

Tomohisa Katsuda

List of Publications by Year in descending order

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55
papers

1,195
citations

361296

20
h-index

377752

34
g-index

58
all docs

58
docs citations

58
times ranked

1458
citing authors

#	ARTICLE	IF	CITATIONS
1	Astaxanthin production by <i>Haematococcus pluvialis</i> under illumination with LEDs. <i>Enzyme and Microbial Technology</i> , 2004, 35, 81-86.	1.6	115
2	Effect of flashing light from blue light emitting diodes on cell growth and astaxanthin production of <i>Haematococcus pluvialis</i> . <i>Journal of Bioscience and Bioengineering</i> , 2006, 102, 442-446.	1.1	88
3	Effects of temperature on the astaxanthin productivity and light harvesting characteristics of the green alga <i>Haematococcus pluvialis</i> . <i>Journal of Bioscience and Bioengineering</i> , 2015, 119, 345-350.	1.1	86
4	Production of hydrogen by a hydrogenase-deficient mutant of <i>Rhodobacter capsulatus</i> . <i>Journal of Bioscience and Bioengineering</i> , 1998, 85, 470-475.	0.9	81
5	High efficiency production of astaxanthin by autotrophic cultivation of <i>Haematococcus pluvialis</i> in a bubble column photobioreactor. <i>Biochemical Engineering Journal</i> , 2008, 39, 575-580.	1.8	60
6	Surface grafting techniques on the improvement of membrane bioreactor: State-of-the-art advances. <i>Bioresource Technology</i> , 2018, 269, 489-502.	4.8	58
7	Light intensity distribution in the externally illuminated cylindrical photo-bioreactor and its application to hydrogen production by <i>Rhodobacter capsulatus</i> . <i>Biochemical Engineering Journal</i> , 2000, 5, 157-164.	1.8	43
8	Effects of nutrient supply methods and illumination with blue light emitting diodes (LEDs) on astaxanthin production by <i>Haematococcus pluvialis</i> . <i>Journal of Bioscience and Bioengineering</i> , 2004, 98, 452-456.	1.1	43
9	High efficiency production of astaxanthin in an airlift photobioreactor. <i>Journal of Bioscience and Bioengineering</i> , 2008, 106, 204-207.	1.1	40
10	Angiotensin-I converting enzyme (ACE) inhibitory mechanism of tripeptides containing aromatic residues. <i>Journal of Bioscience and Bioengineering</i> , 2008, 106, 310-312.	1.1	40
11	Fed-batch culture under illumination with blue light emitting diodes (LEDs) for astaxanthin production by <i>Haematococcus pluvialis</i> . <i>Journal of Bioscience and Bioengineering</i> , 2005, 100, 339-342.	1.1	38
12	Integration process for betacyanins extraction from peel and flesh of <i>Hylocereus polyrhizus</i> using liquid biphasic electric flotation system and antioxidant activity evaluation. <i>Separation and Purification Technology</i> , 2019, 209, 193-201.	3.9	34
13	Effects of cytoplasmic and periplasmic chaperones on secretory production of single-chain Fv antibody in <i>Escherichia coli</i> . <i>Journal of Bioscience and Bioengineering</i> , 2011, 111, 465-470.	1.1	33
14	Functional expression of single-chain Fv antibody in the cytoplasm of <i>Escherichia coli</i> by thioredoxin fusion and co-expression of molecular chaperones. <i>Protein Expression and Purification</i> , 2010, 70, 248-253.	0.6	31
15	New detection method for hydrogen gas for screening hydrogen-producing microorganisms using water-soluble wilkinson's catalyst derivative. <i>Journal of Bioscience and Bioengineering</i> , 2006, 102, 220-226.	1.1	30
16	Efficient production of an antibody Fab fragment using the baculovirusâ€“insect cell system. <i>Journal of Bioscience and Bioengineering</i> , 2010, 110, 577-581.	1.1	27
17	Production of Japanese encephalitis virus-like particles using the baculovirusâ€“insect cell system. <i>Journal of Bioscience and Bioengineering</i> , 2012, 114, 657-662.	1.1	27
18	Production of Single-Chain Variable Fragment Antibody (scFv) in Fed-Batch and Continuous Culture of <i>Pichia pastoris</i> by Two Different Methanol Feeding Methods. <i>Journal of Bioscience and Bioengineering</i> , 2007, 104, 403-407.	1.1	26

