

Shunâ€ichi Ishii

List of Publications by Year in descending order

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37
papers

4,294
citations

172457

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330143

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38
docs citations

38
times ranked

4521
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrically conductive bacterial nanowires produced by <i>Shewanella oneidensis</i> strain MR-1 and other microorganisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 11358-11363.	7.1	1,629
2	Coaggregation Facilitates Interspecies Hydrogen Transfer between <i>Pelotomaculum thermopropionicum</i> and <i>Methanothermobacter thermautotrophicus</i> . <i>Applied and Environmental Microbiology</i> , 2005, 71, 7838-7845.	3.1	213
3	Comparison of Electrode Reduction Activities of <i>Geobacter sulfurreducens</i> and an Enriched Consortium in an Air-Cathode Microbial Fuel Cell. <i>Applied and Environmental Microbiology</i> , 2008, 74, 7348-7355.	3.1	192
4	A novel metatranscriptomic approach to identify gene expression dynamics during extracellular electron transfer. <i>Nature Communications</i> , 2013, 4, 1601.	12.8	162
5	Characterization of a filamentous biofilm community established in a cellulose-fed microbial fuel cell. <i>BMC Microbiology</i> , 2008, 8, 6.	3.3	156
6	Microbial population and functional dynamics associated with surface potential and carbon metabolism. <i>ISME Journal</i> , 2014, 8, 963-978.	9.8	140
7	Quantification of Electron Transfer Rates to a Solid Phase Electron Acceptor through the Stages of Biofilm Formation from Single Cells to Multicellular Communities. <i>Environmental Science & Technology</i> , 2010, 44, 2721-2727.	10.0	122
8	Microbial diversity in The Cedars, an ultrabasic, ultrareducing, and low salinity serpentinizing ecosystem. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 15336-15341.	7.1	119
9	The genome of <i>Pelotomaculum thermopropionicum</i> reveals niche-associated evolution in anaerobic microbiota. <i>Genome Research</i> , 2008, 18, 442-448.	5.5	117
10	Flagellum Mediates Symbiosis. <i>Science</i> , 2009, 323, 1574-1574.	12.6	116
11	Methanogenesis versus Electrogenesis: Morphological and Phylogenetic Comparisons of Microbial Communities. <i>Bioscience, Biotechnology and Biochemistry</i> , 2008, 72, 286-294.	1.3	112
12	Physiological and genomic features of highly alkaliphilic hydrogen-utilizing Betaproteobacteria from a continental serpentinizing site. <i>Nature Communications</i> , 2014, 5, 3900.	12.8	111
13	Functionally Stable and Phylogenetically Diverse Microbial Enrichments from Microbial Fuel Cells during Wastewater Treatment. <i>PLoS ONE</i> , 2012, 7, e30495.	2.5	96
14	Unusual metabolic diversity of hyperalkaliphilic microbial communities associated with subterranean serpentinization at The Cedars. <i>ISME Journal</i> , 2017, 11, 2584-2598.	9.8	95
15	Reconstruction and Regulation of the Central Catabolic Pathway in the Thermophilic Propionate-Oxidizing Syntroph <i>Pelotomaculum thermopropionicum</i> . <i>Journal of Bacteriology</i> , 2006, 188, 202-210.	2.2	80
16	Identifying the microbial communities and operational conditions for optimized wastewater treatment in microbial fuel cells. <i>Water Research</i> , 2013, 47, 7120-7130.	11.3	79
17	Two Morphological Types of Cell Appendages on a Strongly Adhesive Bacterium, <i>Acinetobacter</i> sp. Strain Tol 5. <i>Applied and Environmental Microbiology</i> , 2004, 70, 5026-5029.	3.1	73
18	Comparative metatranscriptomics reveals extracellular electron transfer pathways conferring microbial adaptivity to surface redox potential changes. <i>ISME Journal</i> , 2018, 12, 2844-2863.	9.8	68

