Isamu Maeda

List of Publications by Year in descending order

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65	987	430874	501196
papers	citations	18 h-index	28 g-index

66	66	66	1051
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Potential of Phototrophic Purple Nonsulfur Bacteria to Fix Nitrogen in Rice Fields. Microorganisms, 2022, 10, 28.	3.6	15
2	Utilizing Cattle Manure Compost Increases Ammonia Monooxygenase A Gene Expression and Ammonia-oxidizing Activity of Both Bacteria and Archaea in Biofiltration Media for Ammonia Deodorization. Microbes and Environments, 2021, 36, n/a.	1.6	4
3	Biosyntheses of geranic acid and citronellic acid from monoterpene alcohols by Saccharomyces cerevisiae. Bioscience, Biotechnology and Biochemistry, 2021, 85, 1530-1535.	1.3	6
4	The Growth of Leaf Lettuce and Bacterial Communities in a Closed Aquaponics System with Catfish. Horticulturae, 2021, 7, 222.	2.8	6
5	Linoleic acid, Î±-linolenic acid, and monolinolenins as antibacterial substances in the heat-processed soybean fermented withRhizopus oligosporus. Bioscience, Biotechnology and Biochemistry, 2020, 84, 1285-1290.	1.3	31
6	Nitrogen fixation in Rhodopseudomonas palustris co-cultured with Bacillus subtilis in the presence of air. Journal of Bioscience and Bioengineering, 2019, 127, 589-593.	2.2	23
7	Evaluating of quality of rice bran protein concentrate prepared by a combination of isoelectronic precipitation and electrolyzed water treatment. LWT - Food Science and Technology, 2019, 99, 262-267.	5.2	19
8	Extracellular protease derived from lactic acid bacteria stimulates the fermentative lactic acid production from the by-products of rice as a biomass refinery function. Journal of Bioscience and Bioengineering, 2017, 123, 245-251.	2.2	14
9	Effect of increased feeding of dietary Î±â€linolenic acid by grazing on formation of the cis9,trans11â€“18:2 isoform of conjugated linoleic acid in bovine milk. Animal Science Journal, 2017, 88, 1006-1011.	1.4	6
10	Light-enhanced bioaccumulation of molybdenum by nitrogen-deprived recombinant anoxygenic photosynthetic bacterium Rhodopseudomonas palustris. Bioscience, Biotechnology and Biochemistry, 2016, 80, 407-413.	1.3	5
11	Evaluation of bacterial communities by bacteriome analysis targeting 16S rRNA genes and quantitative analysis of ammonia monooxygenase gene in different types of compost. Journal of Bioscience and Bioengineering, 2016, 121, 57-65.	2.2	22
12	Mercury (II) sensor based on monitoring dissociation rate of the trans-acting factor MerR from cis-element by surface plasmon resonance. Biosensors and Bioelectronics, 2015, 67, 309-314.	10.1	9
13	Simultaneous recovery and purification of rice protein and phosphorus compounds from full-fat and defatted rice bran with organic solvent-free process. Journal of Bioscience and Bioengineering, 2015, 119, 206-211.	2.2	11
14	Combinatorial parallel display of polypeptides using bacteriophage T7 for development of fluorescent nano-bioprobes. Journal of Bioscience and Bioengineering, 2013, 116, 28-33.	2.2	4
15	Acyclic carotenoid and cyclic apocarotenoid cleavage by an orthologue of lignostilbene-Î±,Î²-dioxygenase in Rhodopseudomonas palustris. Journal of Biochemistry, 2013, 154, 449-454.	1.7	2
16	Population Abundance of Potentially Pathogenic Organisms in Intestinal Microbiome of Jungle Crow (Corvus macrorhynchos) Shown with 16S rRNA Gene-Based Microbial Community Analysis. BioMed Research International, 2013, 2013, 1-5.	1.9	9
17	Thermoresponsive Magnetic Nano-Biosensors for Rapid Measurements of Inorganic Arsenic and Cadmium. Sensors, 2012, 12, 14041-14052.	3.8	14
18	Photosynthetic fuel cell using purple non-sulfur bacteria. , 2012, , .		3