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19	Effect of light intensity and frequency of flashing light from blue light emitting diodes on astaxanthin production by <i>Haematococcus pluvialis</i> . <i>Journal of Bioscience and Bioengineering</i> , 2008, 105, 216-220.	1.1	26
20	Optimization of silica-based media for antibody purification by protein A affinity chromatography. <i>Journal of Chromatography A</i> , 2007, 1161, 36-40.	1.8	25
21	Characteristics of neutralization of acids by newly isolated fungal cells. <i>Journal of Bioscience and Bioengineering</i> , 2004, 97, 54-58.	1.1	21
22	Efficient production of Japanese encephalitis virus-like particles by recombinant lepidopteran insect cells. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 1071-1079.	1.7	20
23	Efficient production of antibody Fab fragment by transient gene expression in insect cells. <i>Journal of Bioscience and Bioengineering</i> , 2017, 124, 221-226.	1.1	16
24	Production of Antibody Fragments in <i>Escherichia coli</i> . <i>Methods in Molecular Biology</i> , 2012, 907, 305-324.	0.4	15
25	Tandem multimer expression of angiotensin converting enzyme inhibitory peptide in <i>Escherichia coli</i> . <i>Biotechnology Journal</i> , 2009, 4, 1345-1356.	1.8	13
26	Production of influenza virus-like particles using recombinant insect cells. <i>Biochemical Engineering Journal</i> , 2020, 163, 107757.	1.8	13
27	Light Attenuation in Suspension of the Purple Bacterium <i>Rhodobacter capsulatus</i> and the Green Alga <i>Chlamydomonas reinhardtii</i> . <i>Journal of Chemical Engineering of Japan</i> , 2002, 35, 428-435.	0.3	12
28	Fragmentation of Angiotensin-I Converting Enzyme Inhibitory Peptides from Bonito Meat Under Intestinal Digestion Conditions and their Characterization. <i>Food and Bioproducts Processing</i> , 2006, 84, 135-138.	1.8	12
29	ACE Inhibitory Activity and Characteristics of Tri-Peptides Obtained from Bonito Protein. <i>Journal of Chemical Engineering of Japan</i> , 2007, 40, 59-62.	0.3	11
30	Degradation of cyanuric acid in soil by <i>Pseudomonas</i> sp. NRRL B-12227 using bioremediation with self-immobilization system. <i>Journal of Bioscience and Bioengineering</i> , 2006, 102, 206-209.	1.1	10
31	Effective utilization of transmitted light for astaxanthin production by <i>Haematococcus pluvialis</i> . <i>Journal of Bioscience and Bioengineering</i> , 2006, 102, 97-101.	1.1	10
32	Adenovirus vector production using low-multiplicity infection of 293 cells. <i>Cytotechnology</i> , 2009, 59, 153-160.	0.7	9
33	Immobilization of <i>Escherichia coli</i> cells using polyethyleneimine-coated porous support particles for l-aspartic acid production. <i>Biochemical Engineering Journal</i> , 2009, 46, 65-68.	1.8	9
34	Production of single-chain Fv-Fc fusion protein in stably transformed insect cells. <i>Biochemical Engineering Journal</i> , 2012, 67, 77-82.	1.8	9
35	Effects of Light Intensity Distribution on Growth of <i>Rhodobacter capsulatus</i> . <i>Biotechnology Progress</i> , 2004, 20, 998-1000.	1.3	8
36	Improvement of growth stability of photosynthetic bacterium <i>Rhodobacter capsulatus</i> . <i>Journal of Bioscience and Bioengineering</i> , 2005, 100, 672-677.	1.1	8

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37	Application of regularized alternating least squares and independent component analysis to HPLC-DAD data of <i>Haematococcus pluvialis</i> metabolites. <i>Biochemical Engineering Journal</i> , 2006, 32, 149-156.	1.8	7
38	Cytoplasmic production of soluble and functional single-chain Fv-Fc fusion protein in <i>Escherichia coli</i> . <i>Biochemical Engineering Journal</i> , 2011, 53, 253-259.	1.8	6
39	Production of an antibody Fab fragment using 2A peptide in insect cells. <i>Journal of Bioscience and Bioengineering</i> , 2020, 130, 205-211.	1.1	6
40	Size Characteristics of Liposomes Formed in a Micro-Tube. <i>Journal of Chemical Engineering of Japan</i> , 2008, 41, 739-743.	0.3	5
41	Effects of Ethanolamine as a Nitrogen Source on Hydrogen Production by <i>Rhodobacter capsulatus</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2000, 64, 248-253.	0.6	4
42	Single nucleotide polymorphism detection method by temperature-gradient affinity chromatography using a single-stranded oligo-DNA coupled column. <i>Journal of Chromatography A</i> , 2006, 1123, 182-188.	1.8	3
43	A Numerical Model for the Quantification of Light/Dark Cycles in Microalgal Cultures: Air-Lift and Bubble-Column Photobioreactor Analysis by Means of Computational Fluid Dynamics. <i>Journal of Chemical Engineering of Japan</i> , 2015, 48, 61-71.	0.3	3
44	Refolding of single-chain Fv by use of an antigen-coupled column. <i>Biochemical Engineering Journal</i> , 2009, 44, 289-291.	1.8	2
45	Effects of lithium on the secretory production of recombinant antibody from insect cells. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2019, 55, 1-6.	0.7	2
46	Effects of autophagy inducers on recombinant antibody production in insect cells. <i>Cytotechnology</i> , 2021, 73, 299-305.	0.7	2
47	Characterization of Continuous Refolding Apparatus Using Different Mixing Methods.. <i>Journal of Chemical Engineering of Japan</i> , 2002, 35, 963-968.	0.3	2
48	Neutralization of Acids by Microorganisms Co-Immobilized with <i>Bacillus subtilis</i> in a Shallow Layer of Model Soil. <i>Journal of Chemical Engineering of Japan</i> , 2004, 37, 1445-1451.	0.3	2
49	Control of Aggregate Formation in Refolding of Carbonic Anhydrase at High Urea Concentrations and Effects of Urea Removal.. <i>Journal of Chemical Engineering of Japan</i> , 2001, 34, 743-747.	0.3	1
50	Immobilization of 293 cells using porous support particles for adenovirus vector production. <i>Cytotechnology</i> , 2010, 62, 293-300.	0.7	1
51	Baculovirus display of functional antibody Fab fragments. <i>Cytotechnology</i> , 2015, 67, 741-747.	0.7	1
52	Visualization of liposome production in a micro-tube. <i>Journal of Bioscience and Bioengineering</i> , 2009, 108, S22.	1.1	0
53	Production of an antibody fragment by transient gene expression in insect cells. <i>New Biotechnology</i> , 2014, 31, S186.	2.4	0
54	Efficient antibody production by transient gene expression in insect cells. <i>New Biotechnology</i> , 2016, 33, S200-S201.	2.4	0

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55	Elution Behavior of DNAs in Temperature-Gradient Affinity Chromatography for Single Nucleotide Polymorphism Detection. <i>Journal of Chemical Engineering of Japan</i> , 2006, 39, 1104-1107.	0.3	0