

Ryuichi Hirota

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,563
citations

304743

22
h-index

315739

38
g-index

52
all docs

52
docs citations

52
times ranked

2149
citing authors

#	ARTICLE	IF	CITATIONS
1	Biodiversity risk assessment of genetically modified <i>Chaetoceros gracilis</i> for outdoor cultivation. <i>Journal of General and Applied Microbiology</i> , 2022, 68, 151-162.	0.7	1
2	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
3	Phosphite Reduces the Predation Impact of <i>Poteroiochromonas malhamensis</i> on Cyanobacterial Culture. <i>Plants</i> , 2021, 10, 1361.	3.5	5
4	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
5	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
6	Live-cell imaging of macrophage phagocytosis of asbestos fibers under fluorescence microscopy. <i>Genes and Environment</i> , 2019, 41, 14.	2.1	16
7	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
8	Biological Phosphite Oxidation and Its Application to Phosphorus Recycling. , 2019, , 499-513.		6
9	Synthetic Phosphorus Metabolic Pathway for Biosafety and Contamination Management of Cyanobacterial Cultivation. <i>ACS Synthetic Biology</i> , 2018, 7, 2189-2198.	3.8	39
10	A Novel Biocontainment Strategy Makes Bacterial Growth and Survival Dependent on Phosphite. <i>Scientific Reports</i> , 2017, 7, 44748.	3.3	42
11	“ <i>Chaetoceros gracilis</i> の遺伝子改変による多様性リスク評価”. <i>Kagaku To Seibutsu</i> , 2017, 55, 367-372.		
12	Differential Counting of Asbestos Using Phase Contrast and Fluorescence Microscopy. <i>Annals of Occupational Hygiene</i> , 2016, 60, 1104-1115.	1.9	4
13	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
14	Application of volcanic ash particles for protein affinity purification with a minimized silica-binding tag. <i>Journal of Bioscience and Bioengineering</i> , 2016, 122, 633-638.	2.2	24
15	A <i>Lactobacillus</i> mutant capable of accumulating long-chain polyphosphates that enhance intestinal barrier function. <i>Bioscience, Biotechnology and Biochemistry</i> , 2016, 80, 955-961.	1.3	15
16	The C-Terminal Zwitterionic Sequence of CotB1 Is Essential for Biosilicification of the <i>Bacillus cereus</i> Spore Coat. <i>Journal of Bacteriology</i> , 2016, 198, 276-282.	2.2	14
17	Development of an automated asbestos counting software based on fluorescence microscopy. <i>Environmental Monitoring and Assessment</i> , 2015, 187, 4166.	2.7	6
18	Discovery of phosphonic acid natural products by mining the genomes of 10,000 actinomycetes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 12175-12180.	7.1	168

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19	A New Subfamily of Polyphosphate Kinase 2 (Class III PPK2) Catalyzes both Nucleoside Monophosphate Phosphorylation and Nucleoside Diphosphate Phosphorylation. <i>Applied and Environmental Microbiology</i> , 2014, 80, 2602-2608.	3.1	88
20	Application of a phosphite dehydrogenase gene as a novel dominant selection marker for yeasts. <i>Journal of Biotechnology</i> , 2014, 182-183, 68-73.	3.8	36
21	Affinity purification of recombinant proteins using a novel silica-binding peptide as a fusion tag. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 5677-5684.	3.6	33
22	Stable polyphosphate accumulation by a pseudo-revertant of an <i>Escherichia coli</i> phoU mutant. <i>Biotechnology Letters</i> , 2013, 35, 695-701.	2.2	18
23	Turning Off Estrogen Receptor α -Mediated Transcription Requires Estrogen-Dependent Receptor Proteolysis. <i>Molecular and Cellular Biology</i> , 2013, 33, 473-474.	2.3	0
24	Molecular Engineering of a Fluorescent Bioprobe for Sensitive and Selective Detection of Amphibole Asbestos. <i>PLoS ONE</i> , 2013, 8, e76231.	2.5	6
25	Synthetic metabolic engineering-a novel, simple technology for designing a chimeric metabolic pathway. <i>Microbial Cell Factories</i> , 2012, 11, 120.	4.0	76
26	Construction of membrane-anchoring fusion protein of <i>Thermococcus kodakaraensis</i> glycerol kinase and its application to repetitive batchwise reactions. <i>Journal of Bioscience and Bioengineering</i> , 2012, 113, 521-525.	2.2	2
27	Isolation and characterization of a soluble and thermostable phosphite dehydrogenase from <i>Ralstonia</i> sp. strain 4506. <i>Journal of Bioscience and Bioengineering</i> , 2012, 113, 445-450.	2.2	25
28	Evaluation of Sensitivity of Fluorescence-Based Asbestos Detection by Correlative Microscopy. <i>Journal of Fluorescence</i> , 2012, 22, 357-363.	2.5	10
29	The silica-binding Si-tag functions as an affinity tag even under denaturing conditions. <i>Protein Expression and Purification</i> , 2011, 77, 173-177.	1.3	22
30	Overproduction of YjbB reduces the level of polyphosphate in <i>Escherichia coli</i> : a hypothetical role of YjbB in phosphate export and polyphosphate accumulation. <i>FEMS Microbiology Letters</i> , 2011, 320, 25-32.	1.8	29
31	Feasibility of thermophilic adenosine triphosphate-regeneration system using <i>Thermus thermophilus</i> polyphosphate kinase. <i>Process Biochemistry</i> , 2011, 46, 1747-1752.	3.7	31
32	Bacterial phosphate metabolism and its application to phosphorus recovery and industrial bioprocesses. <i>Journal of Bioscience and Bioengineering</i> , 2010, 109, 423-432.	2.2	112
33	Production of 2-deoxyribose 5-phosphate from fructose to demonstrate a potential of artificial bio-synthetic pathway using thermophilic enzymes. <i>Journal of Biotechnology</i> , 2010, 148, 204-207.	3.8	24
34	The Silicon Layer Supports Acid Resistance of <i>Bacillus cereus</i> Spores. <i>Journal of Bacteriology</i> , 2010, 192, 111-116.	2.2	28
35	Estrogen Inhibits Transforming Growth Factor β Signaling by Promoting Smad2/3 Degradation. <i>Journal of Biological Chemistry</i> , 2010, 285, 14747-14755.	3.4	132
36	Single-step affinity purification of recombinant proteins using the silica-binding Si-tag as a fusion partner. <i>Protein Expression and Purification</i> , 2010, 71, 91-95.	1.3	44

