

Kazuhiko Miyanaga

List of Publications by Year in descending order

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52
papers

1,374
citations

304743

22
h-index

361022

35
g-index

53
all docs

53
docs citations

53
times ranked

1641
citing authors

#	ARTICLE	IF	CITATIONS
1	Therapeutic use of phage cocktail for controlling <i>Escherichia coli</i> O157:H7 in gastrointestinal tract of mice. <i>Journal of Bioscience and Bioengineering</i> , 2005, 100, 280-287.	2.2	169
2	Alteration of tail fiber protein gp38 enables T2 phage to infect <i>Escherichia coli</i> O157:H7. <i>Journal of Biotechnology</i> , 2005, 115, 101-107.	3.8	108
3	Succession of bacterial community and enzymatic activities of activated sludge by heat-treatment for reduction of excess sludge. <i>Biochemical Engineering Journal</i> , 2008, 39, 598-603.	3.6	88
4	<i>Escherichia coli</i> detection by GFP-labeled lysozyme-inactivated T4 bacteriophage. <i>Journal of Biotechnology</i> , 2004, 114, 11-20.	3.8	69
5	Detection of <i>Escherichia coli</i> with Fluorescent Labeled Phages That Have a Broad Host Range to <i>E. coli</i> in Sewage Water. <i>Biotechnology Progress</i> , 2008, 24, 481-486.	2.6	51
6	A Recombinant Bacteriophage-Based Assay for the Discriminative Detection of Culturable and Viable but Nonculturable <i>Escherichia coli</i> O157:H7. <i>Biotechnology Progress</i> , 2006, 22, 853-859.	2.6	48
7	Effect of heat-alkaline treatment as a pretreatment method on volatile fatty acid production and protein degradation in excess sludge, pure proteins and pure cultures. <i>Bioresource Technology</i> , 2012, 118, 390-398.	9.6	43
8	High anthocyanin accumulation in the dark by strawberry (<i>Fragaria ananassa</i>) callus. <i>Biotechnology Letters</i> , 1999, 21, 695-699.	2.2	41
9	Changes in composition and microbial communities in excess sludge after heat-alkaline treatment and acclimation. <i>Biochemical Engineering Journal</i> , 2010, 52, 151-159.	3.6	36
10	Diffusion properties of bacteriophages through agarose gel membrane. <i>Biotechnology Progress</i> , 2010, 26, 1213-1221.	2.6	35
11	Application of glutaraldehyde for the staining of esterase-active cells with carboxyfluorescein diacetate. <i>Biotechnology Letters</i> , 2004, 26, 379-383.	2.2	32
12	Biocidal effect of cathodic protection on bacterial viability in biofilm attached to carbon steel. <i>Biotechnology and Bioengineering</i> , 2007, 97, 850-857.	3.3	32
13	Removal of nitrogenous and carbonaceous substances by a porous carrier membrane hybrid process for wastewater treatment. <i>Biochemical Engineering Journal</i> , 2003, 14, 37-44.	3.6	31
14	Estimation of the self-purification capacity of biofilm formed in domestic sewer pipes. <i>Biochemical Engineering Journal</i> , 2006, 31, 96-101.	3.6	30
15	Effect of milk on antibacterial activity of tetracycline against <i>Escherichia coli</i> and <i>Staphylococcus aureus</i> isolated from bovine mastitis. <i>Applied Microbiology and Biotechnology</i> , 2009, 84, 135-142.	3.6	30
16	Seasonal variations in bacterial communities and antibiotic-resistant strains associated with green bottle flies (Diptera: Calliphoridae). <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 4197-4208.	3.6	30
17	Comparative analysis of bacterial community and antibiotic-resistant strains in different developmental stages of the housefly (<i>Musca domestica</i>). <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 1775-1783.	3.6	29
18	The presence of nitrate- and sulfate-reducing bacteria contributes to ineffectiveness souring control by nitrate injection. <i>International Biodeterioration and Biodegradation</i> , 2018, 129, 81-88.	3.9	28

