

Toshinari Maeda

List of Publications by Year in descending order

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115
papers

3,805
citations

126708

33
h-index

143772

57
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118
all docs

118
docs citations

118
times ranked

4100
citing authors

#	ARTICLE	IF	CITATIONS
1	Cu ₂ O/TiO ₂ decorated on cellulose nanofiber/reduced graphene hydrogel for enhanced photocatalytic activity and its antibacterial applications. <i>Chemosphere</i> , 2022, 286, 131731.	4.2	57
2	Advancement of Metatranscriptomics towards Productive Agriculture and Sustainable Environment: A Review. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3737.	1.8	9
3	Effect of sodium tungstate on anaerobic digestion of waste sewage sludge: Enhanced methane production via increased acetoclastic methanogens. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107524.	3.3	6
4	Impact of 5-fluorouracil on anaerobic digestion using sewage sludge. <i>Chemosphere</i> , 2022, 298, 134253.	4.2	2
5	Effect of different concentrations of sodium selenite on anaerobic digestion of waste sewage sludge. <i>Environmental Technology and Innovation</i> , 2022, 27, 102403.	3.0	6
6	Effect of Sodium Tungstate on Nucleic Acid Extraction from Anaerobic Digestion Sludge –Efficacy of Fluorescence Measurement in the Ribonucleic Acid Quantification–. <i>Bunseki Kagaku</i> , 2022, 71, 201-206.	0.1	0
7	Influence of Trifluoroacetic Acid Addition on Reversed Phase HPLC Analysis of Oligo(lactic acid). <i>Bunseki Kagaku</i> , 2022, 71, 197-200.	0.1	0
8	Editorial: Molecular Engineering of Sensory Mechanisms in Bacteria for Biosensing Technologies and Novel Tools for Microbial Engineering. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 894553.	2.0	0
9	Quorum quenching of autoinducer 2 increases methane production in anaerobic digestion of waste activated sludge. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 4763-4774.	1.7	3
10	Microbial Community Structures and Methanogenic Functions in Wetland Peat Soils. <i>Microbes and Environments</i> , 2022, 37, n/a.	0.7	4
11	Evaluation of hydrogen metabolism by <i>Escherichia coli</i> strains possessing only a single hydrogenase in the genome. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 1728-1739.	3.8	6
12	Enrichment of waste sewage sludge for enhancing methane production from cellulose. <i>Bioresource Technology</i> , 2021, 321, 124497.	4.8	19
13	Design, Synthesis and Antibacterial Studies of Novel Cationic Amphipathic Cyclic Undecapeptides and Their Linear Counterparts against Virulent Bacterial Strains. <i>Scientia Pharmaceutica</i> , 2021, 89, 10.	0.7	4
14	Antibacterial Chitosan Nanofiber Thin Films with Bacitracin Zinc Salt. <i>Polymers</i> , 2021, 13, 1104.	2.0	6
15	Iron limitation by transferrin promotes simultaneous cheating of pyoverdine and exoprotease in <i>Pseudomonas aeruginosa</i> . <i>ISME Journal</i> , 2021, 15, 2379-2389.	4.4	12
16	Preparation of bioactive and antibacterial PMMA-based bone cement by modification with quaternary ammonium and alkoxy silane. <i>Journal of Biomaterials Applications</i> , 2021, 36, 311-320.	1.2	7
17	Diluted Luria-Bertani medium vs. sewage sludge as growth media: comparison of community structure and diversity in the culturable bacteria. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 3787-3798.	1.7	9
18	Antibacterial properties of phenothiazine derivatives against multidrug-resistant <i>Acinetobacter baumannii</i> strains. <i>Journal of Applied Microbiology</i> , 2021, 131, 2235-2243.	1.4	6

