

Hideki Aoyagi

List of Publications by Year in descending order

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106
papers

2,892
citations

257101

24
h-index

189595

50
g-index

113
all docs

113
docs citations

113
times ranked

3335
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal and UV Degradation Kinetics of Water-Soluble Extracellular Pigment Produced by <i>Talaromyces purpurogenus</i> . <i>Food and Bioprocess Technology</i> , 2022, 15, 606-619.	2.6	5
2	Effect of physicochemical factors on extracellular fungal pigment-mediated biofabrication of silver nanoparticles. <i>Green Chemistry Letters and Reviews</i> , 2022, 15, 276-286.	2.1	4
3	Development of a device for cultivation and isolation of microbes using a specialized cellulose film. <i>Journal of Microbiological Methods</i> , 2022, 195, 106450.	0.7	1
4	Fungal Pigment-Assisted Silver Nanoparticle Synthesis and Their Antimicrobial and Cytotoxic Potential. <i>Methods in Molecular Biology</i> , 2022, 2469, 65-78.	0.4	1
5	Use of <i>Catharanthus roseus</i> Cell Cultures for the Synthesis of Metal Nanoparticles. <i>Methods in Molecular Biology</i> , 2022, 2469, 55-64.	0.4	1
6	Control of carbon dioxide concentration in headspace of multiple flasks using both non-electric bellows pump and shaking incubator. <i>Journal of Bioscience and Bioengineering</i> , 2022, , .	1.1	0
7	Determination of available breaking stress of agar and gellan gum plate culture methods and the duration of bacterial culture under strong acidic conditions. <i>Journal of Applied Microbiology</i> , 2021, 130, 157-164.	1.4	3
8	Immobilization of raw starch saccharifying amylase on glutaraldehyde activated chitin flakes increases the enzyme operation range. <i>Bioresource Technology Reports</i> , 2021, 13, 100645.	1.5	12
9	Production and stability of pigments by <i>Talaromyces purpurogenus</i> LC128689 in an alternating air phase-liquid phase cultivation system. <i>Biotechnology and Applied Biochemistry</i> , 2021, , .	1.4	4
10	Tailored synbiotic powder (functional food) to prevent hyperphosphataemia (kidney disorder). <i>Scientific Reports</i> , 2021, 11, 16485.	1.6	2
11	Development of a bellows pumping device for enhancing ventilation to shake-flask systems. <i>Biochemical Engineering Journal</i> , 2021, 174, 108098.	1.8	1
12	Analysis of the influence of flame sterilization included in sampling operations on shake-flask cultures of microorganisms. <i>Scientific Reports</i> , 2020, 10, 10385.	1.6	6
13	Citraconylation and maleylation on the catalytic and thermodynamic properties of raw starch saccharifying amylase from <i>Aspergillus carbonarius</i> . <i>Heliyon</i> , 2020, 6, e04351.	1.4	15
14	Analysis of porous breathable stopper and development of PID control for gas phase during shake-flask culture with microorganisms. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 8925-8936.	1.7	4
15	Simultaneous accumulation of lipid and carotenoid in freshwater green microalgae <i>Desmodesmus subspicatus</i> LC172266 by nutrient replete strategy under mixotrophic condition. <i>Korean Journal of Chemical Engineering</i> , 2020, 37, 1522-1529.	1.2	10
16	Analysis and effect of conventional flasks in shaking culture of <i>Escherichia coli</i> . <i>AMB Express</i> , 2020, 10, 77.	1.4	7
17	Biosynthesis of Silver Nanoparticles Mediated by Extracellular Pigment from <i>Talaromyces purpurogenus</i> and Their Biomedical Applications. <i>Nanomaterials</i> , 2019, 9, 1042.	1.9	69
18	Simple method for analyzing the purity of protease-containing samples by acid-treatment SDS-PAGE. <i>Journal of Bioscience and Bioengineering</i> , 2019, 128, 630-635.	1.1	5

