

Kazuki Tainaka

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

4,428
citations

257450

24
h-index

243625

44
g-index

51
all docs

51
docs citations

51
times ranked

5532
citing authors

#	ARTICLE	IF	CITATIONS
1	Whole-Brain Imaging with Single-Cell Resolution Using Chemical Cocktails and Computational Analysis. <i>Cell</i> , 2014, 157, 726-739.	28.9	1,097
2	Advanced CUBIC protocols for whole-brain and whole-body clearing and imaging. <i>Nature Protocols</i> , 2015, 10, 1709-1727.	12.0	615
3	Whole-Body Imaging with Single-Cell Resolution by Tissue Decolorization. <i>Cell</i> , 2014, 159, 911-924.	28.9	404
4	Chemical Principles in Tissue Clearing and Staining Protocols for Whole-Body Cell Profiling. <i>Annual Review of Cell and Developmental Biology</i> , 2016, 32, 713-741.	9.4	238
5	A three-dimensional single-cell-resolution whole-brain atlas using CUBIC-X expansion microscopy and tissue clearing. <i>Nature Neuroscience</i> , 2018, 21, 625-637.	14.8	234
6	Chemical Landscape for Tissue Clearing Based on Hydrophilic Reagents. <i>Cell Reports</i> , 2018, 24, 2196-2210.e9.	6.4	221
7	Whole-Body Profiling of Cancer Metastasis with Single-Cell Resolution. <i>Cell Reports</i> , 2017, 20, 236-250.	6.4	194
8	Versatile whole-organ/body staining and imaging based on electrolyte-gel properties of biological tissues. <i>Nature Communications</i> , 2020, 11, 1982.	12.8	134
9	Clear Distinction of Purine Bases on the Complementary Strand by a Fluorescence Change of a Novel Fluorescent Nucleoside. <i>Journal of the American Chemical Society</i> , 2003, 125, 4972-4973.	13.7	123
10	PRODAN-Conjugated DNA: Synthesis and Photochemical Properties. <i>Journal of the American Chemical Society</i> , 2007, 129, 4776-4784.	13.7	99
11	Direct Labeling of 5-Methylcytosine and Its Applications. <i>Journal of the American Chemical Society</i> , 2007, 129, 5612-5620.	13.7	88
12	Monitoring DNA Structures by Dual Fluorescence of Pyrene Derivatives. <i>Journal of the American Chemical Society</i> , 2005, 127, 13128-13129.	13.7	83
13	An Osmium-DNA Interstrand Complex: Application to Facile DNA Methylation Analysis. <i>Journal of the American Chemical Society</i> , 2007, 129, 14511-14517.	13.7	79
14	Temperature-Sensitive Substrate and Product Binding Underlie Temperature-Compensated Phosphorylation in the Clock. <i>Molecular Cell</i> , 2017, 67, 783-798.e20.	9.7	79
15	Nile Red Nucleoside: Design of a Solvatofluorochromic Nucleoside as an Indicator of Micropolarity around DNA. <i>Journal of Organic Chemistry</i> , 2006, 71, 3592-3598.	3.2	69
16	Design Strategies of Fluorescent Biosensors Based on Biological Macromolecular Receptors. <i>Sensors</i> , 2010, 10, 1355-1376.	3.8	67
17	Three-dimensional understanding of the morphological complexity of the human uterine endometrium. <i>IScience</i> , 2021, 24, 102258.	4.1	59
18	Synthesis and properties of a novel fluorescent nucleobase, naphthopyridopyrimidine. <i>Tetrahedron Letters</i> , 2003, 44, 6871-6874.	1.4	55

