

Isamu Maeda

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7526937/publications.pdf>

Version: 2024-02-01

65
papers

987
citations

430874

18
h-index

501196

28
g-index

66
all docs

66
docs citations

66
times ranked

1051
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel transdermal drug delivery system with polyhydroxyalkanoate and starburst polyamidoamine dendrimer. <i>Journal of Bioscience and Bioengineering</i> , 2003, 95, 541-543.	2.2	93
2	Whole-cell arsenite biosensor using photosynthetic bacterium <i>Rhodovulum sulfidophilum</i> . <i>Applied Microbiology and Biotechnology</i> , 2006, 73, 332-338.	3.6	60
3	Maximization of hydrogen production ability in high-density suspension of <i>Rhodovulum sulfidophilum</i> cells using intracellular poly(3-hydroxybutyrate) as sole substrate. <i>Biotechnology and Bioengineering</i> , 2003, 81, 474-481.	3.3	50
4	Novel Carotenoid-Based Biosensor for Simple Visual Detection of Arsenite: Characterization and Preliminary Evaluation for Environmental Application. <i>Applied and Environmental Microbiology</i> , 2008, 74, 6730-6738.	3.1	50
5	Carotenoid production in <i>Bacillus subtilis</i> achieved by metabolic engineering. <i>Biotechnology Letters</i> , 2009, 31, 1789-1793.	2.2	42
6	Celluronate (β -1,4-linked polyglucuronate) lyase from <i>Brevundimonas</i> sp. SH203: Purification and characterization. <i>Carbohydrate Polymers</i> , 2006, 64, 589-596.	10.2	38
7	Sensitive fluorescent microplate bioassay using recombinant <i>Escherichia coli</i> with multiple promoter-reporter units in tandem for detection of arsenic. <i>Journal of Bioscience and Bioengineering</i> , 2009, 108, 414-420.	2.2	37
8	The Peroxisomal Acyl-CoA Thioesterase Pte1p from <i>Saccharomyces cerevisiae</i> Is Required for Efficient Degradation of Short Straight Chain and Branched Chain Fatty Acids. <i>Journal of Biological Chemistry</i> , 2006, 281, 11729-11735.	3.4	31
9	Linoleic acid, γ -linolenic acid, and monolinolenins as antibacterial substances in the heat-processed soybean fermented with <i>Rhizopus oligosporus</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2020, 84, 1285-1290.	1.3	31
10	Excretion of glycerol by the marine <i>Chlamydomonas</i> sp. strain W-80 in high CO ₂ cultures. <i>Journal of Bioscience and Bioengineering</i> , 1998, 85, 122-124.	0.9	29
11	Antibiotic production by the immobilized cyanobacterium, <i>Scytonema</i> sp. TISTR 8208, in a seaweed-type photobioreactor. <i>Journal of Applied Phycology</i> , 1994, 6, 539-543.	2.8	27
12	Colorimetric dimethyl sulfide sensor using <i>Rhodovulum sulfidophilum</i> cells based on intrinsic pigment conversion by CrtA. <i>Applied Microbiology and Biotechnology</i> , 2006, 70, 397-402.	3.6	25
13	Stably sustained hydrogen production by biophotolysis in natural day/night cycle. <i>Energy Conversion and Management</i> , 1997, 38, S533-S537.	9.2	23
14	Increase in Thioredoxin Activity of Intestinal Epithelial Cells Mediated by Oxidative Stress. <i>Biological and Pharmaceutical Bulletin</i> , 1999, 22, 900-903.	1.4	23
15	Nitrogen fixation in <i>Rhodospseudomonas palustris</i> co-cultured with <i>Bacillus subtilis</i> in the presence of air. <i>Journal of Bioscience and Bioengineering</i> , 2019, 127, 589-593.	2.2	23
16	Evaluation of bacterial communities by bacteriome analysis targeting 16S rRNA genes and quantitative analysis of ammonia monooxygenase gene in different types of compost. <i>Journal of Bioscience and Bioengineering</i> , 2016, 121, 57-65.	2.2	22
17	Hydrogen production by photosynthetic microorganisms. <i>Energy Conversion and Management</i> , 1995, 36, 903-906.	9.2	20
18	Evaluation of colors in green mutants isolated from purple bacteria as a host for colorimetric whole-cell biosensors. <i>Applied Microbiology and Biotechnology</i> , 2007, 76, 1043-1050.	3.6	19