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19	Estimation of microbial phosphate-accumulation abilities. <i>Scientific Reports</i> , 2019, 9, 4879.	1.6	12
20	Screening of Phosphate-accumulating Probiotics for Potential Use in Chronic Kidney Disorder. <i>Food Science and Technology Research</i> , 2019, 25, 89-96.	0.3	12
21	A High Throughput Isolation Method for Phosphate-Accumulating Organisms. <i>Scientific Reports</i> , 2019, 9, 18083.	1.6	5
22	A novel strategy for the synthesis of gold nanoparticles with <i>Catharanthus roseus</i> cell suspension culture. <i>Materials Letters</i> , 2019, 238, 317-320.	1.3	11
23	Microbial community structure analysis in <i>Acer palmatum</i> bark and isolation of novel bacteria IAD-21 of the candidate division FBP. <i>PeerJ</i> , 2019, 7, e7876.	0.9	10
24	Practices of shake-flask culture and advances in monitoring CO ₂ and O ₂ . <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 4279-4289.	1.7	15
25	Effect of intermittent opening of breathable culture plugs and aeration of headspace on the structure of microbial communities in shake-flask culture. <i>Journal of Bioscience and Bioengineering</i> , 2018, 126, 96-101.	1.1	13
26	Stable antibacterial silver nanoparticles produced with seed-derived callus extract of <i>Catharanthus roseus</i> . <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 1266-1273.	1.9	26
27	Monitoring of CO ₂ and O ₂ concentrations in the headspace of Sakaguchi flasks during liquid culture of microorganism. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 6637-6645.	1.7	12
28	Adsorption preference for divalent metal ions by <i>Lactobacillus casei</i> JCM1134. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 6155-6162.	1.7	13
29	Chemical modification with phthalic anhydride and chitosan: Viable options for the stabilization of raw starch digesting amylase from <i>Aspergillus carbonarius</i> . <i>International Journal of Biological Macromolecules</i> , 2017, 99, 641-647.	3.6	20
30	A novel flat plate air-lift photobioreactor with inclined reflective broth circulation guide for improved biomass and lipid productivity by <i>Desmodesmus subspicatus</i> LC172266. <i>Journal of Applied Phycology</i> , 2017, 29, 2745-2754.	1.5	22
31	Development of a circulation direct sampling and monitoring system for O ₂ and CO ₂ concentrations in the gas-liquid phases of shake-flask systems during microbial cell culture. <i>AMB Express</i> , 2017, 7, 163.	1.4	15
32	Effect of tetrasodium pyrophosphate concentration and cooking time on the physicochemical properties of process cheese. <i>Journal of Dairy Science</i> , 2016, 99, 6983-6994.	1.4	13
33	Production of secretory cutinase by recombinant <i>Saccharomyces cerevisiae</i> protoplasts. <i>SpringerPlus</i> , 2016, 5, 160.	1.2	2
34	Optimization of chemically defined feed media for monoclonal antibody production in Chinese hamster ovary cells. <i>Journal of Bioscience and Bioengineering</i> , 2015, 120, 78-84.	1.1	43
35	Effect of temperature shift on levels of acidic charge variants in IgG monoclonal antibodies in Chinese hamster ovary cell culture. <i>Journal of Bioscience and Bioengineering</i> , 2015, 119, 700-705.	1.1	29
36	Treatment of Palm Oil Mill Effluent by a Microbial Consortium Developed from Compost Soils. <i>International Scholarly Research Notices</i> , 2014, 2014, 1-8.	0.9	12

