , 2,	6.3	15
107	A novel method for rapid detection of a Helicobacter pylori infection using a Eglutamyltranspeptidase-activatable fluorescent probe. <i>Scientific Reports</i> , 2019 , 9, 9467	4.9	7

106	Development of a platform for activatable fluorescent substrates of glucose transporters (GLUTs). <i>Bioorganic and Medicinal Chemistry</i> , 2019 , 27, 2122-2126	3.4	0
105	A novel liver-specific fluorescent anti-cancer drug delivery system using indocyanine green. <i>Scientific Reports</i> , 2019 , 9, 3044	4.9	6
104	BOT-03 INVESTIGATION OF NOVEL SPRAY TYPE FLUORESCENT PROBE FOR GLIOBLASTOMA DETECTION. <i>Neuro-Oncology Advances</i> , 2019 , 1, ii12-ii12	0.9	78
103	Rapid detection of superficial head and neck squamous cell carcinoma by topically spraying fluorescent probe targeting dipeptidyl peptidase-IV. <i>Head and Neck</i> , 2018 , 40, 1466-1475	4.2	7
102	Development of a Series of Practical Fluorescent Chemical Tools To Measure pH Values in Living Samples. <i>Journal of the American Chemical Society</i> , 2018 , 140, 5925-5933	16.4	88
101	Establishment of Molecular Design Strategy To Obtain Activatable Fluorescent Probes for Carboxypeptidases. <i>Journal of the American Chemical Society</i> , 2018 , 140, 1767-1773	16.4	41
100	Silicon Rhodamine-Based Near-Infrared Fluorescent Probe for α -Glutamyltransferase. <i>Bioconjugate Chemistry</i> , 2018 , 29, 241-244	6.3	52
99	Macrophage extracellular trap formation promoted by platelet activation is a key mediator of rhabdomyolysis-induced acute kidney injury. <i>Nature Medicine</i> , 2018 , 24, 232-238	50.5	72
98	Development of Dipicolylamine-Modified Cyclodextrins for the Design of Selective Guest-Responsive Receptors for ATP. <i>Molecules</i> , 2018 , 23,	4.8	11
97	Hybrid cell reactor system from Escherichia coli protoplast cells and arrayed lipid bilayer chamber device. <i>Scientific Reports</i> , 2018 , 8, 11757	4.9	5
96	Pancreatic Compression during Lymph Node Dissection in Laparoscopic Gastrectomy: Possible Cause of Pancreatic Leakage. <i>Journal of Gastric Cancer</i> , 2018 , 18, 134-141	3.2	16
95	Cryogenic Fluorescence Localization Microscopy of Spectrally Selected Individual FRET Pairs in a Water Matrix. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 6906-6911	3.4	2
94	IL-1 β Induces Pathologically Activated Osteoclasts Bearing Extremely High Levels of Resorbing Activity: A Possible Pathological Subpopulation of Osteoclasts, Accompanied by Suppressed Expression of Kindlin-3 and Talin-1. <i>Journal of Immunology</i> , 2018 , 200, 218-228	5.3	39
93	Factors affecting the uncaging efficiency of 500 nm light-activatable BODIPY caging group. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018 , 28, 1-5	2.9	11
92	SURG-11. PATHOLOGICAL INVESTIGATION OF NOVEL SPRAY-TYPE FLUORESCENT PROBES FOR BRAIN TUMORS. <i>Neuro-Oncology</i> , 2018 , 20, vi252-vi253	1	78
91	Red-Shifted Fluorogenic Substrate for Detection of lacZ-Positive Cells in Living Tissue with Single-Cell Resolution. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 15702-15706	16.4	21
90	Red-Shifted Fluorogenic Substrate for Detection of lacZ-Positive Cells in Living Tissue with Single-Cell Resolution. <i>Angewandte Chemie</i> , 2018 , 130, 15928-15932	3.6	5
89	Synthesis of unsymmetrical Si-rhodamine fluorophores and application to a far-red to near-infrared fluorescence probe for hypoxia. <i>Chemical Communications</i> , 2018 , 54, 6939-6942	5.8	23

88	A Reversible Fluorescent Probe for Real-Time Live-Cell Imaging and Quantification of Endogenous Hydropolysulfides. <i>Angewandte Chemie</i> , 2018 , 130, 9490-9494	3.6	6
87	A Reversible Fluorescent Probe for Real-Time Live-Cell Imaging and Quantification of Endogenous Hydropolysulfides. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 9346-9350	16.4	36