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19	Genetic Modification in Bacillus subtilis for Production of C30 Carotenoids. Methods in Molecular Biology, 2012, 892, 197-205.	0.9	6
20	Fluorescent bioassays for toxic metals in milk and yoghurt. BMC Biotechnology, 2012, 12, 76.	3.3	5
21	Solid Phase Biosensors for Arsenic or Cadmium Composed of A trans Factor and cis Element Complex. Sensors, 2011, 11, 10063-10073.	3.8	16
22	Monitoring of Environmental Arsenic by Cultures of the Photosynthetic Bacterial Sensor Illuminated with a Near-Infrared Light Emitting Diode Array. Journal of Microbiology and Biotechnology, 2011, 21, 1306-1311.	2.1	2
23	Application of fluorescent protein-tagged trans factors and immobilized cis elements to monitoring of toxic metals based on in vitro proteinâ€“DNA interactions. Biosensors and Bioelectronics, 2010, 26, 1466-1473.	10.1	14
24	Genetic replacement of tesB with PTE1 affects chain-length proportions of 3-hydroxyalkanoic acids produced through Î²-oxidation of oleic acid in Escherichia coli. Journal of Bioscience and Bioengineering, 2010, 110, 392-396.	2.2	10
25	Distribution of Retinal Cone Photoreceptor Oil Droplets, and Identification of Associated Carotenoids in Crow (Corvus macrorhynchos). Zoological Science, 2010, 27, 514-521.	0.7	8
26	Sensitive fluorescent microplate bioassay using recombinant Escherichia coli with multiple promoterâ€“reporter units in tandem for detection of arsenic. Journal of Bioscience and Bioengineering, 2009, 108, 414-420.	2.2	37
27	Carotenoid production in Bacillus subtilis achieved by metabolic engineering. Biotechnology Letters, 2009, 31, 1789-1793.	2.2	42
28	Functional substitution of the transient membrane-anchor domain inEscherichia coliFtsY with an N-terminal hydrophobic segment ofStreptomyces lividansFtsY. FEMS Microbiology Letters, 2008, 287, 85-90.	1.8	5
29	Novel Carotenoid-Based Biosensor for Simple Visual Detection of Arsenite: Characterization and Preliminary Evaluation for Environmental Application. Applied and Environmental Microbiology, 2008, 74, 6730-6738.	3.1	50
30	Applications of Green Mutants Isolated from Purple Bacteria as a Host for Colorimetric Whole-Cell Biosensors. , 2008, , 1359-1363.		0
31	Development of Whole-Cell Biosensors Based on Color Change by Accumulation of Carotenoids. Bunseki Kagaku, 2007, 56, 993-1003.	0.2	0
32	Evaluation of colors in green mutants isolated from purple bacteria as a host for colorimetric whole-cell biosensors. Applied Microbiology and Biotechnology, 2007, 76, 1043-1050.	3.6	19
33	Cellouronate (Î²-1,4-linked polyglucuronate) lyase from Brevundimonas sp. SH203: Purification and characterization. Carbohydrate Polymers, 2006, 64, 589-596.	10.2	38
34	Colorimetric dimethyl sulfide sensor using Rhodovulum sulfidophilum cells based on intrinsic pigment conversion by CrtA. Applied Microbiology and Biotechnology, 2006, 70, 397-402.	3.6	25
35	Whole-cell arsenite biosensor using photosynthetic bacterium Rhodovulum sulfidophilum. Applied Microbiology and Biotechnology, 2006, 73, 332-338.	3.6	60
36	Simultaneous control of turbidity and dilution rate through adjustment of medium composition in semi-continuousChlamydomonas cultures. Biotechnology and Bioengineering, 2006, 94, 722-729.	3.3	14

