Kenjiro Hanaoka

List of Publications by Year
in descending order

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64 papers	4,619 citations	126907 33 h-index	106344 65 g-index
68 all docs	68 docs citations	68 times ranked	5250 citing authors

#	Article	IF	Citations
1	Development of an Si-Rhodamine-Based Far-Red to Near-Infrared Fluorescence Probe Selective for Hypochlorous Acid and Its Applications for Biological Imaging. Journal of the American Chemical Society, 2011, 133, 5680-5682.	13.7	524
2	Evolution of Group 14 Rhodamines as Platforms for Near-Infrared Fluorescence Probes Utilizing Photoinduced Electron Transfer. ACS Chemical Biology, 2011, 6, 600-608.	3.4	339
3	Rational Design of Ratiometric Near-Infrared Fluorescent pH Probes with Various pK_a Values, Based on Aminocyanine. Journal of the American Chemical Society, 2011, 133, 3401-3409.	13.7	260
4	Development of NIR Fluorescent Dyes Based on Siâ€“rhodamine for in Vivo Imaging. Journal of the American Chemical Society, 2012, 134, 5029-5031.	13.7	259
5	Development of Azoâ€Based Fluorescent Probes to Detect Different Levels of Hypoxia. Angewandte Chemie - International Edition, 2013, 52, 13028-13032.	13.8	241
6	Rational Design of Highly Sensitive Fluorescence Probes for Protease and Glycosidase Based on Precisely Controlled Spirocyclization. Journal of the American Chemical Society, 2013, 135, 409-414.	13.7	231
7	Development of an Azo-Based Photosensitizer Activated under Mild Hypoxia for Photodynamic Therapy. Journal of the American Chemical Society, 2017, 139, 13713-13719.	13.7	206
8	Development of a Far-Red to Near-Infrared Fluorescence Probe for Calcium Ion and its Application to Multicolor Neuronal Imaging. Journal of the American Chemical Society, 2011, 133, 14157-14159.	13.7	176
9	Development of a fluorescein analogue, TokyoMagenta, as a novel scaffold for fluorescence probes in red region. Chemical Communications, 2011, 47, 4162.	4.1	151
10	Silicon-substituted xanthene dyes and their applications in bioimaging. Analyst, The, 2015, 140, 685-695.	3.5	132
11	Molecular Design Strategies for Nearâ€Infrared Ratiometric Fluorescent Probes Based on the Unique Spectral Properties of Aminocyanines. Chemistry - A European Journal, 2009, 15, 9191-9200.	3.3	122
12	Design Strategy for a Near-Infrared Fluorescence Probe for Matrix Metalloproteinase Utilizing Highly Cell Permeable Boron Dipyrromethene. Journal of the American Chemical Society, 2012, 134, 13730-13737.	13.7	120
13	Development of a Series of Practical Fluorescent Chemical Tools To Measure pH Values in Living Samples. Journal of the American Chemical Society, 2018, 140, 5925-5933.	13.7	115
14	Development of a Series of Near-Infrared Dark Quenchers Based on Si-rhodamines and Their Application to Fluorescent Probes. Journal of the American Chemical Society, 2015, 137, 4759-4765.	13.7	109
15	Selective Ablation of Î²â€Galactosidaseâ€Expressing Cells with a Rationally Designed Activatable Photosensitizer. Angewandte Chemie - International Edition, 2014, 53, 6772-6775.	13.8	102
16	Siliconâ€substituted Xanthene Dyes and Their Unique Photophysical Properties for Fluorescent Probes. Chemistry - an Asian Journal, 2017, 12, 1435-1446.	3.3	78
17	Discovery and Mechanistic Characterization of Selective Inhibitors of H2S-producing Enzyme: 3-Mercaptopyruvate Sulfurtransferase (3MST) Targeting Active-site Cysteine Persulfide. Scientific Reports, 2017, 7, 40227.	3.3	73
18	Thiosulfate Mediates Cytoprotective Effects of Hydrogen Sulfide Against Neuronal Ischemia. Journal of the American Heart Association, 2015, 4, .	3.7	72