86	Development of an Azoreductase-based Reporter System with Synthetic Fluorogenic Substrates. <i>ACS Chemical Biology</i> , 2017 , 12, 558-563	4.9	28
85	Discovery of Cell-Type-Specific and Disease-Related Enzymatic Activity Changes via Global Evaluation of Peptide Metabolism. <i>Journal of the American Chemical Society</i> , 2017 , 139, 3465-3472	16.4	14
84	Intraoperative imaging of hepatic cancers using Eglutamyltranspeptidase-specific fluorophore enabling real-time identification and estimation of recurrence. <i>Scientific Reports</i> , 2017 , 7, 3542	4.9	32
83	An Activatable Photosensitizer Targeted to Eglutamyltranspeptidase. <i>Angewandte Chemie</i> , 2017 , 129, 10554-10558	3.6	26
82	An Activatable Photosensitizer Targeted to Eglutamyltranspeptidase. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 10418-10422	16.4	95
81	Fluorescence detection of serum albumin with a turnover-based sensor utilizing Kemp elimination reaction. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017 , 27, 3464-3467	2.9	10
80	Development of Chemical Tools to Monitor and Control Isoaspartyl Peptide Methyltransferase Activity. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 153-157	16.4	11
79	Development of a reversible fluorescent probe for reactive sulfur species, sulfane sulfur, and its biological application. <i>Chemical Communications</i> , 2017 , 53, 1064-1067	5.8	55
78	Development of Highly Selective Fluorescent Probe Enabling Flow-Cytometric Isolation of ALDH3A1-Positive Viable Cells. <i>Bioconjugate Chemistry</i> , 2017 , 28, 302-306	6.3	7
77	Development of an Azo-Based Photosensitizer Activated under Mild Hypoxia for Photodynamic Therapy. <i>Journal of the American Chemical Society</i> , 2017 , 139, 13713-13719	16.4	142
76	Development of an Activatable Fluorescent Probe for Prostate Cancer Imaging. <i>Bioconjugate Chemistry</i> , 2017 , 28, 2069-2076	6.3	19
75	Long time-lapse nanoscopy with spontaneously blinking membrane probes. <i>Nature Biotechnology</i> , 2017 , 35, 773-780	44.5	100
74	Rational design of reversible fluorescent probes for live-cell imaging and quantification of fast glutathione dynamics. <i>Nature Chemistry</i> , 2017 , 9, 279-286	17.6	276
73	A green-light-emitting, spontaneously blinking fluorophore based on intramolecular spirocyclization for dual-colour super-resolution imaging. <i>Chemical Communications</i> , 2017 , 54, 102-105	5.8	36
72	Feasibility of Using an Enzymatically Activatable Fluorescence Probe for the Rapid Evaluation of Pancreatic Tissue Obtained Using Endoscopic Ultrasound-Guided Fine Needle Aspiration: a Pilot Study. <i>Molecular Imaging and Biology</i> , 2016 , 18, 463-71	3.8	12
71	High affinity receptor labeling based on basic leucine zipper domain peptides conjugated with pH-sensitive fluorescent dye: Visualization of AMPA-type glutamate receptor endocytosis in living neurons. <i>Neuropharmacology</i> , 2016 , 100, 66-75	5.5	6

70	Development of practical red fluorescent probe for cytoplasmic calcium ions with greatly improved cell-membrane permeability. <i>Cell Calcium</i> , 2016 , 60, 256-65	4	20
69	Detection of LacZ-Positive Cells in Living Tissue with Single-Cell Resolution. <i>Angewandte Chemie</i> , 2016 , 128, 9772-9776	3.6	10
68	Detection of LacZ-Positive Cells in Living Tissue with Single-Cell Resolution. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 9620-4	16.4	73
67	Rapid and sensitive detection of early esophageal squamous cell carcinoma with fluorescence probe targeting dipeptidylpeptidase IV. <i>Scientific Reports</i> , 2016 , 6, 26399	4.9	47
66	Systemically Injectable Enzyme-Loaded Polyion Complex Vesicles as In Vivo Nanoreactors Functioning in Tumors. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 560-5	16.4	111
