

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	Discovery of phosphonic acid natural products by mining the genomes of 10,000 actinomycetes. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12175-12180.	7.1	168
2	The ubiquitin ligase CHIP acts as an upstream regulator of oncogenic pathways. Nature Cell Biology, 2009, 11, 312-319.	10.3	145
3	Estrogen Inhibits Transforming Growth Factor β^2 Signaling by Promoting Smad2/3 Degradation. Journal of Biological Chemistry, 2010, 285, 14747-14755.	3.4	132
4	Bacterial phosphate metabolism and its application to phosphorus recovery and industrial bioprocesses. Journal of Bioscience and Bioengineering, 2010, 109, 423-432.	2.2	112
5	A New Subfamily of Polyphosphate Kinase 2 (Class III PPK2) Catalyzes both Nucleoside Monophosphate Phosphorylation and Nucleoside Diphosphate Phosphorylation. Applied and Environmental Microbiology, 2014, 80, 2602-2608.	3.1	88
6	Oriented immobilization of antibodies on a silicon wafer using Si-tagged protein A. Analytical Biochemistry, 2009, 385, 132-137.	2.4	77
7	Synthetic metabolic engineering-a novel, simple technology for designing a chimeric metabolic pathway. Microbial Cell Factories, 2012, 11, 120.	4.0	76
8	Turning Off Estrogen Receptor β^2 -Mediated Transcription Requires Estrogen-Dependent Receptor Proteolysis. Molecular and Cellular Biology, 2006, 26, 7966-7976.	2.3	57
9	Use of an <i>Escherichia coli</i> Recombinant Producing Thermostable Polyphosphate Kinase as an ATP Regenerator To Produce Fructose 1,6-Diphosphate. Applied and Environmental Microbiology, 2007, 73, 5676-5678.	3.1	51
10	Single-step affinity purification of recombinant proteins using the silica-binding Si-tag as a fusion partner. Protein Expression and Purification, 2010, 71, 91-95.	1.3	44
11	A Novel Biocontainment Strategy Makes Bacterial Growth and Survival Dependent on Phosphite. Scientific Reports, 2017, 7, 44748.	3.3	42
12	Synthetic Phosphorus Metabolic Pathway for Biosafety and Contamination Management of Cyanobacterial Cultivation. ACS Synthetic Biology, 2018, 7, 2189-2198.	3.8	39
13	Application of a phosphite dehydrogenase gene as a novel dominant selection marker for yeasts. Journal of Biotechnology, 2014, 182-183, 68-73.	3.8	36
14	Affinity purification of recombinant proteins using a novel silica-binding peptide as a fusion tag. Applied Microbiology and Biotechnology, 2014, 98, 5677-5684.	3.6	33
15	Feasibility of thermophilic adenosine triphosphate-regeneration system using <i>Thermus thermophilus</i> polyphosphate kinase. Process Biochemistry, 2011, 46, 1747-1752.	3.7	31
16	Overproduction of YjbB reduces the level of polyphosphate in <i>Escherichia coli</i> : a hypothetical role of YjbB in phosphate export and polyphosphate accumulation. FEMS Microbiology Letters, 2011, 320, 25-32.	1.8	29
17	The Silicon Layer Supports Acid Resistance of <i>Bacillus cereus</i> Spores. Journal of Bacteriology, 2010, 192, 111-116.	2.2	28
18	Isolation and Characterization of Two Cryptic Plasmids in the Ammonia-Oxidizing Bacterium <i>Nitrosomonas</i> sp. Strain ENI-11. Journal of Bacteriology, 1999, 181, 3375-3381.	2.2	25

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19	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
20	Detection of chrysotile asbestos by using a chrysotile-binding protein. <i>Biotechnology and Bioengineering</i> , 2008, 99, 285-289.	3.3	24
21	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
22	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
23	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
24	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
25	Selective Detection of Airborne Asbestos Fibers Using Protein-Based Fluorescent Probes. <i>Environmental Science & Technology</i> , 2010, 44, 755-759.	10.0	18
26	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
27	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
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	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
30	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
31	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
32	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
33	Evaluation of Sensitivity of Fluorescence-Based Asbestos Detection by Correlative Microscopy. <i>Journal of Fluorescence</i> , 2012, 22, 357-363.	2.5	10
34	Transcriptional Analysis of the Multicopy 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
35	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
36	Mutational Analysis of the Multicopy 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