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37	Selective Detection of Airborne Asbestos Fibers Using Protein-Based Fluorescent Probes. <i>Environmental Science & Technology</i> , 2010, 44, 755-759.	10.0	18
38	The ubiquitin ligase CHIP acts as an upstream regulator of oncogenic pathways. <i>Nature Cell Biology</i> , 2009, 11, 312-319.	10.3	145
39	Continuous-flow ATP amplification system on a chip. <i>Sensors and Actuators B: Chemical</i> , 2009, 142, 118-122.	7.8	4
40	Oriented immobilization of antibodies on a silicon wafer using Si-tagged protein A. <i>Analytical Biochemistry</i> , 2009, 385, 132-137.	2.4	77
41	Reciprocating-flow ATP amplification system for increasing the number of amplification cycles. <i>Analytical Biochemistry</i> , 2009, 395, 161-165.	2.4	0
42	Detection of chrysotile asbestos by using a chrysotile-binding protein. <i>Biotechnology and Bioengineering</i> , 2008, 99, 285-289.	3.3	24
43	Identification and characterization of nucleoplasmin 3 as a histone-binding protein in embryonic stem cells. <i>Development Growth and Differentiation</i> , 2008, 50, 307-320.	1.5	19
44	Use of an <i>Escherichia coli</i> Recombinant Producing Thermostable Polyphosphate Kinase as an ATP Regenerator To Produce Fructose 1,6-Diphosphate. <i>Applied and Environmental Microbiology</i> , 2007, 73, 5676-5678.	3.1	51
45	Transcriptional Analysis of the Multicopy <i>hao</i> Gene Coding for Hydroxylamine Oxidoreductase in <i>Nitrosomonas</i> sp. Strain ENI-11. <i>Bioscience, Biotechnology and Biochemistry</i> , 2006, 70, 1875-1881.	1.3	9
46	Turning Off Estrogen Receptor β -Mediated Transcription Requires Estrogen-Dependent Receptor Proteolysis. <i>Molecular and Cellular Biology</i> , 2006, 26, 7966-7976.	2.3	57
47	Isolation and Characterization of <i>cbbL</i> and <i>cbbS</i> Genes Encoding Form I Ribulose-1,5-bisphosphate Carboxylase/Oxygenase Large and Small Subunits in <i>Nitrosomonas</i> sp. <i>Bioscience, Biotechnology and Biochemistry</i> , 2002, 66, 632-635.	1.3	5
48	Mutational Analysis of the Multicopy <i>hao</i> Gene Coding for Hydroxylamine Oxidoreductase in <i>Nitrosomonas</i> sp. Strain ENI-11. <i>Bioscience, Biotechnology and Biochemistry</i> , 2000, 64, 1754-1757.	1.3	7
49	Physical Map Location of the Multicopy Genes Coding for Ammonia Monooxygenase and Hydroxylamine Oxidoreductase in the Ammonia-Oxidizing Bacterium <i>Nitrosomonas</i> sp. Strain ENI-11. <i>Journal of Bacteriology</i> , 2000, 182, 825-828.	2.2	14
50	Isolation and Characterization of Two Cryptic Plasmids in the Ammonia-Oxidizing Bacterium <i>Nitrosomonas</i> sp. Strain ENI-11. <i>Journal of Bacteriology</i> , 1999, 181, 3375-3381.	2.2	25