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37	The Peroxisomal Acyl-CoA Thioesterase Pte1p from Saccharomyces cerevisiae Is Required for Efficient Degradation of Short Straight Chain and Branched Chain Fatty Acids. Journal of Biological Chemistry, 2006, 281, 11729-11735.	3.4	31
38	Unusual Accumulation of Demethylspheroidene in Anaerobic-Phototrophic Growth of crtA-Deleted Mutants of Rhodovulum sulfidophilum. Current Microbiology, 2005, 51, 193-197.	2.2	9
39	Increasing the Carbon Flux toward Synthesis of Short-Chain-Lengthâ€"Medium-Chain-Length Polyhydroxyalkanoate in the Peroxisome of Saccharomyces cerevisiae through Modification of the Î²-Oxidation Cycle. Applied and Environmental Microbiology, 2004, 70, 5685-5687.	3.1	11
40	Mechanism of Enhancement Effect of Dendrimer on Transdermal Drug Permeation through Polyhydroxyalkanoate Matrix. Journal of Bioscience and Bioengineering, 2004, 96, 537-540.	2.2	1
41	Comparative Study of the N-Terminal Hydrophilic Region in Streptomyces lividans and E. coli FtsY. Current Microbiology, 2003, 47, 22-25.	2.2	2
42	Novel transdermal drug delivery system with polyhydroxyalkanoate and starburst polyamidoamine dendrimer. Journal of Bioscience and Bioengineering, 2003, 95, 541-543.	2.2	93
43	Maximization of hydrogen production ability in high-density suspension ofRhodovulum sulfidophilum cells using intracellular poly(3-hydroxybutyrate) as sole substrate. Biotechnology and Bioengineering, 2003, 81, 474-481.	3.3	50
44	Adenoviral transfection of hepatocytes with the thioredoxin gene confers protection against apoptosis and necrosis. Biochemical and Biophysical Research Communications, 2003, 307, 765-770.	2.1	17
45	Cloning and Molecular Analysis of Poly(3-Hydroxyalkanoate) Biosynthesis Genes in Pseudomonas aureofaciens. Current Microbiology, 2002, 44, 132-135.	2.2	10
46	Polyethyleneimine/Chitosan Hexamer-Mediated Gene Transfection into Intestinal Epithelial Cell Cultured in Serum-Containing Medium. Journal of Bioscience and Bioengineering, 2002, 94, 81-83.	2.2	1
47	Repression of starch degradation under anaerobic conditions by irregularly high levels of ATP in Chlamydomonas sp. MGA161. Plant Science, 2001, 160, 629-634.	3.6	6
48	Short Communication: Homology Study of Two Polyhydroxyalkanoate (PHA) Synthases from Pseudomonas Aureofaciens. DNA Sequence, 2001, 12, 281-284.	0.7	0
49	Effect of bovine small intestine thioredoxin on aldose reductase activity. Chemico-Biological Interactions, 2001, 130-132, 609-615.	4.0	0
50	Influence of Sulfate-Reducing Bacteria on Outdoor Hydrogen Production by Photosynthetic Bacterium with Seawater. Current Microbiology, 2000, 40, 210-213.	2.2	15
51	Increase in Thioredoxin Activity of Intestinal Epithelial Cells Mediated by Oxidative Stress.. Biological and Pharmaceutical Bulletin, 1999, 22, 900-903.	1.4	23
52	Formation of Lens Aldose Reductase Mixed Disulfides with GSH by UV Irradiation and Its Proteolysis by Lens Calpain. Advances in Experimental Medicine and Biology, 1999, 463, 481-486.	1.6	2
53	Excretion of glycerol by the marine Chlamydomonas sp. strain W-80 in high CO2 cultures. Journal of Bioscience and Bioengineering, 1998, 85, 122-124.	0.9	29
54	Broad spectrum and mode of action of an antibiotic produced byScytonema sp. TISTR 8208 in a seaweed-type bioreactor. Applied Biochemistry and Biotechnology, 1998, 70-72, 249-256.	2.9	12

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55	Improvement of substrate conversion to molecular hydrogen by three-stage cultivation of a photosynthetic bacterium,Rhodovulum sulfidophilum. Applied Biochemistry and Biotechnology, 1998, 70-72, 301-310.	2.9	11
56	Broad Spectrum and Mode of Action of an Antibiotic Produced by Scytonema sp. TISTR 8208 in a Seaweed-Type Bioreactor. , 1998, , 249-256.		1
57	Stably sustained hydrogen production by biophotolysis in natural day/night cycle. Energy Conversion and Management, 1997, 38, S533-S537.	9.2	23
58	Factors affecting polyhydroxybutyrate biosynthesis in the marine photosynthetic bacteriumRhodopseudomonas sp. strain W-1S. Applied Biochemistry and Biotechnology, 1996, 57-58, 361-366.	2.9	9
59	Acquisition of the ability to grow under autotrophic conditions by heterotrophic bacteria through the introduction of DNA fragments from hydrogen-oxidizing bacteria. Applied Biochemistry and Biotechnology, 1996, 57-58, 367-373.	2.9	0
60	Acceleration of Starch Degradation by Suppression of H2Evolution inChlamydomonassp. MGA161. Bioscience, Biotechnology and Biochemistry, 1996, 60, 975-978.	1.3	6
61	Continuous antibiotic production by an immobilized cyanobacterium in a seaweed-type bioreactor. Journal of Applied Phycology, 1995, 7, 135-139.	2.8	9
62	Hydrogen production by photosynthetic microorganisms. Energy Conversion and Management, 1995, 36, 903-906.	9.2	20
63	Antibiotic production by the immobilized cyanobacterium,Scytonema sp. TISTR 8208, in a seaweed-type photobioreactor. Journal of Applied Phycology, 1994, 6, 539-543.	2.8	27
64	Enhancement of starch degradation by CO2 in a marine green alga, Chlamydomonas sp. MGA161. Journal of Bioscience and Bioengineering, 1994, 78, 383-385.	0.9	5
65	Removal of inhibition by ammonium ion in nitrogenase-dependent hydrogen evolution of a marine photosynthetic bacterium,Rhodopseudomonas sp. strain W-1S. Applied Biochemistry and Biotechnology, 1994, 45-46, 429-436.	2.9	10