Satoshi Wakai

List of Publications by Year in Descending Order

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	Thermal stability tuning without affecting gas-binding function of Thermochromatium tepidum cytochrome cT *Bioscience, Biotechnology and Biochemistry*, **2021**, 85, 1846-1852	2.1	1
55	Why microbiologically influenced corrosion is issue?. *Zairyo To Kankyo/ Corrosion Engineering*, **2021**, 70, 3-9	0.5	1
54	Thermal destabilization mechanism of cytochrome cTfrom psychrophilic Shewanella violacea. *Bioscience, Biotechnology and Biochemistry*, **2021**, 85, 1121-1127	2.1	1
53	Accelerated glucose metabolism in hyphae-dispersed Aspergillus oryzae is suitable for biological production. *Journal of Bioscience and Bioengineering*, **2021**, 132, 140-147	3.3	2
52	A Task of Microbiologically Influenced Corrosion in Fukushima Daiichi Decommissioning. *Zairyo To Kankyo/ Corrosion Engineering*, **2021**, 70, 491-496	0.5	
51	Pyruvate metabolism redirection for biological production of commodity chemicals in aerobic fungus Aspergillus oryzae. *Metabolic Engineering*, **2020**, 61, 225-237	9.7	5
50	Latest Knowledge of Electromicrobiology **2020**, 3-12		1
49	Microbiologically Influenced Corrosion **2020**, 145-157		
48	Electron Flow Rate in Microbiologically Influenced Corrosion and Its Applications **2020**, 193-205		1
47	Stability of cytochromes cTfrom psychrophilic and piezophilic Shewanella species: implications for complex multiple adaptation to low temperature and high hydrostatic pressure. *Extremophiles*, **2019**, 23, 239-248	3	6
46	Differences in biochemical properties of two 5Tnucleotidases from deep- and shallow-sea Shewanella species under various harsh conditions. *Bioscience, Biotechnology and Biochemistry*, **2019**, 83, 1085-1093	2.1	1
45	Biochemical and thermodynamic analyses of energy conversion in extremophiles. *Bioscience, Biotechnology and Biochemistry*, **2019**, 83, 49-64	2.1	8
44	Conferment of CO-Controlled DimerMonomer Transition Property to Thermostable Cytochromec? by Mutation in the SubunitSubunit Interface. *Bulletin of the Chemical Society of Japan*, **2019**, 92, 702-709	5.1	2
43	Modified expression of multi-cellulases in a filamentous fungus Aspergillus oryzae. *Bioresource Technology*, **2019**, 276, 146-153	11	18
42	Stabilization of mesophilic Allochromatium vinosum cytochrome cTthrough specific mutations modeled by a thermophilic homologue. *Bioscience, Biotechnology and Biochemistry*, **2018**, 82, 304-311	2.1	5
41	Direct and highly productive conversion of cyanobacteria to ethanol with CaCl addition. *Biotechnology for Biofuels*, **2018**, 11, 50	7.8	15
40	Commonly stabilized cytochromes c from deep-sea Shewanella and Pseudomonas. *Bioscience, Biotechnology and Biochemistry*, **2018**, 1-8	2.1	8

39	Extremophilic Enzymes Related to Energy Conversion **2018**, 275-302		
38	An extracellular [NiFe] hydrogenase mediating iron corrosion is encoded in a genetically unstable genomic island in Methanococcus maripaludis. *Scientific Reports*, **2018**, 8, 15149	4.9	30
37	Structural and functional insights into thermally stable cytochrome cTfrom a thermophile. *Protein Science*, **2017**, 26, 737-748	6.3	10
36	Pyrophosphate hydrolysis in the extremely halophilic archaeon Haloarcula japonica is catalyzed by a single enzyme with a broad ionic strength range. *Extremophiles*, **2017**, 21, 471-477	3	3
35	Future insights in fungal metabolic engineering. *Bioresource Technology*, **2017**, 245, 1314-1326	11	43
34	Pseudomonas aeruginosa cytochrome c denaturation by five systematic urea derivatives that differ in the alkyl chain length. *Bioscience, Biotechnology and Biochemistry*, **2017**, 81, 1274-1278	2.1	4
33	Difference in NaCl tolerance of membrane-bound 5Tnucleotidases purified from deep-sea and brackish water Shewanella species. *Extremophiles*, **2017**, 21, 357-368	3	8
32	Comparative study on stabilization mechanism of monomeric cytochrome c from deep-sea piezophilic Shewanella violacea. *Bioscience, Biotechnology and Biochemistry*, **2016**, 80, 2365-2370	2.1	7
31	Gene Analysis for the Evaluation of the Effect of Environmental Factors **2016**, 169-184		1
30	From mannan to bioethanol: cell surface co-display of Emannanase and Emannosidase on yeast Saccharomyces cerevisiae. *Biotechnology for Biofuels*, **2016**, 9, 188	7.8	22
29	Isolation of bacteria rapidly adhering to metal iron surface. *Materials Technology*, **2015**, 30, B38-B43	2.1	6
28	Effective saccharification of kraft pulp by using a cellulase cocktail prepared from genetically engineered Aspergillus oryzae. *Bioscience, Biotechnology and Biochemistry*, **2015**, 79, 1034-7	2.1	9
27	Metal Materials Suffer from Infectious Disease: Microbiologically Influenced Corrosion. *Kagaku To Seibutsu*, **2015**, 53, 515-520	0	1
26	Corrosion Test Using Bottom Water from Oil-storage Tank and Microbial Community Analysis by Next Generation Sequencer. *Zairyo To Kankyo/ Corrosion Engineering*, **2015**, 64, 540-544	0.5	3
25	Iron corrosion induced by nonhydrogenotrophic nitrate-reducing Prolixibacter sp. strain MIC1-1. *Applied and Environmental Microbiology*, **2015**, 81, 1839-46	4.8	53
24	Increased ethanol production from sweet sorghum juice concentrated by a membrane separation process. *Bioresource Technology*, **2014**, 169, 821-825	11	14
23	L-lactic acid production from starch by simultaneous saccharification and fermentation in a genetically engineered Aspergillus oryzae pure culture. *Bioresource Technology*, **2014**, 173, 376-383	11	29
22	Corrosion of iron by iodide-oxidizing bacteria isolated from brine in an iodine production facility. *Microbial Ecology*, **2014**, 68, 519-27	4.4	21