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37	Improved yield and stability of amylase by multipoint covalent binding on polyglutaraldehyde activated chitosan beads: Activation of denatured enzyme molecules by calcium ions. <i>Process Biochemistry</i> , 2013, 48, 1031-1038.	1.8	24
38	Lipase Production from Palm Oil Mill Effluent by <i>Aspergillus terreus</i> Immobilized on Luffa Sponge. <i>Journal of Applied Sciences</i> , 2013, 13, 5661-5671.	0.1	8
39	Enhancement of microbubble generation in a pressurized dissolution process by packing the nozzle with porous ceramics. <i>Water Science and Technology</i> , 2012, 65, 69-75.	1.2	4
40	Effects of low-shear modeled microgravity on a microbial community filtered through a 0.2- μ m filter and its potential application in screening for novel microorganisms. <i>Journal of Bioscience and Bioengineering</i> , 2012, 114, 73-79.	1.1	3
41	Simplified preparation of crude and functional coagulogen by thermal inactivation of serine proteases in <i>Limulus</i> amoebocyte lysate and its application for rapid endotoxin determination. <i>Journal of Bioscience and Bioengineering</i> , 2012, 113, 406-411.	1.1	4
42	Immobilization of a saccharifying raw starch hydrolyzing enzyme on functionalized and non-functionalized sepa beads. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2012, 78, 1-8.	1.8	29
43	Stabilization of a raw starch digesting amylase from <i>Aspergillus carbonarius</i> via immobilization on activated and non-activated agarose gel. <i>World Journal of Microbiology and Biotechnology</i> , 2012, 28, 335-345.	1.7	13
44	Secretory production of cell wall components by <i>Saccharomyces cerevisiae</i> protoplasts in static liquid culture. <i>Biotechnology Letters</i> , 2012, 34, 695-700.	1.1	5
45	Utilization of Broken Rice for the Production of Poly(3-hydroxybutyrate). <i>Journal of Polymers and the Environment</i> , 2012, 20, 254-257.	2.4	9
46	Microalgal Culture Systems: An Insight into their Designs, Operation and Applications. <i>Biotechnology</i> , 2012, 11, 127-132.	0.5	22
47	Stabilization of a Raw-Starch-Digesting Amylase by Multipoint Covalent Attachment on Glutaraldehyde-Activated Amberlite Beads. <i>Journal of Microbiology and Biotechnology</i> , 2012, 22, 628-636.	0.9	11
48	Fullerene fine particles adhere to pollen grains and affect their autofluorescence and germination. <i>Nanotechnology, Science and Applications</i> , 2011, 4, 67.	4.6	9
49	Application of plant protoplasts for the production of useful metabolites. <i>Biochemical Engineering Journal</i> , 2011, 56, 1-8.	1.8	29
50	Screening for lectin-like protein-producing microorganisms based on cell surface proteins. <i>Canadian Journal of Microbiology</i> , 2011, 57, 78-83.	0.8	1
51	Immobilization of raw starch digesting amylase on silica gel: A comparative study. <i>African Journal of Biotechnology</i> , 2011, 10, .	0.3	9
52	Development of a novel real-time pollen-sorting counter using species-specific pollen autofluorescence. <i>Aerobiologia</i> , 2010, 26, 99-111.	0.7	42
53	Changes in the quality of antibodies produced by Chinese hamster ovary cells during the death phase of cell culture. <i>Journal of Bioscience and Bioengineering</i> , 2010, 109, 281-287.	1.1	18
54	Evaluation of Chinese hamster ovary cell stability during repeated batch culture for large-scale antibody production. <i>Journal of Bioscience and Bioengineering</i> , 2010, 109, 274-280.	1.1	21

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55	Turbidimetric method for evaluation of photocatalytic activities of suspended fine particles. <i>Nanotechnology, Science and Applications</i> , 2010, 3, 85.	4.6	0
56	Efficient Production of Active Form Recombinant Cassava Hydroxynitrile Lyase Using <i>Escherichia coli</i> in Low-Temperature Culture. <i>Methods in Molecular Biology</i> , 2010, 643, 133-144.	0.4	11
57	Classification of pollen species using autofluorescence image analysis. <i>Journal of Bioscience and Bioengineering</i> , 2009, 107, 90-94.	1.1	51
58	Effects of reactive oxygen species on $\hat{\pm}$ -tocopherol production in mitochondria and chloroplasts of <i>Euglena gracilis</i> . <i>Journal of Applied Phycology</i> , 2009, 21, 185-191.	1.5	12
59	Influence of shading inclined tubular photobioreactor surfaces on biomass productivity of <i>C. sorokiniana</i> . <i>Photosynthetica</i> , 2008, 46, .	0.9	12
60	Effect of mixed organic substrate on $\hat{\pm}$ -tocopherol production by <i>Euglena gracilis</i> in photoheterotrophic culture. <i>Applied Microbiology and Biotechnology</i> , 2008, 79, 371-378.	1.7	47
61	Efficient production of active form of recombinant cassava hydroxynitrile lyase using <i>Escherichia coli</i> in low-temperature culture. <i>Applied Microbiology and Biotechnology</i> , 2008, 79, 563-569.	1.7	20
62	Photobioreactors for mass cultivation of algae. <i>Bioresource Technology</i> , 2008, 99, 4021-4028.	4.8	941
63	Effect of heat-generated product from uronic acids on the physiological activities of microbial cells and its application. <i>Bioresource Technology</i> , 2008, 99, 4534-4538.	4.8	10
64	Construction of an artificial symbiotic community using a <i>Chlorella</i> – <i>Escherichia coli</i> symbiont association as a model. <i>FEMS Microbiology Ecology</i> , 2008, 63, 273-282.	1.3	42
65	UV mutagenesis of <i>Cupriavidus necator</i> for extracellular production of (<i>R</i>)-3-hydroxybutyric acid. <i>Journal of Applied Microbiology</i> , 2008, 105, 236-242.	1.4	16
66	Development of a novel artificial medium based on utilization of algal photosynthetic metabolites by symbiotic heterotrophs. <i>Journal of Applied Microbiology</i> , 2008, 105, 741-751.	1.4	19
67	Optimization of the Thermal Dry Treatment To Enhance the Enzymatic Hydrolysis of a Spent-Sawdust Matrix Used for <i>Grifola frondosa</i> Cultivation. <i>Energy & Fuels</i> , 2008, 22, 120-122.	2.5	6
68	Utilization of Spent Sawdust Matrix after Cultivation of <i>Grifola frondosa</i> as Substrate for Ethanol Production by Simultaneous Saccharification and Fermentation. <i>Food Science and Technology Research</i> , 2007, 13, 111-117.	0.3	23
69	Phylogenetic Relationship of Symbiotic Archaea in the Gut of the Higher Termite <i>Nasutitermes takasagoensis</i> Fed with Various Carbon Sources. <i>Microbes and Environments</i> , 2007, 22, 157-164.	0.7	18
70	Acetylation of loofa (<i>Luffa cylindrica</i>) sponge as immobilization carrier for bioprocesses involving cellulase. <i>Journal of Bioscience and Bioengineering</i> , 2007, 103, 311-317.	1.1	27
71	Development of novel method for screening microorganisms using symbiotic association between insect (<i>Coptotermes formosanus</i> Shiraki) and intestinal microorganisms. <i>Journal of Bioscience and Bioengineering</i> , 2007, 103, 358-367.	1.1	24
72	Influence of Feed Components on Symbiotic Bacterial Community Structure in the Gut of the Wood-Feeding Higher Termite <i>Nasutitermes takasagoensis</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2007, 71, 1244-1251.	0.6	50