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19	Bacterial Resistance against Heavy Metals in <i>Pseudomonas aeruginosa</i> RW9 Involving Hexavalent Chromium Removal. <i>Sustainability</i> , 2021, 13, 9797.	1.6	17
20	Survivability of Alcaligenaceae and Chromatiaceae as palm oil mill effluent pollution bioindicators under fluctuations of temperature, pH and total suspended solid. <i>Journal of Bioscience and Bioengineering</i> , 2021, 132, 174-182.	1.1	2
21	Quinolone Signals Related to <i>Pseudomonas</i> Quinolone Signal-Quorum Sensing Inhibits the Predatory Activity of <i>Bdellovibrio bacteriovorus</i> . <i>Frontiers in Microbiology</i> , 2021, 12, 722579.	1.5	2
22	Engineering anaerobic digestion via optimizing microbial community: effects of bactericidal agents, quorum sensing inhibitors, and inorganic materials. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 7607-7618.	1.7	8
23	Microbial community dynamics and electricity generation in MFCs inoculated with POME sludges and pure electrogenic culture. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 36903-36916.	3.8	14
24	Bioenergy from dairy manure: technologies, challenges and opportunities. <i>Science of the Total Environment</i> , 2021, 790, 148199.	3.9	23
25	Assessing the anti-microbial activity of cyclic peptide immobilized on reduced graphene oxide. <i>Materials Letters</i> , 2021, 304, 130621.	1.3	10
26	Zero-Emission of Palm Oil Mill Effluent Final Discharge Promoted Bacterial Biodiversity Rebound in the Receiving Water System. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 10814.	1.3	2
27	A Novel Archaeal Lineage in Boiling Hot Springs around Oyasukyo Gorge (Akita, Japan). <i>Microbes and Environments</i> , 2021, 36, n/a.	0.7	1
28	Toxicity identification and evaluation of palm oil mill effluent and its effects on the planktonic crustacean <i>Daphnia magna</i> . <i>Science of the Total Environment</i> , 2020, 710, 136277.	3.9	16
29	Characterization of gallium resistance induced in a <i>Pseudomonas aeruginosa</i> cystic fibrosis isolate. <i>Archives of Microbiology</i> , 2020, 202, 617-622.	1.0	17
30	Effect of Calcium Acetate Content on Apatite-Forming Ability and Mechanical Property of PMMA Bone Cement Modified with Quaternary Ammonium. <i>Materials</i> , 2020, 13, 4998.	1.3	6
31	A Review of Current and Emerging Approaches for Water Pollution Monitoring. <i>Water (Switzerland)</i> , 2020, 12, 3417.	1.2	22
32	Mechanism of carbon partitioning towards starch and triacylglycerol in <i>Chlorella vulgaris</i> under nitrogen stress through whole-transcriptome analysis. <i>Biomass and Bioenergy</i> , 2020, 138, 105600.	2.9	31
33	Microalgae-bacteria interaction in palm oil mill effluent treatment. <i>Journal of Water Process Engineering</i> , 2020, 35, 101203.	2.6	37
34	Alcaligenaceae and Chromatiaceae as pollution bacterial bioindicators in palm oil mill effluent (POME) final discharge polluted rivers. <i>Ecological Indicators</i> , 2020, 111, 106048.	2.6	8
35	Biochar enhanced the nitrifying and denitrifying bacterial communities during the composting of poultry manure and rice straw. <i>Waste Management</i> , 2020, 106, 240-249.	3.7	117
36	Effect of Aso limonite on anaerobic digestion of waste sewage sludge. <i>AMB Express</i> , 2020, 10, 74.	1.4	11

