

Hisakage Funabashi

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

2,252
citations

361413

20
h-index

214800

47
g-index

63
all docs

63
docs citations

63
times ranked

2869
citing authors

#	ARTICLE	IF	CITATIONS
1	A mechanical metamaterial made from a DNA hydrogel. <i>Nature Nanotechnology</i> , 2012, 7, 816-820.	31.5	484
2	A cell-free protein-producing gel. <i>Nature Materials</i> , 2009, 8, 432-437.	27.5	287
3	Biodegradable CpG DNA hydrogels for sustained delivery of doxorubicin and immunostimulatory signals in tumor-bearing mice. <i>Biomaterials</i> , 2011, 32, 488-494.	11.4	186
4	Multifunctional nanoarchitectures from DNA-based ABC monomers. <i>Nature Nanotechnology</i> , 2009, 4, 430-436.	31.5	164
5	A Novel Glucosylation Reaction on Anthocyanins Catalyzed by Acyl-Glucose-Dependent Glucosyltransferase in the Petals of Carnation and Delphinium Å. <i>Plant Cell</i> , 2010, 22, 3374-3389.	6.6	111
6	The assembly of a short linear natural cytosine-phosphate-guanine DNA into dendritic structures and its effect on immunostimulatory activity. <i>Biomaterials</i> , 2009, 30, 5701-5706.	11.4	104
7	Intracellular delivery of antibodies using TAT fusion protein A. <i>Biochemical and Biophysical Research Communications</i> , 2003, 310, 730-734.	2.1	60
8	High-yield cell-free protein production from P-gel. <i>Nature Protocols</i> , 2009, 4, 1759-1770.	12.0	58
9	Construction of epidermal growth factor fusion protein with cell adhesive activity. <i>Biomaterials</i> , 2006, 27, 3451-3458.	11.4	55
10	Photodynamic Activities of Porphyrin Derivative- Cyclodextrin Complexes by Photoirradiation. <i>ACS Medicinal Chemistry Letters</i> , 2017, 8, 555-559.	2.8	54
11	A Novel Biocontainment Strategy Makes Bacterial Growth and Survival Dependent on Phosphite. <i>Scientific Reports</i> , 2017, 7, 44748.	3.3	42
12	Fabrication of an antibody microwell array with self-adhering antibody binding protein. <i>Analytical Biochemistry</i> , 2006, 350, 298-303.	2.4	41
13	Cell-surface-localized ATP detection with immobilized firefly luciferase. <i>Analytical Biochemistry</i> , 2006, 352, 61-67.	2.4	39
14	Synthetic Phosphorus Metabolic Pathway for Biosafety and Contamination Management of Cyanobacterial Cultivation. <i>ACS Synthetic Biology</i> , 2018, 7, 2189-2198.	3.8	39
15	A Universal DNA-Based Protein Detection System. <i>Journal of the American Chemical Society</i> , 2013, 135, 14008-14011.	13.7	35
16	A split G-quadruplex-based DNA nano-tweezers structure as a signal-transducing molecule for the homogeneous detection of specific nucleic acids. <i>Biosensors and Bioelectronics</i> , 2015, 74, 222-226.	10.1	34
17	Pore-Scale Quantification of Colloid Transport in Saturated Porous Media. <i>Environmental Science & Technology</i> , 2008, 42, 517-523.	10.0	30
18	Improved photodynamic activities of liposome-incorporated [60]fullerene derivatives bearing a polar group. <i>Chemical Communications</i> , 2017, 53, 2966-2969.	4.1	30

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19	Porphyrin-uptake in liposomes and living cells using an exchange method with cyclodextrin. <i>RSC Advances</i> , 2015, 5, 105279-105287.	3.6	29
20	Method for Detection of Specific Nucleic Acids by Recombinant Protein with Fluorescent Resonance Energy Transfer. <i>Analytical Chemistry</i> , 2005, 77, 4308-4314.	6.5	28
21	A FRET-based DNA nano-tweezer technique for the imaging analysis of specific mRNA. <i>Analyst, The</i> , 2015, 140, 999-1003.	3.5	18
22	Continuous Monitoring of Specific mRNA Expression Responses with a Fluorescence Resonance Energy Transfer-Based DNA Nano-tweezer Technique That Does Not Require Gene Recombination. <i>Analytical Chemistry</i> , 2016, 88, 7894-7898.	6.5	18
23	Transduction of NeuroD2 protein induced neural cell differentiation. <i>Journal of Biotechnology</i> , 2006, 126, 230-236.	3.8	17
24	In vitro selection of zinc finger DNA-binding proteins through ribosome display. <i>Biochemical and Biophysical Research Communications</i> , 2006, 345, 1149-1154.	2.1	17
25	Noise-free accurate count of microbial colonies by time-lapse shadow image analysis. <i>Journal of Microbiological Methods</i> , 2012, 91, 420-428.	1.6	16
26	A BRET-Based Homogeneous Insulin Assay Using Interacting Domains in the Primary Binding Site of the Insulin Receptor. <i>Analytical Chemistry</i> , 2015, 87, 2764-2770.	6.5	16
27	Improvement of Photodynamic Activity of Lipid- π -Membrane- π -Incorporated Fullerene Derivative by Combination with a Photo- π -Antenna Molecule. <i>Chemistry - A European Journal</i> , 2018, 24, 7335-7339.	3.3	16
28	Live-cell imaging of macrophage phagocytosis of asbestos fibers under fluorescence microscopy. <i>Genes and Environment</i> , 2019, 41, 14.	2.1	16
29	Application of peptides with an affinity for phospholipid membranes during the automated purification of extracellular vesicles. <i>Scientific Reports</i> , 2020, 10, 18718.	3.3	15
30	Non-destructive monitoring of rpoS promoter activity as stress marker for evaluating cellular physiological status. <i>Journal of Biotechnology</i> , 2002, 95, 85-93.	3.8	14
31	Construction of Intramolecular Luciferase Complementation Probe for Detecting Specific RNA. <i>Bioconjugate Chemistry</i> , 2007, 18, 956-962.	3.6	14
32	Activity-based in vitro selection of T4 DNA ligase. <i>Biochemical and Biophysical Research Communications</i> , 2005, 336, 987-993.	2.1	12
33	High photodynamic activities of water-soluble inclusion complexes of 5,15-diazaporphyrins in cyclodextrin. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 3141-3149.	2.8	12
34	Construction of streptavidin-luciferase fusion protein for ATP sensing with fixed form. <i>Biotechnology Letters</i> , 2004, 26, 1061-1066.	2.2	11
35	Bioluminescent monitoring of intracellular ATP during fermentation. <i>Luminescence</i> , 1999, 14, 291-296.	2.9	10
36	Sox2 regulatory region 2 sequence works as a DNA nuclear targeting sequence enhancing the efficiency of an exogenous gene expression in ES cells. <i>Biochemical and Biophysical Research Communications</i> , 2010, 400, 554-558.	2.1	10

