Yoshitoshi Nakamura

List of Publications by Year
in descending order

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121 papers	2,767 citations	172207 29 h-index	214527 47 g-index
122 all docs	122 docs citations	122 times ranked	3007 citing authors

#	Article	IF	Citations
1	Utilization of various fruit juices as carbon source for production of bacterial cellulose by Acetobacter xylinum NBRC 13693. Carbohydrate Polymers, 2009, 76, 333-335.	5.1	266
2	Alkaline peroxide pretreatment for efficient enzymatic saccharification of bamboo. Carbohydrate Polymers, 2010, 79, 914-920.	5.1	136
3	Evaluation of epoxy resins synthesized from steam-exploded bamboo lignin. Industrial Crops and Products, 2013, 43, 757-761.	2.5	135
4	Epoxy resin synthesis using low molecular weight lignin separated from various lignocellulosic materials. International Journal of Biological Macromolecules, 2015, 74, 413-419.	3.6	111
5	Effects of fungal pretreatment and steam explosion pretreatment on enzymatic saccharification of plant biomass. Biotechnology and Bioengineering, 1995, 48, 719-724.	1.7	99
6	Methane production from steam-exploded bamboo. Journal of Bioscience and Bioengineering, 2004, 97, 426-428.	1.1	89
7	Alcohol fermentation of starch by a genetic recombinant yeast having glucoamylase activity. , 1997, 53, 21-25.		70
8	Production of antibacterial violet pigment by psychrotropic bacterium RT102 strain. Biotechnology and Bioprocess Engineering, 2003, 8, 37-40.	1.4	69
9	Bioconversion of lignocellulosic waste from selected dumping sites in Dar es Salaam, Tanzania. Biodegradation, 2005, 16, 493-499.	1.5	63
10	Ethanol production from paper sludge by immobilized Zymomonas mobilis. Biochemical Engineering Journal, 2008, 42, 314-319.	1.8	60
11	Production of methane gas from Japanese cedar chips pretreated by various delignification methods. Biochemical Engineering Journal, 2006, 28, 30-35.	1.8	55
12	Novel extraction method of antioxidant compounds from Sasa palmata (Bean) Nakai using steam explosion. Process Biochemistry, 2007, 42, 1449-1453.	1.8	55
13	Lignin-degrading enzyme production by Bjerkandera adusta immobilized on polyurethane foam. Journal of Bioscience and Bioengineering, 1999, 88, 41-47.	1.1	51
14	Characterization of the steam-exploded spent Shiitake mushroom medium and its efficient conversion to ethanol. Bioresource Technology, 2011, 102, 10052-10056.	4.8	51
15	Functionalization of the active ingredients of Japanese green tea (Camellia sinensis) for the synthesis of bio-based epoxy resin. Industrial Crops and Products, 2015, 73, 63-72.	2.5	49
16	Enhanced ethanol production from enzymatically treated steam-exploded rice straw using extractive fermentation. Journal of Chemical Technology and Biotechnology, 2001, 76, 879-884.	1.6	47
17	Waste reduction system for production of useful materials from un-utilized bamboo using steam explosion followed by various conversion methods. Biochemical Engineering Journal, 2005, 23, 131-137.	1.8	46
18	Surface carbohydrate analysis and bioethanol production of sugarcane bagasse pretreated with the white rot fungus, Ceriporiopsis subvermispora and microwave hydrothermolysis. Bioresource Technology, 2011, 102, 9942-9946.	4.8	46

