

Satoshi Wakai

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56

papers

649

citations

15

h-index

23

g-index

58

ext. papers

755

ext. citations

3.8

avg, IF

3.94

L-index

#	Paper	IF	Citations
56	Involvement of sulfide:quinone oxidoreductase in sulfur oxidation of an acidophilic iron-oxidizing bacterium, <i>Acidithiobacillus ferrooxidans</i> NASF-1. <i>Bioscience, Biotechnology and Biochemistry</i> , 2004 , 68, 2519-28	2.1	54
55	Iron corrosion induced by nonhydrogenotrophic nitrate-reducing <i>Prolixibacter</i> sp. strain MIC1-1. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 1839-46	4.8	53
54	Future insights in fungal metabolic engineering. <i>Bioresource Technology</i> , 2017 , 245, 1314-1326	11	43
53	<i>Aspergillus oryzae</i> -based cell factory for direct kojic acid production from cellulose. <i>Microbial Cell Factories</i> , 2014 , 13, 71	6.4	36
52	Development of bio-based fine chemical production through synthetic bioengineering. <i>Microbial Cell Factories</i> , 2014 , 13, 173	6.4	33
51	An extracellular [NiFe] hydrogenase mediating iron corrosion is encoded in a genetically unstable genomic island in <i>Methanococcus maripaludis</i> . <i>Scientific Reports</i> , 2018 , 8, 15149	4.9	30
50	L-lactic acid production from starch by simultaneous saccharification and fermentation in a genetically engineered <i>Aspergillus oryzae</i> pure culture. <i>Bioresource Technology</i> , 2014 , 173, 376-383	11	29
49	Evaluation of the effects of different additives in improving the DNA extraction yield and quality from andosol. <i>Microbes and Environments</i> , 2008 , 23, 159-66	2.6	29
48	Diversity of 16S ribosomal DNA-defined bacterial population in acid rock drainage from Japanese pyrite mine. <i>Journal of Bioscience and Bioengineering</i> , 2005 , 100, 644-52	3.3	29
47	Purification and characterization of sulfide:quinone oxidoreductase from an acidophilic iron-oxidizing bacterium, <i>Acidithiobacillus ferrooxidans</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2007 , 71, 2735-42	2.1	24
46	From mannan to bioethanol: cell surface co-display of β mannanase and β mannosidase on yeast <i>Saccharomyces cerevisiae</i> . <i>Biotechnology for Biofuels</i> , 2016 , 9, 188	7.8	22
45	Corrosion of iron by iodide-oxidizing bacteria isolated from brine in an iodine production facility. <i>Microbial Ecology</i> , 2014 , 68, 519-27	4.4	21
44	Modified expression of multi-cellulases in a filamentous fungus <i>Aspergillus oryzae</i> . <i>Bioresource Technology</i> , 2019 , 276, 146-153	11	18
43	Direct and highly productive conversion of cyanobacteria to ethanol with CaCl addition. <i>Biotechnology for Biofuels</i> , 2018 , 11, 50	7.8	15
42	Correlation between the optimal growth pressures of four <i>Shewanella</i> species and the stabilities of their cytochromes c 5. <i>Extremophiles</i> , 2014 , 18, 617-27	3	15
41	Increased ethanol production from sweet sorghum juice concentrated by a membrane separation process. <i>Bioresource Technology</i> , 2014 , 169, 821-825	11	14
40	Comparative analysis of highly homologous <i>Shewanella</i> cytochromes c5 for stability and function. <i>Bioscience, Biotechnology and Biochemistry</i> , 2010 , 74, 1079-83	2.1	12

39	High thermal stability and unique trimer formation of cytochrome c from thermophilic <i>Hydrogenophilus thermoluteolus</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2013 , 77, 1677-81	2.1	11
38	Thiosulfate oxidation by a thermo-neutrophilic hydrogen-oxidizing bacterium, <i>Hydrogenobacter thermophilus</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2010 , 74, 892-4	2.1	11
37	Structural and functional insights into thermally stable cytochrome c from a thermophile. <i>Protein Science</i> , 2017 , 26, 737-748	6.3	10
36	Effective saccharification of kraft pulp by using a cellulase cocktail prepared from genetically engineered <i>Aspergillus oryzae</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2015 , 79, 1034-7	2.1	9
35	Heterologous synthesis of cytochrome c by <i>Escherichia coli</i> is not dependent on the System I cytochrome c biogenesis machinery. <i>FEBS Journal</i> , 2011 , 278, 2341-8	5.7	9
34	Commonly stabilized cytochromes c from deep-sea <i>Shewanella</i> and <i>Pseudomonas</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2018 , 1-8	2.1	8
33	Difference in NaCl tolerance of membrane-bound 5' nucleotidases purified from deep-sea and brackish water <i>Shewanella</i> species. <i>Extremophiles</i> , 2017 , 21, 357-368	3	8
32	Some properties of a novel obligately autotrophic iron-oxidizing bacterium isolated from seawater. <i>Hydrometallurgy</i> , 2001 , 59, 373-381	4	8
31	Biochemical and thermodynamic analyses of energy conversion in extremophiles. <i>Bioscience, Biotechnology and Biochemistry</i> , 2019 , 83, 49-64	2.1	8
30	Purification and biochemical characterization of the F1-ATPase from <i>Acidithiobacillus ferrooxidans</i> NASF-1 and analysis of the atp operon. <i>Bioscience, Biotechnology and Biochemistry</i> , 2005 , 69, 1884-91	2.1	7
29	Comparative study on stabilization mechanism of monomeric cytochrome c from deep-sea piezophilic <i>Shewanella violacea</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2016 , 80, 2365-2370	2.1	7
28	Stability of cytochromes c from psychrophilic and piezophilic <i>Shewanella</i> species: implications for complex multiple adaptation to low temperature and high hydrostatic pressure. <i>Extremophiles</i> , 2019 , 23, 239-248	3	6
27	Isolation of bacteria rapidly adhering to metal iron surface. <i>Materials Technology</i> , 2015 , 30, B38-B43	2.1	6
26	Oxidative phosphorylation in a thermophilic, facultative chemoautotroph, <i>Hydrogenophilus thermoluteolus</i> , living prevalently in geothermal niches. <i>Environmental Microbiology Reports</i> , 2013 , 5, 235-42	3.7	6
25	High stability of apo-cytochrome c from thermophilic <i>Hydrogenophilus thermoluteolus</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2014 , 78, 1191-4	2.1	6
24	Thermal stability of cytochrome c of pressure-sensitive <i>Shewanella livingstonensis</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2011 , 75, 1859-61	2.1	6
23	Pyruvate metabolism redirection for biological production of commodity chemicals in aerobic fungus <i>Aspergillus oryzae</i> . <i>Metabolic Engineering</i> , 2020 , 61, 225-237	9.7	5
22	Stabilization of mesophilic <i>Allochromatium vinosum</i> cytochrome c through specific mutations modeled by a thermophilic homologue. <i>Bioscience, Biotechnology and Biochemistry</i> , 2018 , 82, 304-311	2.1	5