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19	Separation of cultured strawberry cells producing anthocyanins in aqueous two-phase system. <i>Journal of Bioscience and Bioengineering</i> , 2005, 100, 449-454.	2.2	26
20	Spontaneous Deletion of a 209-Kilobase-Pair Fragment from the <i>Escherichia coli</i> Genome Occurs with Acquisition of Resistance to an Assortment of Infectious Phages. <i>Applied and Environmental Microbiology</i> , 2008, 74, 4256-4263.	3.1	25
21	Persistence of antibiotic-resistant and -sensitive <i>Proteus mirabilis</i> strains in the digestive tract of the housefly (<i>Musca domestica</i>) and green bottle flies (<i>Calliphoridae</i>). <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 8357-8366.	3.6	25
22	Optimization of distinction between viable and dead cells by fluorescent staining method and its application to bacterial consortia. <i>Biochemical Engineering Journal</i> , 2007, 37, 56-61.	3.6	24
23	Analysis of phage resistance in <i>Staphylococcus aureus</i> SA003 reveals different binding mechanisms for the closely related Twort-like phages Φ SA012 and Φ SA039. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 8963-8977.	3.6	24
24	Detection of <i>Escherichia coli</i> in the sewage influent by fluorescent labeled T4 phage. <i>Biochemical Engineering Journal</i> , 2006, 29, 119-124.	3.6	22
25	Effect of intermittent aeration on the decrease of biological sludge amount. <i>Biochemical Engineering Journal</i> , 2006, 27, 246-251.	3.6	22
26	Analysis of pigment accumulation heterogeneity in plant cell population by image-processing system. , 2000, 67, 493-497.		20
27	Diffusion of bacteriophages through artificial biofilm models. <i>Biotechnology Progress</i> , 2012, 28, 319-326.	2.6	20
28	Isolation, Characterisation and Complete Genome Sequence of a Tequatrovirus Phage, <i>Escherichia</i> phage KIT03, Which Simultaneously Infects <i>Escherichia coli</i> O157:H7 and <i>Salmonella enterica</i> . <i>Current Microbiology</i> , 2019, 76, 1130-1137.	2.2	20
29	Quantitative determination of cultured strawberry-cell heterogeneity by image analysis: effects of medium modification on anthocyanin accumulation. <i>Biochemical Engineering Journal</i> , 2000, 5, 201-207.	3.6	19
30	Augmentation of self-purification capacity of sewer pipe by immobilizing microbes on the pipe surface. <i>Biochemical Engineering Journal</i> , 2003, 15, 69-75.	3.6	19
31	Biological souring of crude oil under anaerobic conditions. <i>Biochemical Engineering Journal</i> , 2014, 90, 114-120.	3.6	17
32	Modification of T2 phage infectivity toward <i>Escherichia coli</i> O157:H7 via using CRISPR/Cas9. <i>FEMS Microbiology Letters</i> , 2019, 366, .	1.8	16
33	Iodine from bacterial iodide oxidization by <i>Roseovarius</i> spp. inhibits the growth of other bacteria. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 2173-2182.	3.6	15
34	The contribution of nitrate-reducing bacterium <i>Marinobacter</i> YB03 to biological souring and microbiologically influenced corrosion of carbon steel. <i>Biochemical Engineering Journal</i> , 2020, 156, 107520.	3.6	15
35	Monitoring of biofilm in cooling water system by measuring lactic acid consumption rate. <i>Biochemical Engineering Journal</i> , 2007, 35, 81-86.	3.6	13
36	Increased bioclogging and corrosion risk by sulfate addition during iodine recovery at a natural gas production plant. <i>Applied Microbiology and Biotechnology</i> , 2011, 89, 825-834.	3.6	12

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37	The utilization of aromatic hydrocarbon by nitrate- and sulfate-reducing bacteria in single and multiple nitrate injection for souring control. <i>Biochemical Engineering Journal</i> , 2019, 143, 75-80.	3.6	11
38	Analysis of pigmentation in individual cultured plant cells using an image processing system. <i>Biotechnology Letters</i> , 2000, 22, 977-981.	2.2	9
39	Microbial and Chemical Characterizations of Oil Field Water through Artificial Souring Experiment. <i>Journal of Chemical Engineering of Japan</i> , 2010, 43, 792-797.	0.6	9
40	IgG-dependent aggregation of <i>Staphylococcus aureus</i> inhibits bacteriophage attack. <i>Biochemical Engineering Journal</i> , 2015, 97, 17-24.	3.6	9
41	A kinetic model for growth of callus derived from <i>Eucommia ulmoides</i> aiming at mass production of a factor enhancing collagen synthesis of animal cells. <i>Mathematics and Computers in Simulation</i> , 2001, 56, 463-474.	4.4	7
42	Nitrogenous compounds transformation by the sludge solubilization under alternating aerobic and anaerobic conditions. <i>Biochemical Engineering Journal</i> , 2004, 21, 207-212.	3.6	7
43	Surface activity of heat-treated alkaline treated excess sludge. <i>Biochemical Engineering Journal</i> , 2011, 56, 241-246.	3.6	7
44	Comprehensive Phylogenetic Diversity of [FeFe]-Hydrogenase Genes in Termite Gut Microbiota. <i>Microbes and Environments</i> , 2013, 28, 491-494.	1.6	7
45	Occurrence of virulence genes associated with enterohemorrhagic <i>Escherichia coli</i> in raw municipal sewage. <i>Biochemical Engineering Journal</i> , 2007, 33, 53-59.	3.6	6
46	Reduction of Excess Sludge and Simultaneous Removal of Organic Carbon and Nitrogen by the Porous Carrier and Membrane Hybrid System. <i>Journal of Chemical Engineering of Japan</i> , 2003, 36, 1156-1162.	0.6	4
47	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.	0.2	3
48	Quick Selection of a Chimeric T2 Phage That Displays Active Enzyme on the Viral Capsid. <i>Biotechnology Progress</i> , 2005, 21, 1768-1771.	2.6	2
49	Fate of <i>Escherichia coli</i> in dialysis device exposed into sewage influent and activated sludge. <i>Journal of Water and Health</i> , 2018, 16, 380-390.	2.6	2
50	Aggregate characteristics of callus derived from woody plant <i>Eucommia ulmoides</i> . <i>Biochemical Engineering Journal</i> , 2004, 21, 149-153.	3.6	1
51	Addition of Sodium Hydroxide to Seawater Inhibits Sulfide Production (Souring) by Microbes in Oil Field Water. <i>Journal of Chemical Engineering of Japan</i> , 2017, 50, 850-856.	0.6	1
52	Investigation of Hydrogen Sulfide Production in a Polluted Estuary by Using a Vertical Column Simulator. <i>Journal of Chemical Engineering of Japan</i> , 2013, 46, 359-366.	0.6	0