65	Unexpected Photo-instability of 2,6-Sulfonamide-Substituted BODIPYs and Its Application to Caged GABA. <i>ChemBioChem</i> , 2016 , 17, 1233-40	3.8	12
64	Novel Hexosaminidase-Targeting Fluorescence Probe for Visualizing Human Colorectal Cancer. <i>Bioconjugate Chemistry</i> , 2016 , 27, 973-81	6.3	36
63	Oral cancer intraoperative detection by topically spraying a Eglutamyl transpeptidase-activated fluorescent probe. <i>Oral Oncology</i> , 2016 , 54, e16-8	4.4	20
62	Discovery of a pyruvylated peptide-metabolizing enzyme using a fluorescent substrate-based protein discovery technique. <i>Chemical Communications</i> , 2016 , 52, 4377-80	5.8	7
61	Systemically Injectable Enzyme-Loaded Polyion Complex Vesicles as In Vivo Nanoreactors Functioning in Tumors. <i>Angewandte Chemie</i> , 2016 , 128, 570-575	3.6	25
60	Asymmetric Rhodamine-Based Fluorescent Probe for Multicolour In Vivo Imaging. <i>Chemistry - A European Journal</i> , 2016 , 22, 1696-703	4.8	40
59	Rapid diagnosis of lymph node metastasis in breast cancer using a new fluorescent method with Eglutamyl hydroxymethyl rhodamine green. <i>Scientific Reports</i> , 2016 , 6, 27525	4.9	15
58	Fluorescent imaging of superficial head and neck squamous cell carcinoma using a Eglutamyltranspeptidase-activated targeting agent: a pilot study. <i>BMC Cancer</i> , 2016 , 16, 411	4.8	21
57	Detection of NAD(P)H-dependent enzyme activity by time-domain ratiometry of terbium luminescence. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016 , 26, 2314-7	2.9	5
56	Confocal Bioluminescence Imaging for Living Tissues with a Caged Substrate of Luciferin. <i>Analytical Chemistry</i> , 2016 , 88, 6231-8	7.8	8
55	Rapid Cancer Fluorescence Imaging Using A Eglutamyltranspeptidase-Specific Probe For Primary Lung Cancer. <i>Translational Oncology</i> , 2016 , 9, 203-10	4.9	18
54	Rapid and sensitive fluorescent imaging of tiny tumors in vivo and in clinical specimens. <i>Current Opinion in Chemical Biology</i> , 2016 , 33, 9-15	9.7	15
53	Lactoferrin Suppresses Neutrophil Extracellular Traps Release in Inflammation. <i>EBioMedicine</i> , 2016 , 10, 204-15	8.8	81

52	A guide to use photocontrollable fluorescent proteins and synthetic smart fluorophores for nanoscopy. <i>Microscopy (Oxford, England)</i> , 2015 , 64, 263-77	1.3	31
51	Detection of NAD(P)H-dependent enzyme activity with dynamic luminescence quenching of terbium complexes. <i>Chemical Communications</i> , 2015 , 51, 8319-22	5.8	20
50	Development of a series of near-infrared dark quenchers based on Si-rhodamines and their application to fluorescent probes. <i>Journal of the American Chemical Society</i> , 2015 , 137, 4759-65	16.4	76
49	Intraoperative visualization of pancreatic juice leaking from the pancreatic stump in a swine model. <i>Gastroenterology</i> , 2015 , 149, 1334-6	13.3	14
48	Identification of tissue-restricted bioreaction suitable for in vivo targeting by fluorescent substrate library-based enzyme discovery. <i>Journal of the American Chemical Society</i> , 2015 , 137, 12187-90	16.4	17
47	Evaluation of enzymatic activities in living systems with small-molecular fluorescent substrate probes. <i>Analytical Sciences</i> , 2015 , 31, 257-65	1.7	34
46	Rapid intraoperative visualization of breast lesions with Eglutamyl hydroxymethyl rhodamine green. <i>Scientific Reports</i> , 2015 , 5, 12080	4.9	70
45	Development of Spontaneously Blinking Fluorophores for Super-Resolution Imaging. <i>Seibutsu Butsuri</i> , 2015 , 55, 031-033	0	
44	Development of a Sensitive Bioluminogenic Probe for Imaging Highly Reactive Oxygen Species in Living Rats. <i>Angewandte Chemie</i> , 2015 , 127, 14981-14984	3.6	10