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37	Dark Fermentative Biohydrogen Production from Palm oil Mill Effluent: Operation Factors and Future Progress of Biohydrogen Energy. <i>Pertanika Journal of Science and Technology</i> , 2020, 28, .	0.3	1
38	Fate of <i>Escherichia coli</i> O157 Spiked into Commercially Available Fermented Soybean Paste (miso). <i>Journal of the Japanese Society for Food Science and Technology</i> , 2020, 67, 376-383.	0.1	0
39	Cytocompatible and Antibacterial Properties of Chitosan-Siloxane Hybrid Spheres. <i>Polymers</i> , 2019, 11, 1676.	2.0	3
40	Seeding Public Goods Is Essential for Maintaining Cooperation in <i>Pseudomonas aeruginosa</i> . <i>Frontiers in Microbiology</i> , 2019, 10, 2322.	1.5	8
41	Pseudogene YdfW in <i>Escherichia coli</i> decreases hydrogen production through nitrate respiration pathways. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 16212-16223.	3.8	4
42	Dynamics of Microbial Populations Responsible for Biodegradation during the Full-Scale Treatment of Palm Oil Mill Effluent. <i>Microbes and Environments</i> , 2019, 34, 121-128.	0.7	15
43	Endolithic Microbial Habitats Hosted in Carbonate Nodules Currently Forming within Sediment at a High Methane Flux Site in the Sea of Japan. <i>Geosciences (Switzerland)</i> , 2019, 9, 463.	1.0	13
44	AiiM Lactonase Strongly Reduces Quorum Sensing Controlled Virulence Factors in Clinical Strains of <i>Pseudomonas aeruginosa</i> Isolated From Burned Patients. <i>Frontiers in Microbiology</i> , 2019, 10, 2657.	1.5	19
45	Quorum sensing between Gram-negative bacteria responsible for methane production in a complex waste sewage sludge consortium. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 1485-1495.	1.7	32
46	Current state and perspectives in hydrogen production by <i>Escherichia coli</i> : roles of hydrogenases in glucose or glycerol metabolism. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 2041-2050.	1.7	26
47	Enhanced phagocytosis of <i>Aggregatibacter actinomycetemcomitans</i> cells by macrophages activated by a probiotic <i>Lactobacillus</i> strain. <i>Journal of Dairy Science</i> , 2018, 101, 5789-5798.	1.4	19
48	Improvement of (R,R)-2,3-butanediol production from corn stover hydrolysate by cell recycling continuous fermentation. <i>Chemical Engineering Journal</i> , 2018, 332, 361-369.	6.6	22
49	Shift of low to high nucleic acid bacteria as a potential bioindicator for the screening of anthropogenic effects in a receiving river due to palm oil mill effluent final discharge. <i>Ecological Indicators</i> , 2018, 85, 79-84.	2.6	20
50	Pseudogene product YqiG is important for pflB expression and biohydrogen production in <i>Escherichia coli</i> BW25113. <i>3 Biotech</i> , 2018, 8, 435.	1.1	1
51	Electron carriers increase electricity production in methane microbial fuel cells that reverse methanogenesis. <i>Biotechnology for Biofuels</i> , 2018, 11, 211.	6.2	30
52	Pyocyanin Restricts Social Cheating in <i>Pseudomonas aeruginosa</i> . <i>Frontiers in Microbiology</i> , 2018, 9, 1348.	1.5	59
53	Seeking key microorganisms for enhancing methane production in anaerobic digestion of waste sewage sludge. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 5323-5334.	1.7	34
54	Alcaligenaceae and Chromatiaceae as reliable bioindicators present in palm oil mill effluent final discharge treated by different biotreatment processes. <i>Ecological Indicators</i> , 2018, 95, 468-473.	2.6	10

