

Tasuku Ueno

List of Publications by Year in descending order

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90
papers

6,523
citations

76326

40
h-index

62596

80
g-index

98
all docs

98
docs citations

98
times ranked

8124
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of Fluorescein as a Platform for Finely Tunable Fluorescence Probes. <i>Journal of the American Chemical Society</i> , 2005, 127, 4888-4894.	13.7	637
2	Development of a Highly Selective Fluorescence Probe for Hydrogen Sulfide. <i>Journal of the American Chemical Society</i> , 2011, 133, 18003-18005.	13.7	614
3	Fluorescent probes for sensing and imaging. <i>Nature Methods</i> , 2011, 8, 642-645.	19.0	544
4	Mechanism-Based Molecular Design of Highly Selective Fluorescence Probes for Nitritative Stress. <i>Journal of the American Chemical Society</i> , 2006, 128, 10640-10641.	13.7	324
5	Rational Principles for Modulating Fluorescence Properties of Fluorescein. <i>Journal of the American Chemical Society</i> , 2004, 126, 14079-14085.	13.7	314
6	Development of Azo-Based Fluorescent Probes to Detect Different Levels of Hypoxia. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13028-13032.	13.8	241
7	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.	13.7	206
8	Rapid and orthogonal logic gating with a gibberellin-induced dimerization system. <i>Nature Chemical Biology</i> , 2012, 8, 465-470.	8.0	183
9	Development of a Far-Red to Near-Infrared Fluorescence Probe for Calcium Ion and its Application to Multicolor Neuronal Imaging. <i>Journal of the American Chemical Society</i> , 2011, 133, 14157-14159.	13.7	176
10	Organelle-specific, rapid induction of molecular activities and membrane tethering. <i>Nature Methods</i> , 2010, 7, 206-208.	19.0	141
11	Highly Activatable and Rapidly Releasable Caged Fluorescein Derivatives. <i>Journal of the American Chemical Society</i> , 2007, 129, 6696-6697.	13.7	131
12	A Photocleavable Rapamycin Conjugate for Spatiotemporal Control of Small GTPase Activity. <i>Journal of the American Chemical Society</i> , 2011, 133, 12-14.	13.7	128
13	An Activatable Photosensitizer Targeted to β -Glutamyltranspeptidase. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10418-10422.	13.8	127
14	Tunable design strategy for fluorescence probes based on 4-substituted BODIPY chromophore: improvement of highly sensitive fluorescence probe for nitric oxide. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 386, 621-626.	3.7	123
15	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.	13.7	115
16	Reversible Off-On Fluorescence Probe for Hypoxia and Imaging of Hypoxia-Normoxia Cycles in Live Cells. <i>Journal of the American Chemical Society</i> , 2012, 134, 19588-19591.	13.7	110
17	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, 4759-4765.	13.7	109
18	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.	13.7	104