43	Sensitive E β galactosidase-targeting fluorescence probe for visualizing small peritoneal metastatic tumours in vivo. <i>Nature Communications</i> , 2015 , 6, 6463	17.4	249
42	A pilot study of fluorescent imaging of colorectal tumors using a Eglutamyl-transpeptidase-activatable fluorescent probe. <i>Digestion</i> , 2015 , 91, 70-6	3.6	27
41	Photoacoustic imaging of small organic molecule-based photoacoustic probe in subcutaneous tumor using P(VDF-TrFE) acoustic sensor 2015 ,		1
40	Quantitating intracellular oxygen tension in vivo by phosphorescence lifetime measurement. <i>Scientific Reports</i> , 2015 , 5, 17838	4.9	33
39	Mechanistic background and clinical applications of indocyanine green fluorescence imaging of hepatocellular carcinoma. <i>Annals of Surgical Oncology</i> , 2014 , 21, 440-8	3.1	138
38	A highly sensitive, cell-membrane-permeable fluorescent probe for glutathione. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014 , 24, 4363-4366	2.9	21
37	Torque generation mechanism of F1-ATPase upon NTP binding. <i>Biophysical Journal</i> , 2014 , 107, 156-64	2.9	12
36	In vivo imaging of intraperitoneally disseminated tumors in model mice by using activatable fluorescent small-molecular probes for activity of cathepsins. <i>Bioconjugate Chemistry</i> , 2014 , 25, 1838-46	6.3	49
35	A spontaneously blinking fluorophore based on intramolecular spirocyclization for live-cell super-resolution imaging. <i>Nature Chemistry</i> , 2014 , 6, 681-9	17.6	250

34	Photoacoustic tomography of human hepatic malignancies using intraoperative indocyanine green fluorescence imaging. <i>PLoS ONE</i> , 2014 , 9, e112667	3.7	29
33	Selective Ablation of β -Galactosidase-Expressing Cells with a Rationally Designed Activatable Photosensitizer. <i>Angewandte Chemie</i> , 2014 , 126, 6890-6893	3.6	17
32	Selective ablation of β -galactosidase-expressing cells with a rationally designed activatable photosensitizer. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 6772-5	16.4	85
31	Acidic-pH-Activatable Fluorescence Probes for Visualizing Exocytosis Dynamics. <i>Angewandte Chemie</i> , 2014 , 126, 6199-6203	3.6	14
30	Arrayed lipid bilayer chambers allow single-molecule analysis of membrane transporter activity. <i>Nature Communications</i> , 2014 , 5, 4519	17.4	73
29	Rational design of highly sensitive fluorescence probes for protease and glycosidase based on precisely controlled spirocyclization. <i>Journal of the American Chemical Society</i> , 2013 , 135, 409-14	16.4	182
28	Rational Design and Development of Near-Infrared-Emitting Firefly Luciferins Available In Vivo. <i>Angewandte Chemie</i> , 2013 , 125, 1213-1217	3.6	12
27	Development of NIR fluorescent dyes based on Si-rhodamine for in vivo imaging. <i>Journal of the American Chemical Society</i> , 2012 , 134, 5029-31	16.4	211
26	Novel live imaging techniques of cellular functions and in vivo tumors based on precise design of small molecule-based β -activatable fluorescence probes. <i>Current Opinion in Chemical Biology</i> , 2012 , 16, 602-8	9.7	43
25	A long-lived luminescent probe to sensitively detect arylamine N-acetyltransferase (NAT) activity of cells. <i>Chemical Communications</i> , 2012 , 48, 2234-6	5.8	36
24	β -Galactosidase fluorescence probe with improved cellular accumulation based on a spirocyclized rhodol scaffold. <i>Journal of the American Chemical Society</i> , 2011 , 133, 12960-3	16.4	187
23	Development of an Si-rhodamine-based far-red to near-infrared fluorescence probe selective for hypochlorous acid and its applications for biological imaging. <i>Journal of the American Chemical Society</i> , 2011 , 133, 5680-2	16.4	463
22	Rapid cancer detection by topically spraying a β -glutamyltranspeptidase-activated fluorescent probe. <i>Science Translational Medicine</i> , 2011 , 3, 110ra119	17.5	323