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19	Effect of steam explosion pretreatment with ultra-high temperature and pressure on effective utilization of softwood biomass. Biochemical Engineering Journal, 2012, 60, 25-29.	1.8	46
20	Isolation of a psychrotrophic bacterium from the organic residue of a water tank keeping rainbow trout and antibacterial effect of violet pigment produced from the strain. Biochemical Engineering Journal, 2002, 12, 79-86.	1.8	42
21	Acetoneâ€“butanolâ€“ethanol production by separate hydrolysis and fermentation (SHF) and simultaneous saccharification and fermentation (SSF) methods using acorns and wood chips of Quercus acutissima as a carbon source. Industrial Crops and Products, 2014, 62, 286-292.	2.5	40
22	Comparison of choline acetate ionic liquid pretreatment with various pretreatments for enhancing the enzymatic saccharification of sugarcane bagasse. Industrial Crops and Products, 2015, 71, 147-152.	2.5	40
23	Development of efficient system for ethanol production from paper sludge pretreated by ball milling and phosphoric acid. Carbohydrate Polymers, 2010, 79, 250-254.	5.1	38
24	Saccharification and alcohol fermentation in starch solution of steam-exploded potato. Applied Biochemistry and Biotechnology, 1998, 69, 177-189.	1.4	36
25	Effective enzyme saccharification and ethanol production from Japanese cedar using various pretreatment methods. Journal of Bioscience and Bioengineering, 2010, 110, 79-86.	1.1	36
26	Lignin Peroxidase Production by Phanerochaete Chrysosporium Immobilized on Polyurethane Foam.. Journal of Chemical Engineering of Japan, 1997, 30, 1-6.	0.3	34
27	Ethanol production from disposable aspen chopsticks using delignification pretreatments. Carbohydrate Polymers, 2011, 85, 196-200.	5.1	34
28	Chemical characteristics and ethanol fermentation of the cellulose component in autohydrolyzed bagasse. Biotechnology and Bioprocess Engineering, 2005, 10, 346-352.	1.4	33
29	Cholinium ionic liquid/cosolvent pretreatment for enhancing enzymatic saccharification of sugarcane bagasse. Industrial Crops and Products, 2016, 86, 113-119.	2.5	33
30	Extraction method for increasing antioxidant activity of raw garlic using steam explosion. Biochemical Engineering Journal, 2013, 73, 1-4.	1.8	32
31	Anaerobic fermentation of woody biomass treated by various methods. Biotechnology and Bioprocess Engineering, 2003, 8, 179-182.	1.4	30
32	Ozonolysis mechanism of lignin model compounds and microbial treatment of organic acids produced. Water Science and Technology, 2004, 50, 167-172.	1.2	30
33	Direct hydrolysis of cellulose to glucose using ultra-high temperature and pressure steam explosion. Carbohydrate Polymers, 2012, 89, 298-301.	5.1	28
34	Chemical characteristics and enzymatic saccharification of lignocellulosic biomass treated using high-temperature saturated steam: Comparison of softwood and hardwood. Bioresource Technology, 2015, 182, 245-250.	4.8	28
35	Low energy steam explosion treatment of plant biomass. Journal of Chemical Technology and Biotechnology, 2001, 76, 139-146.	1.6	27
36	Mathematical model of direct ethanol production from starch in immobilized recombinant yeast culture. Biochemical Engineering Journal, 2004, 21, 93-101.	1.8	23