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19	Selective Ablation of β -Galactosidase-Expressing Cells with a Rationally Designed Activatable Photosensitizer. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6772-6775.	13.8	102
20	Boron Dipyrromethene As a Fluorescent Caging Group for Single-Photon Uncaging with Long-Wavelength Visible Light. <i>ACS Chemical Biology</i> , 2014, 9, 2242-2246.	3.4	87
21	Compartmentalized AMPK Signaling Illuminated by Genetically Encoded Molecular Sensors and Actuators. <i>Cell Reports</i> , 2015, 11, 657-670.	6.4	83
22	Gliotoxin Suppresses NF- κ B Activation by Selectively Inhibiting Linear Ubiquitin Chain Assembly Complex (LUBAC). <i>ACS Chemical Biology</i> , 2015, 10, 675-681.	3.4	77
23	A Water-Soluble Mechanochromic Luminescent Pyrene Derivative Exhibiting Recovery of the Initial Photoluminescence Color in a High-Humidity Environment. <i>Advanced Functional Materials</i> , 2013, 23, 5277-5284.	14.9	76
24	Covalent Attachment of Mechanoresponsive Luminescent Micelles to Glasses and Polymers in Aqueous Conditions. <i>Journal of the American Chemical Society</i> , 2014, 136, 4273-4280.	13.7	74
25	Discovery and Mechanistic Characterization of Selective Inhibitors of H ₂ S-producing Enzyme: 3-Mercaptopyruvate Sulfurtransferase (3MST) Targeting Active-site Cysteine Persulfide. <i>Scientific Reports</i> , 2017, 7, 40227.	3.3	73
26	Red Fluorescent Probe for Monitoring the Dynamics of Cytoplasmic Calcium Ions. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 3874-3877.	13.8	71
27	Development of a reversible fluorescent probe for reactive sulfur species, sulfane sulfur, and its biological application. <i>Chemical Communications</i> , 2017, 53, 1064-1067.	4.1	70
28	New Class of Bioluminogenic Probe Based on Bioluminescent Enzyme-Induced Electron Transfer: BioLeT. <i>Journal of the American Chemical Society</i> , 2015, 137, 4010-4013.	13.7	63
29	Development of Luciferin Analogues Bearing an Amino Group and Their Application as BRET Donors. <i>Chemistry - an Asian Journal</i> , 2010, 5, 2053-2061.	3.3	62
30	Synthetic spatially graded Rac activation drives cell polarization and movement. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E3668-77.	7.1	60
31	Development of a Sensitive Bioluminogenic Probe for Imaging Highly Reactive Oxygen Species in Living Rats. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14768-14771.	13.8	57
32	Creation of Superior Carboxyfluorescein Dyes by Blocking Donor-Excited Photoinduced Electron Transfer. <i>Organic Letters</i> , 2006, 8, 5963-5966.	4.6	55
33	Establishment of Molecular Design Strategy To Obtain Activatable Fluorescent Probes for Carboxypeptidases. <i>Journal of the American Chemical Society</i> , 2018, 140, 1767-1773.	13.7	55
34	Rational design of boron dipyrromethene (BODIPY)-based photobleaching-resistant fluorophores applicable to a protein dynamics study. <i>Chemical Communications</i> , 2011, 47, 10055.	4.1	54
35	Protein-Coupled Fluorescent Probe To Visualize Potassium Ion Transition on Cellular Membranes. <i>Analytical Chemistry</i> , 2016, 88, 2693-2700.	6.5	54
36	Triggering Actin Comets Versus Membrane Ruffles: Distinctive Effects of Phosphoinositides on Actin Reorganization. <i>Science Signaling</i> , 2011, 4, ra87.	3.6	49