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19	Simulating the Contribution of Coaggregation to Interspecies Hydrogen Fluxes in Syntrophic Methanogenic Consortia. <i>Applied and Environmental Microbiology</i> , 2006, 72, 5093-5096.	3.1	52
20	Isolation, Characterization and Application to Off-Gas Treatment of Toluene-Degrading Bacteria.. <i>Journal of Chemical Engineering of Japan</i> , 2001, 34, 1120-1126.	0.6	51
21	Population dynamics of electrogenic microbial communities in microbial fuel cells started with three different inoculum sources. <i>Bioelectrochemistry</i> , 2017, 117, 74-82.	4.6	51
22	Microbial metabolic networks in a complex electrogenic biofilm recovered from a stimulus-induced metatranscriptomics approach. <i>Scientific Reports</i> , 2015, 5, 14840.	3.3	44
23	Monolayer Adsorption of a "Bald" Mutant of the Highly Adhesive and Hydrophobic Bacterium <i>Acinetobacter</i> sp. Strain Tol 5 to a Hydrocarbon Surface. <i>Applied and Environmental Microbiology</i> , 2008, 74, 2511-2517.	3.1	40
24	Metagenomic insights into the ecology and physiology of microbes in bioelectrochemical systems. <i>Bioresource Technology</i> , 2018, 255, 302-307.	9.6	40
25	Functional and taxonomic dynamics of an electricity-consuming methane-producing microbial community. <i>Bioresource Technology</i> , 2015, 195, 254-264.	9.6	39
26	Non-autotrophic methanogens dominate in anaerobic digesters. <i>Scientific Reports</i> , 2017, 7, 1510.	3.3	39
27	Enhanced electrode-reducing rate during the enrichment process in an air-cathode microbial fuel cell. <i>Applied Microbiology and Biotechnology</i> , 2012, 94, 1087-1094.	3.6	33
28	The Effect of Membrane Type on the Performance of Microbial Electrosynthesis Cells for Methane Production. <i>Journal of the Electrochemical Society</i> , 2017, 164, H3015-H3023.	2.9	33
29	Genomic and in-situ Transcriptomic Characterization of the Candidate Phylum NPL-UPL2 From Highly Alkaline Highly Reducing Serpentinized Groundwater. <i>Frontiers in Microbiology</i> , 2018, 9, 3141.	3.5	31
30	Effect of Cell Appendages on the Adhesion Properties of a Highly Adhesive Bacterium, <i>Acinetobacter</i> sp. Tol 5. <i>Bioscience, Biotechnology and Biochemistry</i> , 2006, 70, 2635-2640.	1.3	29
31	Prospects for multi-omics in the microbial ecology of water engineering. <i>Water Research</i> , 2021, 205, 117608.	11.3	26
32	Microbial Fuel Cells and Microbial Ecology: Applications in Ruminant Health and Production Research. <i>Microbial Ecology</i> , 2010, 59, 415-427.	2.8	24
33	Behavior of filamentous cyanobacterium <i>Anabaena</i> spp. in water column and its cellular characteristics. <i>Biochemical Engineering Journal</i> , 2002, 10, 217-225.	3.6	23
34	Formation of filamentous appendages by <i>Acinetobacter</i> sp. Tol 5 for adhering to solid surfaces. <i>Journal of Bioscience and Bioengineering</i> , 2008, 105, 20-25.	2.2	23
35	<i>Serpentinimonas</i> gen. nov., <i>Serpentinimonas raichei</i> sp. nov., <i>Serpentinimonas barnesii</i> sp. nov. and <i>Serpentinimonas maccroroyi</i> sp. nov., hyperalkaliphilic and facultative autotrophic bacteria isolated from terrestrial serpentinizing springs. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2021, 71, .	1.7	20
36	Bioelectrochemical Stimulation of Electromethanogenesis at a Seawater-Based Subsurface Aquifer in a Natural Gas Field. <i>Frontiers in Energy Research</i> , 2019, 6, .	2.3	9

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37	Isolation and Polyphasic Characterization of <i>Desulfuromonas versatilis</i> sp. Nov., an Electrogenic Bacteria Capable of Versatile Metabolism Isolated from a Graphene Oxide-Reducing Enrichment Culture. <i>Microorganisms</i> , 2021, 9, 1953.	3.6	7