#	ARTICLE	IF	CITATIONS
19	Evaluating of quality of rice bran protein concentrate prepared by a combination of isoelectronic precipitation and electrolyzed water treatment. <i>LWT - Food Science and Technology</i> , 2019, 99, 262-267.	5.2	19
20	Adenoviral transfection of hepatocytes with the thioredoxin gene confers protection against apoptosis and necrosis. <i>Biochemical and Biophysical Research Communications</i> , 2003, 307, 765-770.	2.1	17
21	Solid Phase Biosensors for Arsenic or Cadmium Composed of A trans Factor and cis Element Complex. <i>Sensors</i> , 2011, 11, 10063-10073.	3.8	16
22	Influence of Sulfate-Reducing Bacteria on Outdoor Hydrogen Production by Photosynthetic Bacterium with Seawater. <i>Current Microbiology</i> , 2000, 40, 210-213.	2.2	15
23	Potential of Phototrophic Purple Nonsulfur Bacteria to Fix Nitrogen in Rice Fields. <i>Microorganisms</i> , 2022, 10, 28.	3.6	15
24	Simultaneous control of turbidity and dilution rate through adjustment of medium composition in semi-continuous <i>Chlamydomonas</i> cultures. <i>Biotechnology and Bioengineering</i> , 2006, 94, 722-729.	3.3	14
25	Application of fluorescent protein-tagged trans factors and immobilized cis elements to monitoring of toxic metals based on in vitro protein-DNA interactions. <i>Biosensors and Bioelectronics</i> , 2010, 26, 1466-1473.	10.1	14
26	Thermoresponsive Magnetic Nano-Biosensors for Rapid Measurements of Inorganic Arsenic and Cadmium. <i>Sensors</i> , 2012, 12, 14041-14052.	3.8	14
27	Extracellular protease derived from lactic acid bacteria stimulates the fermentative lactic acid production from the by-products of rice as a biomass refinery function. <i>Journal of Bioscience and Bioengineering</i> , 2017, 123, 245-251.	2.2	14
28	Broad spectrum and mode of action of an antibiotic produced by <i>Scytonema</i> sp. TISTR 8208 in a seaweed-type bioreactor. <i>Applied Biochemistry and Biotechnology</i> , 1998, 70-72, 249-256.	2.9	12
29	Improvement of substrate conversion to molecular hydrogen by three-stage cultivation of a photosynthetic bacterium, <i>Rhodovulum sulfidophilum</i> . <i>Applied Biochemistry and Biotechnology</i> , 1998, 70-72, 301-310.	2.9	11
30	Increasing the Carbon Flux toward Synthesis of Short-Chain-Length-Medium-Chain-Length Polyhydroxyalkanoate in the Peroxisome of <i>Saccharomyces cerevisiae</i> through Modification of the β^2 -Oxidation Cycle. <i>Applied and Environmental Microbiology</i> , 2004, 70, 5685-5687.	3.1	11
31	Simultaneous recovery and purification of rice protein and phosphorus compounds from full-fat and defatted rice bran with organic solvent-free process. <i>Journal of Bioscience and Bioengineering</i> , 2015, 119, 206-211.	2.2	11
32	Removal of inhibition by ammonium ion in nitrogenase-dependent hydrogen evolution of a marine photosynthetic bacterium, <i>Rhodospseudomonas</i> sp. strain W-1S. <i>Applied Biochemistry and Biotechnology</i> , 1994, 45-46, 429-436.	2.9	10
33	Cloning and Molecular Analysis of Poly(3-Hydroxyalkanoate) Biosynthesis Genes in <i>Pseudomonas aureofaciens</i> . <i>Current Microbiology</i> , 2002, 44, 132-135.	2.2	10
34	Genetic replacement of <i>tesB</i> with PTE1 affects chain-length proportions of 3-hydroxyalkanoic acids produced through β^2 -oxidation of oleic acid in <i>Escherichia coli</i> . <i>Journal of Bioscience and Bioengineering</i> , 2010, 110, 392-396.	2.2	10
35	Continuous antibiotic production by an immobilized cyanobacterium in a seaweed-type bioreactor. <i>Journal of Applied Phycology</i> , 1995, 7, 135-139.	2.8	9
36	Factors affecting polyhydroxybutyrate biosynthesis in the marine photosynthetic bacterium <i>Rhodospseudomonas</i> sp. strain W-1S. <i>Applied Biochemistry and Biotechnology</i> , 1996, 57-58, 361-366.	2.9	9