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37	Analysis of Chemical Equilibrium of Silicon-Substituted Fluorescein and Its Application to Develop a Scaffold for Red Fluorescent Probes. <i>Analytical Chemistry</i> , 2015, 87, 9061-9069.	6.5	49
38	Development of hypoxia-sensitive Gd ³⁺ -based MRI contrast agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 2798-2802.	2.2	47
39	Red fluorescent scaffold for highly sensitive protease activity probes. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 3908-3911.	2.2	44
40	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.	13.8	41
41	Red-Shifted Fluorogenic Substrate for Detection of <i>Z</i> -Positive Cells in Living Tissue with Single-Cell Resolution. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15702-15706.	13.8	38
42	Design and Synthesis of an Activatable Photoacoustic Probe for Hypochlorous Acid. <i>Analytical Chemistry</i> , 2019, 91, 9086-9092.	6.5	37
43	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.	4.1	36
44	Development of an Azoreductase-based Reporter System with Synthetic Fluorogenic Substrates. <i>ACS Chemical Biology</i> , 2017, 12, 558-563.	3.4	33
45	Thermal or Mechanical Stimuli-Induced Photoluminescence Color Change of a Molecular Assembly Composed of an Amphiphilic Anthracene Derivative in Water. <i>Chemistry - A European Journal</i> , 2014, 20, 10397-10403.	3.3	32
46	Diced Electrophoresis Gel Assay for Screening Enzymes with Specified Activities. <i>Journal of the American Chemical Society</i> , 2013, 135, 6002-6005.	13.7	31
47	Bin/Amphiphysin/Rvs (BAR) family members bend membranes in cells. <i>Scientific Reports</i> , 2014, 4, 4693.	3.3	25
48	Red Fluorescence Probe Targeted to Dipeptidylpeptidase-IV for Highly Sensitive Detection of Esophageal Cancer. <i>Bioconjugate Chemistry</i> , 2019, 30, 1055-1060.	3.6	25
49	Development of practical red fluorescent probe for cytoplasmic calcium ions with greatly improved cell-membrane permeability. <i>Cell Calcium</i> , 2016, 60, 256-265.	2.4	24
50	Design of spontaneously blinking fluorophores for live-cell super-resolution imaging based on quantum-chemical calculations. <i>Chemical Communications</i> , 2020, 56, 13173-13176.	4.1	24
51	TokyoGreen derivatives as specific and practical fluorescent probes for UDP-glucuronosyltransferase (UGT) 1A1. <i>Chemical Communications</i> , 2013, 49, 3101.	4.1	23
52	Detection of NAD(P)H-dependent enzyme activity with dynamic luminescence quenching of terbium complexes. <i>Chemical Communications</i> , 2015, 51, 8319-8322.	4.1	22
53	Artificial Ligands of Streptavidin (ALiS): Discovery, Characterization, and Application for Reversible Control of Intracellular Protein Transport. <i>Journal of the American Chemical Society</i> , 2015, 137, 10464-10467.	13.7	22
54	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, 12187-12190.	13.7	20

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55	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.	13.7	17
56	Unexpected Photo-instability of 2,6-Sulfonamide-Substituted BODIPYs and Its Application to Caged GABA. <i>ChemBioChem</i> , 2016, 17, 1233-1240.	2.6	16
57	Toward total synthesis of cell function: Reconstituting cell dynamics with synthetic biology. <i>Science Signaling</i> , 2016, 9, re1.	3.6	16
58	Rapid detection of metastatic lymph nodes of colorectal cancer with a gamma-glutamyl transpeptidase-activatable fluorescence probe. <i>Scientific Reports</i> , 2018, 8, 17781.	3.3	15
59	Rational Design of a Near-Infrared Fluorescence Probe for Ca ²⁺ Based on Phosphorus-Substituted Rhodamines Utilizing Photoinduced Electron Transfer. <i>Chemistry - an Asian Journal</i> , 2020, 15, 524-530.	3.3	14
60	Nongenetic control of receptor signaling dynamics using a DNA-based optochemical tool. <i>Chemical Communications</i> , 2021, 57, 5969-5972.	4.1	14
61	Development of a fluorescent probe library enabling efficient screening of tumour-imaging probes based on discovery of biomarker enzymatic activities. <i>Chemical Science</i> , 2022, 13, 4474-4481.	7.4	14
62	Rapidly rendering cells phagocytic through a cell surface display technique and concurrent Rac activation. <i>Science Signaling</i> , 2014, 7, rs4.	3.6	13
63	A design strategy for small molecule-based targeted MRI contrast agents: their application for detection of atherosclerotic plaques. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 8611-8618.	2.8	13
64	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.	2.2	13
65	A protein-coupled fluorescent probe for organelle-specific imaging of Na ⁺ . <i>Sensors and Actuators B: Chemical</i> , 2018, 265, 575-581.	7.8	12
66	Development of Chemical Tools to Monitor and Control Isoaspartyl Peptide Methyltransferase Activity. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 153-157.	13.8	11
67	A cytosolically localized far-red to near-infrared rhodamine-based fluorescent probe for calcium ions. <i>Analyst</i> , 2020, 145, 7736-7740.	3.5	11
68	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.	13.7	11
69	Selective Two-Step Labeling of Proteins with an Off/On Fluorescent Probe. <i>Chemistry - A European Journal</i> , 2011, 17, 14763-14771.	3.3	10
70	Metabolic-Pathway-Oriented Screening Targeting S-Adenosyl-L-methionine Reveals the Epigenetic Remodeling Activities of Naturally Occurring Catechols. <i>Journal of the American Chemical Society</i> , 2020, 142, 21-26.	13.7	10
71	Amino BODIPY-Based Blue Fluorescent Probes for Aldehyde Dehydrogenase 1-Expressing Cells. <i>Bioconjugate Chemistry</i> , 2021, 32, 234-238.	3.6	10
72	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.	10.3	10