21	Aspergillus oryzae-based cell factory for direct kojic acid production from cellulose. *Microbial Cell Factories*, **2014**, 13, 71	6.4	36
20	Correlation between the optimal growth pressures of four Shewanella species and the stabilities of their cytochromes c 5. *Extremophiles*, **2014**, 18, 617-27	3	15
19	Development of bio-based fine chemical production through synthetic bioengineering. *Microbial Cell Factories*, **2014**, 13, 173	6.4	33
18	High stability of apo-cytochrome cTfrom thermophilic Hydrogenophilus thermoluteolus. *Bioscience, Biotechnology and Biochemistry*, **2014**, 78, 1191-4	2.1	6
17	Oxidative phosphorylation in a thermophilic, facultative chemoautotroph, Hydrogenophilus thermoluteolus, living prevalently in geothermal niches. *Environmental Microbiology Reports*, **2013**, 5, 235-42	3.7	6
16	High thermal stability and unique trimer formation of cytochrome cTfrom thermophilic Hydrogenophilus thermoluteolus. *Bioscience, Biotechnology and Biochemistry*, **2013**, 77, 1677-81	2.1	11
15	Constant enthalpy change value during pyrophosphate hydrolysis within the physiological limits of NaCl. *Journal of Biological Chemistry*, **2013**, 288, 29247-51	5.4	4
14	Corrosion Test Using Bottom Water from Oil-storage Tank and Change of Microbial Community. *Zairyo To Kankyo/ Corrosion Engineering*, **2013**, 62, 389-392	0.5	1
13	Heterologous synthesis of cytochrome cTby Escherichia coli is not dependent on the System I cytochrome c biogenesis machinery. *FEBS Journal*, **2011**, 278, 2341-8	5.7	9
12	Thermal stability of cytochrome c□bf pressure-sensitive Shewanella livingstonensis. *Bioscience, Biotechnology and Biochemistry*, **2011**, 75, 1859-61	2.1	6
11	Iron Corrosion by Methane Producing Archaea (MPA) and Sulfate Reducing Bacteria (SRB) Utilizing Metallic Iron as an Electron Donor. *Zairyo To Kankyo/ Corrosion Engineering*, **2011**, 60, 402-410	0.5	3
10	Thiosulfate oxidation by a thermo-neutrophilic hydrogen-oxidizing bacterium, Hydrogenobacter thermophilus. *Bioscience, Biotechnology and Biochemistry*, **2010**, 74, 892-4	2.1	11
9	Comparative analysis of highly homologous Shewanella cytochromes c5 for stability and function. *Bioscience, Biotechnology and Biochemistry*, **2010**, 74, 1079-83	2.1	12
8	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. *Journal of Bioscience and Bioengineering*, **2010**, 109, 244-8	3.3	4
7	Iron Corrosion under the Enrichment Culture of Anaerobic Microorganisms Utilizing Metallic Iron as an Electron Donor. *Zairyo To Kankyo/ Corrosion Engineering*, **2010**, 59, 298-304	0.5	2
6	Evaluation of the effects of different additives in improving the DNA extraction yield and quality from andosol. *Microbes and Environments*, **2008**, 23, 159-66	2.6	29
5	Purification and characterization of sulfide:quinone oxidoreductase from an acidophilic iron-oxidizing bacterium, Acidithiobacillus ferrooxidans. *Bioscience, Biotechnology and Biochemistry*, **2007**, 71, 2735-42	2.1	24
4	Purification and biochemical characterization of the F1-ATPase from Acidithiobacillus ferrooxidans NASF-1 and analysis of the atp operon. *Bioscience, Biotechnology and Biochemistry*, **2005**, 69, 1884-91	2.1	7

3	Diversity of 16S ribosomal DNA-defined bacterial population in acid rock drainage from Japanese pyrite mine. *Journal of Bioscience and Bioengineering*, **2005**, 100, 644-52	3.3	29
2	Involvement of sulfide:quinone oxidoreductase in sulfur oxidation of an acidophilic iron-oxidizing bacterium, Acidithiobacillus ferrooxidans NASF-1. *Bioscience, Biotechnology and Biochemistry*, **2004**, 68, 2519-28	2.1	54
1	Some properties of a novel obligately autotrophic iron-oxidizing bacterium isolated from seawater. *Hydrometallurgy*, **2001**, 59, 373-381	4	8