#	ARTICLE	IF	CITATIONS
19	Sequence-selective osmium oxidation of DNA: efficient distinction between 5-methylcytosine and cytosine. <i>Organic and Biomolecular Chemistry</i> , 2006, 4, 1638.	2.8	50
20	Simple SNP typing assay using a base-discriminating fluorescent probe. <i>Molecular BioSystems</i> , 2006, 2, 122.	2.9	50
21	Sequence Dependence of Excess Electron Transfer in DNA. <i>Journal of Physical Chemistry B</i> , 2010, 114, 14657-14663.	2.6	40
22	A Dielectric-Sensitive Fluorescent DNA Probe for Monitoring Polarities on the Interior of a DNA-Binding Protein. <i>Bioconjugate Chemistry</i> , 2005, 16, 1105-1111.	3.6	36
23	Synthesis and fluorescence properties of dimethylaminonaphthalene-deoxyuridine conjugates as polarity-sensitive probes. <i>Tetrahedron</i> , 2007, 63, 3465-3470.	1.9	36
24	Mechanical load regulates bone growth via periosteal Osteocrin. <i>Cell Reports</i> , 2021, 36, 109380.	6.4	29
25	A single circularly permuted GFP sensor for inositol-1,3,4,5-tetrakisphosphate based on a split PH domain. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 7381-7386.	3.0	26
26	Spatiotemporal dynamics of clonal selection and diversification in normal endometrial epithelium. <i>Nature Communications</i> , 2022, 13, 943.	12.8	24
27	Detection of A/G Single Nucleotide Alteration in RNA Using Base-discriminating Fluorescent Oligodeoxynucleotides. <i>Chemistry Letters</i> , 2003, 32, 684-685.	1.3	19
28	Methylcytosine-selective fluorescence quenching by osmium complexation. <i>Bioorganic and Medicinal Chemistry</i> , 2007, 15, 1615-1621.	3.0	19
29	Positional Effects of Phosphorylation on the Stability and Morphology of Tau-Related Amyloid Fibrils. <i>Biochemistry</i> , 2012, 51, 1396-1406.	2.5	18
30	An In Vivo Fluorescent Sensor Reveals Intracellular Ins(1,3,4,5)P ₄ Dynamics in Single Cells. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 2150-2153.	13.8	16
31	Oligonucleotides containing 7-vinyl-7-deazaguanine as a facile strategy for expanding the functional diversity of DNA. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2002, 12, 1895-1896.	2.2	15
32	Charge-Pairing Mechanism of Phosphorylation Effect upon Amyloid Fibrillation of Human Tau Core Peptide. <i>Biochemistry</i> , 2008, 47, 11847-11857.	2.5	15
33	Osmium Complexation of Mismatched DNA: Effect of the Bases Adjacent to Mismatched 5-Methylcytosine. <i>Bioconjugate Chemistry</i> , 2009, 20, 603-607.	3.6	15
34	Whole-organ analysis of TGF- β -mediated remodelling of the tumour microenvironment by tissue clearing. <i>Communications Biology</i> , 2021, 4, 294.	4.4	14
35	Generation of Singlet Oxygen during Photosensitized One-Electron Oxidation of DNA. <i>Chemistry - A European Journal</i> , 2012, 18, 1060-1063.	3.3	13
36	Rapid chemical clearing of white matter in the post-mortem human brain by 1,2-hexanediol delipidation. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2019, 29, 1886-1890.	2.2	12

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37	Highly selective fluorescent nucleobases for designing base-discriminating fluorescent probes. <i>Pure and Applied Chemistry</i> , 2006, 78, 2305-2312.	1.9	9
38	Neurotransmission through dopamine D1 receptors is required for aversive memory formation and Arc activation in the cerebral cortex. <i>Neuroscience Research</i> , 2020, 156, 58-65.	1.9	9
39	Nile Red nucleoside : Novel nucleoside analog with a fluorophore replacing the DNA base. <i>Nucleic Acids Symposium Series</i> , 2005, 49, 155-156.	0.3	5
40	ICON Probes: Synthesis and DNA Methylation Typing. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2011, 47, Unit 8.7.1-17.	0.5	3
41	Non-Enzymatic DNA Cleavage Reaction Induced by 5-Ethynyluracil in Methylamine Aqueous Solution and Application to DNA Concatenation. <i>PLoS ONE</i> , 2014, 9, e92369.	2.5	3
42	Using a new three-dimensional CUBIC tissue-clearing method to examine the brain during experimental cerebral malaria. <i>International Immunology</i> , 2021, 33, 587-594.	4.0	2
43	The amyloid fibrillization of phosphorylated human tau core peptides. <i>Transactions of the Materials Research Society of Japan</i> , 2009, 34, 517-520.	0.2	2
44	Development of a novel solvatochromic pyrimidine analog for probing local dielectric environment of DNA polymerase. <i>Nucleic Acids Symposium Series</i> , 2004, 48, 31-32.	0.3	0
45	Development of ribonucleopeptide-based fluorescent sensors for biologically active amines based on the stepwise molding strategy. <i>Nucleic Acids Symposium Series</i> , 2008, 52, 201-202.	0.3	0
46	Title is missing!. <i>Kagaku To Seibutsu</i> , 2015, 53, 737-740.	0.0	0
47	Imaging of microglia and macrophage in an animal model of peripheral inflammatory pain. <i>Pain Research</i> , 2019, 34, 31-38.	0.1	0