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55	Bacterial community shift revealed Chromatiaceae and Alcaligenaceae as potential bioindicators in the receiving river due to palm oil mill effluent final discharge. <i>Ecological Indicators</i> , 2017, 82, 526-529.	2.6	18
56	Inhibition of methane production by the palm oil industrial waste phospholine gum in a mimic enteric fermentation. <i>Journal of Cleaner Production</i> , 2017, 165, 621-629.	4.6	14
57	Enhanced fuel ethanol production from rice straw hydrolysate by an inhibitor-tolerant mutant strain of <i>Scheffersomyces stipitis</i> . <i>RSC Advances</i> , 2017, 7, 31180-31188.	1.7	13
58	Selection of Functional Quorum Sensing Systems by Lysogenic Bacteriophages in <i>Pseudomonas aeruginosa</i> . <i>Frontiers in Microbiology</i> , 2017, 8, 1669.	1.5	30
59	Oceans as bioenergy pools for methane production using activated methanogens in waste sewage sludge. <i>Applied Energy</i> , 2017, 202, 399-407.	5.1	5
60	Exploiting Quorum Sensing Inhibition for the Control of <i>Pseudomonas aeruginosa</i> and <i>Acinetobacter baumannii</i> Biofilms. <i>Current Topics in Medicinal Chemistry</i> , 2017, 17, 1915-1927.	1.0	30
61	Impact of different antibiotics on methane production using waste-activated sludge: mechanisms and microbial community dynamics. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 9355-9364.	1.7	48
62	Biofilm formation of periodontal pathogens on hydroxyapatite surfaces: Implications for periodontium damage. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 2873-2880.	2.1	17
63	Structural chromosome aberrations cause swelling of the nucleus. <i>Genes and Environment</i> , 2016, 38, 22.	0.9	7
64	Can resistance against quorum-sensing interference be selected?. <i>ISME Journal</i> , 2016, 10, 4-10.	4.4	80
65	Mature Biofilm Degradation by Potential Probiotics: <i>Aggregatibacter actinomycetemcomitans</i> versus <i>Lactobacillus</i> spp.. <i>PLoS ONE</i> , 2016, 11, e0159466.	1.1	39
66	The prevalence of foodborne pathogenic bacteria on cutting boards and their ecological correlation with background biota. <i>AIMS Microbiology</i> , 2016, 2, 138-151.	1.0	1
67	Role of quorum sensing in bacterial infections. <i>World Journal of Clinical Cases</i> , 2015, 3, 575.	0.3	168
68	Pyrosequencing analysis of microbial community and food-borne bacteria on restaurant cutting boards collected in Seri Kembangan, Malaysia, and their correlation with grades of food premises. <i>International Journal of Food Microbiology</i> , 2015, 200, 57-65.	2.1	16
69	Beneficial knockouts in <i>Escherichia coli</i> for producing hydrogen from glycerol. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 2573-2581.	1.7	14
70	CO ₂ sequestration by methanogens in activated sludge for methane production. <i>Applied Energy</i> , 2015, 142, 426-434.	5.1	58
71	High variability in quorum quenching and growth inhibition by furanone C-30 in <i>Pseudomonas aeruginosa</i> clinical isolates from cystic fibrosis patients. <i>Pathogens and Disease</i> , 2015, 73, ftv040.	0.8	57
72	Quorum sensing enhancement of the stress response promotes resistance to quorum quenching and prevents social cheating. <i>ISME Journal</i> , 2015, 9, 115-125.	4.4	161