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19	Red Fluorescent Probe for Monitoring the Dynamics of Cytoplasmic Calcium Ions. Angewandte Chemie - International Edition, 2013, 52, 3874-3877.	13.8	71
20	Sulfide catabolism ameliorates hypoxic brain injury. Nature Communications, 2021, 12, 3108.	12.8	71
21	Development of a reversible fluorescent probe for reactive sulfur species, sulfane sulfur, and its biological application. Chemical Communications, 2017, 53, 1064-1067.	4.1	70
22	Unbalanced excitability underlies offline reactivation of behaviorally activated neurons. Nature Neuroscience, 2014, 17, 503-505.	14.8	64
23	Design and synthesis of a novel fluorescence probe for Zn2+ based on the spirolactam ring-opening process of rhodamine derivatives. Bioorganic and Medicinal Chemistry, 2011, 19, 1072-1078.	3.0	63
24	Sodium Thiosulfate Attenuates Acute Lung Injury in Mice. Anesthesiology, 2014, 121, 1248-1257.	2.5	63
25	Establishment of Molecular Design Strategy To Obtain Activatable Fluorescent Probes for Carboxypeptidases. Journal of the American Chemical Society, 2018, 140, 1767-1773.	13.7	55
26	Analysis of Chemical Equilibrium of Silicon-Substituted Fluorescein and Its Application to Develop a Scaffold for Red Fluorescent Probes. Analytical Chemistry, 2015, 87, 9061-9069.	6.5	49
27	Red fluorescent scaffold for highly sensitive protease activity probes. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 3908-3911.	2.2	44
28	A Fluorescent Probe for Rapid, Highâ€Contrast Visualization of Folateâ€Receptorâ€Expressing Tumors Inâ€…Vivo. Angewandte Chemie - International Edition, 2020, 59, 6015-6020.	13.8	41
29	Design of Photostable, Activatable Nearâ€Infrared Photoacoustic Probes Using Tautomeric Benziphthalocyanine as a Platform. Angewandte Chemie - International Edition, 2019, 58, 7788-7791.	13.8	38
30	Real-time in vivo imaging of extracellular ATP in the brain with a hybrid-type fluorescent sensor. ELife, 2020, 9, .	6.0	38
31	Fluorescence Probe for Lysophospholipase C/NPP6 Activity and a Potent NPP6 Inhibitor. Journal of the American Chemical Society, 2011, 133, 12021-12030.	13.7	37
32	Design and Synthesis of an Activatable Photoacoustic Probe for Hypochlorous Acid. Analytical Chemistry, 2019, 91, 9086-9092.	6.5	37
33	Hypoxia-inducible factor-1 alpha maintains mouse articular cartilage through suppression of NF-ÎºB signaling. Scientific Reports, 2020, 10, 5425.	3.3	37
34	Synthesis of unsymmetrical Si-rhodamine fluorophores and application to a far-red to near-infrared fluorescence probe for hypoxia. Chemical Communications, 2018, 54, 6939-6942.	4.1	36
35	A Timeâ€Resolved Fluorescence Probe for Dipeptidyl Peptidase 4 and Its Application in Inhibitor Screening. Chemistry - A European Journal, 2010, 16, 13479-13486.	3.3	34
36	Development of an Azoreductase-based Reporter System with Synthetic Fluorogenic Substrates. ACS Chemical Biology, 2017, 12, 558-563.	3.4	33