21	Pseudomonas aeruginosa cytochrome c denaturation by five systematic urea derivatives that differ in the alkyl chain length. <i>Bioscience, Biotechnology and Biochemistry</i> , 2017 , 81, 1274-1278	2.1	4
20	Constant enthalpy change value during pyrophosphate hydrolysis within the physiological limits of NaCl. <i>Journal of Biological Chemistry</i> , 2013 , 288, 29247-51	5.4	4
19	Analysis of iron- and sulfur-oxidizing bacteria in a treatment plant of acid rock drainage from a Japanese pyrite mine by use of ribulose-1, 5-bisphosphate carboxylase/oxygenase large-subunit gene. <i>Journal of Bioscience and Bioengineering</i> , 2010 , 109, 244-8	3.3	4
18	Pyrophosphate hydrolysis in the extremely halophilic archaeon Haloarcula japonica is catalyzed by a single enzyme with a broad ionic strength range. <i>Extremophiles</i> , 2017 , 21, 471-477	3	3
17	Corrosion Test Using Bottom Water from Oil-storage Tank and Microbial Community Analysis by Next Generation Sequencer. <i>Zairyo To Kankyo/Corrosion Engineering</i> , 2015 , 64, 540-544	0.5	3
16	Iron Corrosion by Methane Producing Archaea (MPA) and Sulfate Reducing Bacteria (SRB) Utilizing Metallic Iron as an Electron Donor. <i>Zairyo To Kankyo/Corrosion Engineering</i> , 2011 , 60, 402-410	0.5	3
15	Iron Corrosion under the Enrichment Culture of Anaerobic Microorganisms Utilizing Metallic Iron as an Electron Donor. <i>Zairyo To Kankyo/Corrosion Engineering</i> , 2010 , 59, 298-304	0.5	2
14	Conferment of CO-Controlled Dimer/Monomer Transition Property to Thermostable Cytochrome c by Mutation in the Subunit/Subunit Interface. <i>Bulletin of the Chemical Society of Japan</i> , 2019 , 92, 702-709 ^{5.1}	5.1	2
13	Accelerated glucose metabolism in hyphae-dispersed Aspergillus oryzae is suitable for biological production. <i>Journal of Bioscience and Bioengineering</i> , 2021 , 132, 140-147	3.3	2
12	Differences in biochemical properties of two 5' nucleotidases from deep- and shallow-sea Shewanella species under various harsh conditions. <i>Bioscience, Biotechnology and Biochemistry</i> , 2019 , 83, 1085-1093	2.1	1
11	Metal Materials Suffer from Infectious Disease: Microbiologically Influenced Corrosion. <i>Kagaku To Seibutsu</i> , 2015 , 53, 515-520	0	1
10	Latest Knowledge of Electromicrobiology 2020 , 3-12		1
9	Electron Flow Rate in Microbiologically Influenced Corrosion and Its Applications 2020 , 193-205		1
8	Corrosion Test Using Bottom Water from Oil-storage Tank and Change of Microbial Community. <i>Zairyo To Kankyo/Corrosion Engineering</i> , 2013 , 62, 389-392	0.5	1
7	Thermal stability tuning without affecting gas-binding function of Thermochromatium tepidum cytochrome cT <i>Bioscience, Biotechnology and Biochemistry</i> , 2021 , 85, 1846-1852	2.1	1
6	Gene Analysis for the Evaluation of the Effect of Environmental Factors 2016 , 169-184		1
5	Why microbiologically influenced corrosion is issue?. <i>Zairyo To Kankyo/Corrosion Engineering</i> , 2021 , 70, 3-9	0.5	1
4	Thermal destabilization mechanism of cytochrome cT from psychrophilic Shewanella violacea. <i>Bioscience, Biotechnology and Biochemistry</i> , 2021 , 85, 1121-1127	2.1	1

3 Extremophilic Enzymes Related to Energy Conversion **2018**, 275-302

2 Microbiologically Influenced Corrosion **2020**, 145-157

1 A Task of Microbiologically Influenced Corrosion in Fukushima Daiichi Decommissioning. *Zairyo To Kankyo/Corrosion Engineering*, **2021**, 70, 491-496 0.5