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73	Development of ratiometric carbohydrate sensor based on boron dipyrromethene (BODIPY) scaffold. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2019, 29, 126684.	2.2	9
74	Detection of NAD(P)H-dependent enzyme activity by time-domain ratiometry of terbium luminescence. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 2314-2317.	2.2	8
75	Development of Highly Selective Fluorescent Probe Enabling Flow-Cytometric Isolation of ALDH3A1-Positive Viable Cells. <i>Bioconjugate Chemistry</i> , 2017, 28, 302-306.	3.6	8
76	Manipulating Cellular Activities Using an Ultrasoundâ€“Chemical Hybrid Tool. <i>ACS Synthetic Biology</i> , 2017, 6, 2021-2027.	3.8	8
77	Spatio-Temporal Manipulation of Small GTPase Activity at Subcellular Level and on Timescale of Seconds in Living Cells. <i>Journal of Visualized Experiments</i> , 2012, , .	0.3	7
78	Discovery of a pyruvylated peptide-metabolizing enzyme using a fluorescent substrate-based protein discovery technique. <i>Chemical Communications</i> , 2016, 52, 4377-4380.	4.1	7
79	Redâ€“Shifted Fluorogenic Substrate for Detection of lac Zâ€“Positive Cells in Living Tissue with Singleâ€“Cell Resolution. <i>Angewandte Chemie</i> , 2018, 130, 15928-15932.	2.0	7
80	Fluorometric assay of integrin activity with a small-molecular probe that senses the binding site microenvironment. <i>Chemical Communications</i> , 2014, 50, 15894-15896.	4.1	6
81	Identification of Lung Inflammation-Related Elevation of Acylamino Acid Releasing Enzyme (APEH) Activity Using an Enzymomics Approach. <i>Chemical and Pharmaceutical Bulletin</i> , 2016, 64, 1533-1538.	1.3	5
82	Molecular design of near-infrared (NIR) fluorescent probes targeting exopeptidase and application for detection of dipeptidyl peptidase 4 (DPP-4) activity. <i>RSC Chemical Biology</i> , 2022, 3, 859-867.	4.1	5
83	Separation-Based Enzymomics Assay for the Discovery of Altered Peptide-Metabolizing Enzymatic Activities in Biosamples. <i>Analytical Chemistry</i> , 2019, 91, 11497-11501.	6.5	4
84	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.	6.4	4
85	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.	7.1	3
86	Development of a platform for activatable fluorescent substrates of glucose transporters (GLUTs). <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 2122-2126.	3.0	2
87	Zero temperature coefficient characteristic of four-corner-truncated square quartz resonator supported at four nodal points in Lamé mode. , 2010, , .		1
88	Bin/Amphiphysin/Rvs (BAR) Family Members Bend Membranes in Cells. <i>Biophysical Journal</i> , 2015, 108, 244a.	0.5	1
89	Development of Chemical Tools to Monitor and Control Isoaspartyl Peptide Methyltransferase Activity. <i>Angewandte Chemie</i> , 2017, 129, 159-163.	2.0	1
90	Synthesis of practical red fluorescent probe for cytoplasmic calcium ions with greatly improved cell-membrane permeability. <i>Data in Brief</i> , 2017, 12, 351-357.	1.0	1