21	Rational design of boron dipyrromethene (BODIPY)-based photobleaching-resistant fluorophores applicable to a protein dynamics study. <i>Chemical Communications</i> , 2011 , 47, 10055-7	5.8	51
20	Evolution of group 14 rhodamines as platforms for near-infrared fluorescence probes utilizing photoinduced electron transfer. <i>ACS Chemical Biology</i> , 2011 , 6, 600-8	4.9	264
19	Design and synthesis of a novel fluorescence probe for Zn ²⁺ based on the spirolactam ring-opening process of rhodamine derivatives. <i>Bioorganic and Medicinal Chemistry</i> , 2011 , 19, 1072-8	3.4	59
18	In Vivo Tiny Tumor Imaging with Precisely Designed Novel Small Molecule-Based Fluorescence Probes. <i>The Review of Laser Engineering</i> , 2010 , 38, 408-415	0	
17	New strategies for fluorescent probe design in medical diagnostic imaging. <i>Chemical Reviews</i> , 2010 , 110, 2620-40	68.1	1668

16	Development of enzyme-activated photosensitizer based on intramolecular electron transfer. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010 , 20, 4320-3	2.9	14
15	Selective molecular imaging of viable cancer cells with pH-activatable fluorescence probes. <i>Nature Medicine</i> , 2009 , 15, 104-9	50.5	657
14	Design and development of enzymatically activatable photosensitizer based on unique characteristics of thiazole orange. <i>Journal of the American Chemical Society</i> , 2009 , 131, 6058-9	16.4	63
13	Fluorophore-quencher based activatable targeted optical probes for detecting in vivo cancer metastases. <i>Molecular Pharmaceutics</i> , 2009 , 6, 386-95	5.6	88
12	Development of 2,6-carboxy-substituted boron dipyrromethene (BODIPY) as a novel scaffold of ratiometric fluorescent probes for live cell imaging. <i>Chemical Communications</i> , 2009 , 7015-7	5.8	60
11	An enzymatically activated fluorescence probe for targeted tumor imaging. <i>Journal of the American Chemical Society</i> , 2007 , 129, 3918-29	16.4	141
10	A self-quenched galactosamine-serum albumin-rhodamineX conjugate: a "smart" fluorescent molecular imaging probe synthesized with clinically applicable material for detecting peritoneal ovarian cancer metastases. <i>Clinical Cancer Research</i> , 2007 , 13, 6335-43	12.9	36
9	A target cell-specific activatable fluorescence probe for in vivo molecular imaging of cancer based on a self-quenched avidin-rhodamine conjugate. <i>Cancer Research</i> , 2007 , 67, 2791-9	10.1	95
8	Development of a highly specific rhodamine-based fluorescence probe for hypochlorous acid and its application to real-time imaging of phagocytosis. <i>Journal of the American Chemical Society</i> , 2007 , 129, 7313-8	16.4	395
7	In vivo spectral fluorescence imaging of submillimeter peritoneal cancer implants using a lectin-targeted optical agent. <i>Neoplasia</i> , 2006 , 8, 607-12	6.4	51
6	Targeted optical imaging of cancer cells using lectin-binding BODIPY conjugated avidin. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 348, 807-13	3.4	44
5	Evolution of fluorescein as a platform for finely tunable fluorescence probes. <i>Journal of the American Chemical Society</i> , 2005 , 127, 4888-94	16.4	553
4	Rational principles for modulating fluorescence properties of fluorescein. <i>Journal of the American Chemical Society</i> , 2004 , 126, 14079-85	16.4	270
3	Development of novel fluorescence probes that can reliably detect reactive oxygen species and distinguish specific species. <i>Journal of Biological Chemistry</i> , 2003 , 278, 3170-5	5.4	968
2	Bioimaging of nitric oxide with fluorescent indicators based on the rhodamine chromophore. <i>Analytical Chemistry</i> , 2001 , 73, 1967-73	7.8	252
1	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