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73	Gallium induces the production of virulence factors in <i>Pseudomonas aeruginosa</i> . Pathogens and Disease, 2014, 70, 95-98.	0.8	47
74	Metabolic engineering of <i>Escherichia coli</i> to enhance hydrogen production from glycerol. Applied Microbiology and Biotechnology, 2014, 98, 4757-4770.	1.7	55
75	A rapid colorimetric screening method for vanillic acid and vanillin-producing bacterial strains. Journal of Applied Microbiology, 2014, 116, 903-910.	1.4	17
76	Enhancement of sludge reduction and methane production by removing extracellular polymeric substances from waste activated sludge. Chemosphere, 2014, 117, 552-558.	4.2	34
77	Enhanced reduction of waste activated sludge at a low temperature by locally isolated strains <i>Pseudomonas</i> sp. VNT and <i>Aeromonas</i> sp. VNT. Bioresource Technology, 2014, 174, 134-141.	4.8	19
78	Open fermentative production of L-lactic acid with high optical purity by thermophilic <i>Bacillus coagulans</i> using excess sludge as nutrient. Bioresource Technology, 2014, 151, 28-35.	4.8	85
79	Effect of azithromycin on enhancement of methane production from waste activated sludge. Journal of Industrial Microbiology and Biotechnology, 2014, 41, 1051-1059.	1.4	16
80	Improvement of Cyclodextrin Glycosyltransferase Gene Expression in <i>Escherichia coli</i> by Insertion of Regulatory Sequences Involved in the Promotion of RNA Transcription. Molecular Biotechnology, 2013, 54, 961-968.	1.3	6
81	Isolation and characterization of gallium resistant <i>Pseudomonas aeruginosa</i> mutants. International Journal of Medical Microbiology, 2013, 303, 574-582.	1.5	57
82	Four products from <i>Escherichia coli</i> pseudogenes increase hydrogen production. Biochemical and Biophysical Research Communications, 2013, 439, 576-579.	1.0	9
83	Resistance to Quorum-Quenching Compounds. Applied and Environmental Microbiology, 2013, 79, 6840-6846.	1.4	108
84	Real-time PCR for rapidly detecting aniline-degrading bacteria in activated sludge. Chemosphere, 2013, 91, 1338-1343.	4.2	10
85	Influence of <i>Escherichia coli</i> hydrogenases on hydrogen fermentation from glycerol. International Journal of Hydrogen Energy, 2013, 38, 3905-3912.	3.8	35
86	Influence of pretreated activated sludge for electricity generation in microbial fuel cell application. Bioresource Technology, 2013, 145, 90-96.	4.8	136
87	Biohydrogen production from oil palm frond juice and sewage sludge by a metabolically engineered <i>Escherichia coli</i> strain. International Journal of Hydrogen Energy, 2013, 38, 10277-10283.	3.8	37
88	Resistance to the quorum-quenching compounds brominated furanone C-30 and 5-fluorouracil in <i>Pseudomonas aeruginosa</i> clinical isolates. Pathogens and Disease, 2013, 68, 8-11.	0.8	93
89	Bioconversion of glycerol for bioethanol production using isolated <i>Escherichia coli</i> SS1. Brazilian Journal of Microbiology, 2012, 43, 506-516.	0.8	34
90	Uncharacterized <i>Escherichia coli</i> proteins YdjA and YhjY are related to biohydrogen production. International Journal of Hydrogen Energy, 2012, 37, 17778-17787.	3.8	28