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73	Development of an efficient method for screening microorganisms by using symbiotic association between <i>Nasutitermes takasagoensis</i> and intestinal microorganisms. <i>Applied Microbiology and Biotechnology</i> , 2007, 75, 1437-1446.	1.7	2
74	Influence of irradiance, dissolved oxygen concentration, and temperature on the growth of <i>Chlorella sorokiniana</i> . <i>Photosynthetica</i> , 2007, 45, 309-311.	0.9	113
75	Preparation of mixed alginate elicitors with high activity for the efficient production of 5â€²-phosphodiesterase by <i>Catharanthus roseus</i> cells. <i>Biotechnology Letters</i> , 2006, 28, 1567-1571.	1.1	9
76	Development of a quantitative method for determination of the optimal conditions for protoplast isolation from cultured plant cells. <i>Biotechnology Letters</i> , 2006, 28, 1687-1694.	1.1	7
77	Influence of the diet components on the symbiotic microorganisms community in hindgut of <i>Coptotermes formosanus</i> Shiraki. <i>Applied Microbiology and Biotechnology</i> , 2006, 71, 907-917.	1.7	64
78	Development of a novel system for producing ajmalicine and serpentine using direct culture of leaves in <i>Catharanthus roseus</i> intact plant. <i>Journal of Bioscience and Bioengineering</i> , 2005, 99, 208-215.	1.1	22
79	Symbiotic association in <i>Chlorella</i> culture. <i>FEMS Microbiology Ecology</i> , 2005, 51, 187-196.	1.3	139
80	Comparative Analyses of the Gene Expression Profiles of <i>Arabidopsis</i> Intact Plant and Cultured Cells. <i>Biotechnology Letters</i> , 2005, 27, 1097-1103.	1.1	10
81	Analysis of gene expression in yeast protoplasts using DNA microarrays and their application for efficient production of invertase and Î±-glucosidase. <i>Journal of Bioscience and Bioengineering</i> , 2004, 97, 169-183.	1.1	7
82	Analysis of Gene Expression in Yeast Protoplasts Using DNA Microarrays and Their Application for Efficient Production of Invertase and .ALPHA.-Glucosidase. <i>Journal of Bioscience and Bioengineering</i> , 2004, 97, 169-183.	1.1	0
83	Production of cell wall accumulative enzymes using immobilized protoplasts of <i>Catharanthus roseus</i> in agarose gel. <i>Biotechnology Letters</i> , 2003, 25, 1687-1693.	1.1	12
84	Efficient Paclitaxel Production using Protoplasts Isolated from Cultured Cells of <i>Taxus cuspidata</i> . <i>Planta Medica</i> , 2002, 68, 420-424.	0.7	27
85	Production of 5â€²-phosphodiesterase by <i>Catharanthus roseus</i> cells promoted by heat-degraded products generated from uronic acid. <i>Journal of Bioscience and Bioengineering</i> , 2002, 94, 154-159.	1.1	8
86	Title is missing!. <i>Biotechnology Letters</i> , 2002, 24, 1125-1129.	1.1	2
87	Production of 5'-phosphodiesterase by <i>Catharanthus roseus</i> cells promoted by heat-degraded products generated from uronic acid. <i>Journal of Bioscience and Bioengineering</i> , 2002, 94, 154-9.	1.1	4
88	Efficient production of saikosaponins in <i>Bupleurum falcatum</i> root fragments combined with signal transducers. <i>Applied Microbiology and Biotechnology</i> , 2001, 57, 482-488.	1.7	77
89	Synergistic effect of active oxygen species and alginate on chitinase production by <i>Wasabia japonica</i> cells and its application. <i>Journal of Bioscience and Bioengineering</i> , 2000, 89, 131-137.	1.1	15
90	Invertase production by <i>Saccharomyces cerevisiae</i> protoplasts immobilized in strontium alginate gel beads. <i>Journal of Bioscience and Bioengineering</i> , 2000, 89, 498-500.	1.1	14