#	ARTICLE	IF	CITATIONS
37	Unusual Accumulation of Demethylspheroidene in Anaerobic-Phototrophic Growth of crtA-Deleted Mutants of <i>Rhodovulum sulfidophilum</i> . <i>Current Microbiology</i> , 2005, 51, 193-197.	2.2	9
38	Population Abundance of Potentially Pathogenic Organisms in Intestinal Microbiome of Jungle Crow (<i>Corvus macrorhynchos</i>) Shown with 16S rRNA Gene-Based Microbial Community Analysis. <i>BioMed Research International</i> , 2013, 2013, 1-5.	1.9	9
39	Mercury (II) sensor based on monitoring dissociation rate of the trans-acting factor MerR from cis-element by surface plasmon resonance. <i>Biosensors and Bioelectronics</i> , 2015, 67, 309-314.	10.1	9
40	Distribution of Retinal Cone Photoreceptor Oil Droplets, and Identification of Associated Carotenoids in Crow (<i>Corvus macrorhynchos</i>). <i>Zoological Science</i> , 2010, 27, 514-521.	0.7	8
41	Acceleration of Starch Degradation by Suppression of H ₂ Evolution in <i>Chlamydomonas</i> sp. MGA161. <i>Bioscience, Biotechnology and Biochemistry</i> , 1996, 60, 975-978.	1.3	6
42	Repression of starch degradation under anaerobic conditions by irregularly high levels of ATP in <i>Chlamydomonas</i> sp. MGA161. <i>Plant Science</i> , 2001, 160, 629-634.	3.6	6
43	Genetic Modification in <i>Bacillus subtilis</i> for Production of C30 Carotenoids. <i>Methods in Molecular Biology</i> , 2012, 892, 197-205.	0.9	6
44	Effect of increased feeding of dietary linolenic acid by grazing on formation of the cis-9, trans-11 18:2 isoform of conjugated linoleic acid in bovine milk. <i>Animal Science Journal</i> , 2017, 88, 1006-1011.	1.4	6
45	Biosyntheses of geranic acid and citronellic acid from monoterpene alcohols by <i>Saccharomyces cerevisiae</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2021, 85, 1530-1535.	1.3	6
46	The Growth of Leaf Lettuce and Bacterial Communities in a Closed Aquaponics System with Catfish. <i>Horticulturae</i> , 2021, 7, 222.	2.8	6
47	Enhancement of starch degradation by CO ₂ in a marine green alga, <i>Chlamydomonas</i> sp. MGA161. <i>Journal of Bioscience and Bioengineering</i> , 1994, 78, 383-385.	0.9	5
48	Functional substitution of the transient membrane-anchor domain in <i>Escherichia coli</i> FtsY with an N-terminal hydrophobic segment of <i>Streptomyces lividans</i> FtsY. <i>FEMS Microbiology Letters</i> , 2008, 287, 85-90.	1.8	5
49	Fluorescent bioassays for toxic metals in milk and yoghurt. <i>BMC Biotechnology</i> , 2012, 12, 76.	3.3	5
50	Light-enhanced bioaccumulation of molybdenum by nitrogen-deprived recombinant anoxygenic photosynthetic bacterium <i>Rhodospseudomonas palustris</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2016, 80, 407-413.	1.3	5
51	Combinatorial parallel display of polypeptides using bacteriophage T7 for development of fluorescent nano-bioprobes. <i>Journal of Bioscience and Bioengineering</i> , 2013, 116, 28-33.	2.2	4
52	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. <i>Microbes and Environments</i> , 2021, 36, n/a.	1.6	4
53	Photosynthetic fuel cell using purple non-sulfur bacteria. , 2012, , .		3
54	Comparative Study of the N-Terminal Hydrophilic Region in <i>Streptomyces lividans</i> and <i>E. coli</i> FtsY. <i>Current Microbiology</i> , 2003, 47, 22-25.	2.2	2

#	ARTICLE	IF	CITATIONS
55	Acyclic carotenoid and cyclic apocarotenoid cleavage by an orthologue of lignostilbene-1,2-dioxygenase in <i>Rhodospseudomonas palustris</i> . <i>Journal of Biochemistry</i> , 2013, 154, 449-454.	1.7	2
56	Formation of Lens Aldose Reductase Mixed Disulfides with GSH by UV Irradiation and Its Proteolysis by Lens Calpain. <i>Advances in Experimental Medicine and Biology</i> , 1999, 463, 481-486.	1.6	2
57	Monitoring of Environmental Arsenic by Cultures of the Photosynthetic Bacterial Sensor Illuminated with a Near-Infrared Light Emitting Diode Array. <i>Journal of Microbiology and Biotechnology</i> , 2011, 21, 1306-1311.	2.1	2
58	Mechanism of Enhancement Effect of Dendrimer on Transdermal Drug Permeation through Polyhydroxyalkanoate Matrix. <i>Journal of Bioscience and Bioengineering</i> , 2004, 96, 537-540.	2.2	1
59	Broad Spectrum and Mode of Action of an Antibiotic Produced by <i>Scytonema</i> sp. TISTR 8208 in a Seaweed-Type Bioreactor. , 1998, , 249-256.		1
60	Polyethyleneimine/Chitosan Hexamer-Mediated Gene Transfection into Intestinal Epithelial Cell Cultured in Serum-Containing Medium. <i>Journal of Bioscience and Bioengineering</i> , 2002, 94, 81-83.	2.2	1
61	Acquisition of the ability to grow under autotrophic conditions by heterotrophic bacteria through the introduction of DNA fragments from hydrogen-oxidizing bacteria. <i>Applied Biochemistry and Biotechnology</i> , 1996, 57-58, 367-373.	2.9	0
62	Short Communication: Homology Study of Two Polyhydroxyalkanoate (PHA) Synthases from <i>Pseudomonas Aureofaciens</i> . <i>DNA Sequence</i> , 2001, 12, 281-284.	0.7	0
63	Effect of bovine small intestine thioredoxin on aldose reductase activity. <i>Chemico-Biological Interactions</i> , 2001, 130-132, 609-615.	4.0	0
64	Development of Whole-Cell Biosensors Based on Color Change by Accumulation of Carotenoids. <i>Bunseki Kagaku</i> , 2007, 56, 993-1003.	0.2	0
65	Applications of Green Mutants Isolated from Purple Bacteria as a Host for Colorimetric Whole-Cell Biosensors. , 2008, , 1359-1363.		0