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91	Quorum quenching quandary: resistance to antivirulence compounds. ISME Journal, 2012, 6, 493-501.	4.4	254
92	Hydrogen production by recombinant <i>Escherichia coli</i> strains. Microbial Biotechnology, 2012, 5, 214-225.	2.0	62
93	Microbial Degradation of 2,4,6-Trinitrotoluene: Application to Explosives Sensor. Environmental Science and Engineering, 2012, , 213-233.	0.1	1
94	Purification and characterization of a serine protease secreted by <i>Brevibacillus</i> sp. KH3 for reducing waste activated sludge and biofilm formation. Bioresource Technology, 2011, 102, 10650-10656.	4.8	38
95	Global regulator H-NS and lipoprotein NlpI influence production of extracellular DNA in <i>Escherichia coli</i> . Biochemical and Biophysical Research Communications, 2010, 401, 197-202.	1.0	26
96	Isolation, identification of sludge-lysing strain and its utilization in thermophilic aerobic digestion for waste activated sludge. Bioresource Technology, 2009, 100, 2475-2481.	4.8	78
97	Enhanced production of lactic acid with reducing excess sludge by lactate fermentation. Journal of Hazardous Materials, 2009, 168, 656-663.	6.5	36
98	Protein Engineering of the Transcriptional Activator FhlA To Enhance Hydrogen Production in <i>Escherichia coli</i> . Applied and Environmental Microbiology, 2009, 75, 5639-5646.	1.4	39
99	Reconfiguring the Quorum-Sensing Regulator SdiA of <i>Escherichia coli</i> To Control Biofilm Formation via Indole and <i>N</i> -Acylhomoserine Lactones. Applied and Environmental Microbiology, 2009, 75, 1703-1716.	1.4	106
100	Formate detection by potassium permanganate for enhanced hydrogen production in <i>Escherichia coli</i> . International Journal of Hydrogen Energy, 2008, 33, 2409-2412.	3.8	42
101	TNT biodegradation and production of dihydroxylamino-nitrotoluene by aerobic TNT degrader <i>Pseudomonas</i> sp. strain TM15 in an anoxic environment. Biodegradation, 2008, 19, 795-805.	1.5	14
102	Protein engineering of hydrogenase 3 to enhance hydrogen production. Applied Microbiology and Biotechnology, 2008, 79, 77-86.	1.7	52
103	Metabolic engineering to enhance bacterial hydrogen production. Microbial Biotechnology, 2008, 1, 30-39.	2.0	146
104	Metabolically engineered bacteria for producing hydrogen via fermentation. Microbial Biotechnology, 2008, 1, 107-125.	2.0	126
105	Identification of Spontaneous Conversion Products of Unstable 2,4,6-Trinitrotoluene Metabolites, Hydroxylamino-dinitrotoluenes, by Combination of Thin-Layer Chromatography and Laser Time-of-Flight Mass Spectrometry. Journal of Chromatographic Science, 2007, 45, 345-349.	0.7	5
106	Inhibition of hydrogen uptake in <i>Escherichia coli</i> by expressing the hydrogenase from the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. BMC Biotechnology, 2007, 7, 25.	1.7	56
107	RELATIONSHIP BETWEEN MUTAGENICITY AND REACTIVITY OR BIODEGRADABILITY FOR NITROAROMATIC COMPOUNDS. Environmental Toxicology and Chemistry, 2007, 26, 237.	2.2	26
108	<i>Escherichia coli</i> hydrogenase 3 is a reversible enzyme possessing hydrogen uptake and synthesis activities. Applied Microbiology and Biotechnology, 2007, 76, 1035-1042.	1.7	90

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109	Enhanced hydrogen production from glucose by metabolically engineered <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , 2007, 77, 879-890.	1.7	151
110	Crucial problem in rapid spectrophotometric determination of 2,4,6-trinitrotoluene and its breakthrough method. <i>Journal of Microbiological Methods</i> , 2006, 66, 568-571.	0.7	2
111	One-Step Isolation and Identification of Hydroxylamino-Dinitrotoluenes, Unstable Products from 2,4,6-Trinitrotoluene Metabolites, with Thin-Layer Chromatography and Laser Time-of-Flight Mass Spectrometry. <i>Journal of Chromatographic Science</i> , 2006, 44, 96-100.	0.7	13
112	Regulation of homologous integration in yeast by the DNA repair proteins Ku70 and RecQ. <i>Molecular Genetics and Genomics</i> , 2005, 273, 167-176.	1.0	19
113	Screening of TNT-biodegradable Bacteria in Soils Polluted by 2,4,6-Trinitrotoluene. <i>Journal of Environmental Chemistry</i> , 2003, 13, 695-704.	0.1	3
114	Triple knockout of <i>frdC</i> , <i>gltA</i> and <i>pta</i> genes enhanced pHA production in <i>Escherichia coli</i> . <i>Asia-Pacific Journal of Molecular Biology and Biotechnology</i> , 0, , 11-18.	0.2	0
115	A simple approach for random genomic insertion-deletions using ambiguous sequences in <i>Escherichia coli</i> . <i>Journal of Basic Microbiology</i> , 0, , .	1.8	1