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91	Title is missing!. , 1999, 13, 253-258.		5
92	Endogenous elicitor-like effects of alginate on physiological activities of plant cells. Applied Microbiology and Biotechnology, 1999, 52, 429-436.	1.7	88
93	Development of an apparatus for monitoring protoplast isolation from plant tissues based on both dielectric and optical methods. Journal of Bioscience and Bioengineering, 1999, 87, 762-768.	1.1	4
94	Alginate promotes production of various enzymes by Catharanthus roseus cells. Plant Cell Reports, 1998, 17, 243-247.	2.8	21
95	Indole alkaloids production by Catharanthus roseus protoplasts with artificial cell walls containing of guluronic acid rich alginate gel. Journal of Bioscience and Bioengineering, 1998, 85, 306-311.	0.9	30
96	Efficient production of chitinase by immobilized Wasabia japonica cells in double-layered gel fibers. Journal of Bioscience and Bioengineering, 1996, 81, 220-225.	0.9	28
97	Efficient production of chitinase by Wasabia japonica protoplasts immobilized in double-layered gel fibers. Journal of Bioscience and Bioengineering, 1996, 81, 394-399.	0.9	27
98	Promotion effect of alginate on chitinase production by Wasabia japonica. Biotechnology Letters, 1996, 10, 649.	0.5	20
99	Estimation of microbial cell concentration in suspension culture by the osmotic pressure measurement of culture broth. Biotechnology Letters, 1995, 9, 429-434.	0.5	5
100	Purification and characteristics of chitinase secreted by cultured Wasabia japonica cells. Journal of Bioscience and Bioengineering, 1995, 80, 148-152.	0.9	29
101	Measurement of viable plant cell and protoplast concentrations with specialized fluorometer. Journal of Bioscience and Bioengineering, 1994, 77, 517-521.	0.9	12
102	Development of an optical method for monitoring protoplast formation from cultured plant cells. Journal of Bioscience and Bioengineering, 1993, 75, 201-206.	0.9	10
103	Estimation of cell biomass in plant cell suspensions by the osmotic pressure measurement of culture broth. Journal of Bioscience and Bioengineering, 1993, 76, 501-504.	0.9	11
104	Measurement of fresh and dry densities of suspended plant cells and estimation of their water content. Journal of Bioscience and Bioengineering, 1992, 73, 490-496.	0.9	13
105	Turbidimetric measurement of cell biomass of plant cell suspensions. Journal of Bioscience and Bioengineering, 1992, 73, 130-134.	0.9	25
106	Comparison of growth, protein and carotenoid contents of some freshwater microalgae and the effects of urea and cultivation in a photobioreactor with reflective broth circulation guide on <i>Desmodesmus subspicatus</i> LC172266. Brazilian Journal of Chemical Engineering, 0, , 1.	0.7	5