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37	Diced Electrophoresis Gel Assay for Screening Enzymes with Specified Activities. Journal of the American Chemical Society, 2013, 135, 6002-6005.	13.7	31
38	Design strategy for germanium-rhodamine based pH-activatable near-infrared fluorescence probes suitable for biological applications. Communications Chemistry, 2019, 2, .	4.5	29
39	A Fluorescent Probe for Rapid, Highâ€Contrast Visualization of Folateâ€Receptorâ€Expressing Tumors Inâ€…Vivo. Angewandte Chemie, 2020, 132, 6071-6076.	2.0	28
40	Azobenzene-caged sulforhodamine dyes: a novel class of â€˜turn-onâ€™ reactive probes for hypoxic tumor cell imaging. Methods and Applications in Fluorescence, 2015, 3, 044004.	2.3	26
41	Red Fluorescence Probe Targeted to Dipeptidylpeptidase-IV for Highly Sensitive Detection of Esophageal Cancer. Bioconjugate Chemistry, 2019, 30, 1055-1060.	3.6	25
42	Development of practical red fluorescent probe for cytoplasmic calcium ions with greatly improved cell-membrane permeability. Cell Calcium, 2016, 60, 256-265.	2.4	24
43	Design of spontaneously blinking fluorophores for live-cell super-resolution imaging based on quantum-chemical calculations. Chemical Communications, 2020, 56, 13173-13176.	4.1	24
44	Identification of Tissue-Restricted Bioreaction Suitable for in Vivo Targeting by Fluorescent Substrate Library-Based Enzyme Discovery. Journal of the American Chemical Society, 2015, 137, 12187-12190.	13.7	20
45	Discovery of Cell-Type-Specific and Disease-Related Enzymatic Activity Changes via Global Evaluation of Peptide Metabolism. Journal of the American Chemical Society, 2017, 139, 3465-3472.	13.7	17
46	Calciprotein particle-induced cytotoxicity via lysosomal dysfunction and altered cholesterol distribution in renal epithelial HK-2 cells. Scientific Reports, 2020, 10, 20125.	3.3	16
47	Rapid detection of metastatic lymph nodes of colorectal cancer with a gamma-glutamyl transpeptidase-activatable fluorescence probe. Scientific Reports, 2018, 8, 17781.	3.3	15
48	Rational Design of a Nearâ€infrared Fluorescence Probe for Ca²⁺ Based on Phosphorusâ€substituted Rhodamines Utilizing Photoinduced Electron Transfer. Chemistry - an Asian Journal, 2020, 15, 524-530.	3.3	14
49	Development of a fluorescent probe library enabling efficient screening of tumour-imaging probes based on discovery of biomarker enzymatic activities. Chemical Science, 2022, 13, 4474-4481.	7.4	14
50	Fluorescence detection of serum albumin with a turnover-based sensor utilizing Kemp elimination reaction. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 3464-3467.	2.2	13
51	Development of Chemical Tools to Monitor and Control Isoaspartyl Peptide Methyltransferase Activity. Angewandte Chemie - International Edition, 2017, 56, 153-157.	13.8	11
52	A cytosolically localized far-red to near-infrared rhodamine-based fluorescent probe for calcium ions. Analyst, The, 2020, 145, 7736-7740.	3.5	11
53	Antibody Clicking as a Strategy to Modify Antibody Functionalities on the Surface of Targeted Cells. Journal of the American Chemical Society, 2020, 142, 15644-15648.	13.7	11
54	Metabolic-Pathway-Oriented Screening Targeting S-Adenosyl-l-methionine Reveals the Epigenetic Remodeling Activities of Naturally Occurring Catechols. Journal of the American Chemical Society, 2020, 142, 21-26.	13.7	10

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55	Discovery of a pyruvylated peptide-metabolizing enzyme using a fluorescent substrate-based protein discovery technique. Chemical Communications, 2016, 52, 4377-4380.	4.1	7
56	How Viscous Is the Solidlike Structure at the Interface of Ionic Liquids? A Study Using Total Internal Reflection Fluorescence Spectroscopy with a Fluorescent Molecular Probe Sensitive to High Viscosity. Langmuir, 2020, 36, 10397-10403.	3.5	7
57	Matrix metalloproteaseâ€“14 is a target enzyme for detecting peritoneal metastasis in gastric cancer. Photodiagnosis and Photodynamic Therapy, 2021, 35, 102420.	2.6	7
58	Rapid Visualization of Deeply Located Tumors In Vivo by Intravenous Administration of a Î³-Glutamyltranspeptidase-Activated Fluorescent Probe. Bioconjugate Chemistry, 2022, 33, 523-529.	3.6	6
59	Molecular design of near-infrared (NIR) fluorescent probes targeting exopeptidase and application for detection of dipeptidyl peptidase 4 (DPP-4) activity. RSC Chemical Biology, 2022, 3, 859-867.	4.1	5
60	Separation-Based Enzymomics Assay for the Discovery of Altered Peptide-Metabolizing Enzymatic Activities in Biosamples. Analytical Chemistry, 2019, 91, 11497-11501.	6.5	4
61	Establishment of live-cell-based coupled assay system for identification of compounds to modulate metabolic activities of cells. Cell Reports, 2021, 36, 109311.	6.4	4
62	Design of Photostable, Activatable Nearâ€Infrared Photoacoustic Probes Using Tautomeric Benziphthalocyanine as a Platform. Angewandte Chemie, 2019, 131, 7870-7873.	2.0	3
63	Development of a small-molecule-based activatable photoacoustic probe. Methods in Enzymology, 2021, 657, 1-19.	1.0	1
64	Detection of singularity in immunity and cancer by novel imaging techniques. Biophysics and Physicobiology, 2020, 17, 98-99.	1.0	0