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37	Aggregation-Induced Emission and Retention of Crystal Chiral Information of Tetraphenylethylene Incorporated by Polysaccharides in Water. <i>ChemPhotoChem</i> , 2020, 4, 577-581.	3.0	10
38	Glucose oxidase assisted homogeneous electrochemical receptor binding assay for drug screening. <i>Biosensors and Bioelectronics</i> , 2006, 21, 1675-1683.	10.1	9
39	Design of a Thermocontrollable Protein Complex. <i>Bioconjugate Chemistry</i> , 2007, 18, 1619-1624.	3.6	9
40	Assessment of small ligand-protein interactions by electrophoretic mobility shift assay using DNA-modified ligand as a sensing probe. <i>Biotechnology Letters</i> , 2007, 29, 785-789.	2.2	9
41	Hemin/G-quadruplex Complex as a Signal Generator for Electrochemical Assays of Bioanalytes. <i>Electrochemistry</i> , 2016, 84, 290-295.	1.4	8
42	Engineering Cofactor Specificity of a Thermostable Phosphite Dehydrogenase for a Highly Efficient and Robust NADPH Regeneration System. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 647176.	4.1	8
43	Utilization of Fluorescent Glucose Analog 2-NBDG as a Metabolic Indicator for FACS Analysis during ES Cell Differentiation. <i>Electrochemistry</i> , 2012, 80, 299-301.	1.4	6
44	Stabilisation of lipid membrane-incorporated porphyrin derivative aqueous solutions and their photodynamic activities. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 459-466.	2.9	6
45	Insulin sensor cells for the analysis of insulin secretion responses in single living pancreatic β^2 cells. <i>Analyst</i> , 2019, 144, 3765-3772.	3.5	6
46	Arginine-mediated dissociation of single cells and cell sheets from a polystyrene culture dish. <i>Bioscience, Biotechnology and Biochemistry</i> , 2019, 83, 2272-2275.	1.3	5
47	Evaluation of small ligand-protein interaction by ligation reaction with DNA-modified ligand. <i>Biotechnology Letters</i> , 2010, 32, 97-102.	2.2	4
48	Tryptic soy medium is feasible for the in situ preparation of standards containing small defined numbers of microbial cells. <i>Journal of Microbiological Methods</i> , 2013, 93, 49-51.	1.6	4
49	Analysis of Odor Compounds in Feces of Mice that Were Exposed to Various Stresses during Breeding. <i>Experimental Animals</i> , 2013, 62, 101-107.	1.1	4
50	Assembly of zinc finger motif-fused enzymes on a dsDNA scaffold for catalyzing consecutive reactions with a proximity effect. <i>Biotechnology Letters</i> , 2015, 37, 109-114.	2.2	4
51	Fluorescent monitoring of cellular physiological status depending on the accumulation of ppGpp. <i>Biotechnology Letters</i> , 2002, 24, 269-273.	2.2	3
52	On-chip biosensing of estrogen receptor- α at single molecular level. <i>Biosensors and Bioelectronics</i> , 2004, 19, 1573-1579.	10.1	3
53	Electrochemical evaluation of cellular physiological status under stress in <i>Escherichia coli</i> with thermoS-lacZ reporter gene. <i>Biotechnology and Bioengineering</i> , 2005, 90, 509-515.	3.3	3
54	Delivery of antibody-captured proteins into living cells using PTD-fused protein A. <i>Biotechnology Letters</i> , 2006, 28, 1209-1214.	2.2	3

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55	A femto-injection technique for dynamic analysis of protein function in living embryonic stem cells. <i>Biotechnology Letters</i> , 2012, 34, 1257-1262.	2.2	2
56	Targeted delivery of a decoy oligodeoxynucleotide to a single ES cell by femtoinjection. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013, 9, 855-863.	3.3	2
57	Bioluminescent enumeration of surface antigen-specific cells using the streptavidin-luciferase fusion protein. <i>Sensors and Actuators B: Chemical</i> , 2006, 120, 51-56.	7.8	0
58	<i>Nucleic Acid Engineering</i> . , 0, , 549-575.		0
59	Development of a Protocol for Selection of GenesFit for the <i>In Vivo</i> Knockdown Method and its Application to Insulin Receptor Substrate Genes in Mice. <i>Experimental Animals</i> , 2013, 62, 117-125.	1.1	0
60	<i>Biosensors: Biosensors Using Engineered Protein</i> . , 2022, , .		0