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37	Isolation and identification of an angiotensin I-converting enzyme inhibitory peptide from pearl oyster (Pinctada fucata) shell protein hydrolysate. Process Biochemistry, 2019, 77, 137-142.	1.8	23
38	Production of cellulose nanofibers from Aspen and Bode chopsticks using a high temperature and high pressure steam treatment combined with milling. Carbohydrate Polymers, 2018, 194, 303-310.	5.1	22
39	Total Biorefinery Process of Lignocellulosic Waste Using Steam Explosion Followed by Water and Acetone Extractions. Waste and Biomass Valorization, 2018, 9, 2423-2432.	1.8	22
40	Development of optimal culture method of Sparassis crispa mycelia and a new extraction method of antineoplastic constituent. Biochemical Engineering Journal, 2006, 30, 109-113.	1.8	21
41	Ethanol production from artificial domestic household waste solubilized by steam explosion. Biotechnology and Bioprocess Engineering, 2003, 8, 205-209.	1.4	20
42	Degradation of reactive dyes by ozonation and oxalic acid-assimilating bacteria isolated from soil. Biodegradation, 2008, 19, 489-494.	1.5	20
43	Conversion of steam-exploded cedar into ethanol using simultaneous saccharification, fermentation and detoxification process. Bioresource Technology, 2015, 176, 203-209.	4.8	20
44	Mathematical model for ethanol production from mixed sugars byPichia stipitis. Journal of Chemical Technology and Biotechnology, 2001, 76, 586-592.	1.6	19
45	Extraction of arbutin and its comparative content in branches, leaves, stems, and fruits of Japanese pear Pyrus pyrifolia cv. Kousui. Bioscience, Biotechnology and Biochemistry, 2014, 78, 874-877.	0.6	19
46	Resinification of Woody Lignin and Its Characteristics on Safety and Biodegradation.. Journal of Chemical Engineering of Japan, 2001, 34, 1309-1312.	0.3	18
47	Biodegradation of phenol in seawater using bacteria isolated from the intestinal contents of marine creatures. International Biodeterioration and Biodegradation, 2012, 69, 113-118.	1.9	18
48	Biodegradation of phenol in the presence of heavy metals. Journal of Chemical Technology and Biotechnology, 2000, 75, 137-142.	1.6	17
49	Glucose and Valuable Chemicals Production from Cotton Waste Using Hydrothermal Method. Waste and Biomass Valorization, 2019, 10, 599-607.	1.8	17
50	Steam explosion treatment for ethanol production from branches pruned from pear trees by simultaneous saccharification and fermentation. Bioscience, Biotechnology and Biochemistry, 2014, 78, 160-166.	0.6	15
51	Efficient Extraction of Starch from Microalgae Using Ultrasonic Homogenizer and Its Conversion into Ethanol by Simultaneous Saccharification and Fermentation. Natural Resources, 2012, 03, 175-179.	0.2	15
52	Growth inhibitory and lethal effects of ethanol onEscherichia coli. Biotechnology and Bioengineering, 1987, 29, 742-746.	1.7	14
53	Biodegradation of endocrine-disrupting phenolic compounds using laccase followed by activated sludge treatment. Biotechnology and Bioprocess Engineering, 2003, 8, 294-298.	1.4	14
54	Effects of Hydrothermal Methods such as Steam Explosion and Microwave Irradiation on Extraction of Water Soluble Antioxidant Materials from Garlic Husk. Waste and Biomass Valorization, 2019, 10, 3397-3402.	1.8	14

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55	High Concentration Ethanol Production from Mixed Softwood Sawdust Waste. Waste and Biomass Valorization, 2019, 10, 433-439.	1.8	13
56	Ethanol Production from Sugarcane Bagasse Using Pressurized Microwave Treatment with Inorganic Salts and Salt-Tolerant Yeast. Waste and Biomass Valorization, 2020, 11, 2001-2007.	1.8	12
57	Microwave-assisted glucose production from bode (Styrax tonkinensis) woody biomass for bioethanol production. Journal of Material Cycles and Waste Management, 2019, 21, 201-204.	1.6	11
58	Microwave-Assisted Hydrolysis of Cotton Waste to Glucose in Combination with the Concentrated Sulfuric Acid Impregnation Method. Waste and Biomass Valorization, 2020, 11, 4279-4287.	1.8	11
59	Ethanol production from raw starch by a recombinant yeast having saccharification and fermentation activities. Journal of Chemical Technology and Biotechnology, 2002, 77, 1101-1106.	1.6	10
60	Bioremediation of phenolic compounds having endocrine-disrupting activity using ozone oxidation and activated sludge treatment. Biotechnology and Bioprocess Engineering, 2004, 9, 151-155.	1.4	10
61	Lignin-Degrading Enzymes from Mycelial Cultures of Basidiomycete Fungi Isolated in Tanzania. Journal of Chemical Engineering of Japan, 2004, 37, 113-118.	0.3	10
62	Production of Eco-refinery Pulp from Moso Bamboo Using Steam Treatment Followed by Milling Treatment. Waste and Biomass Valorization, 2020, 11, 6139-6146.	1.8	10
63	Utilization of Steam-Treated and Milling-Treated Lignin from Moso Bamboo as Curing Agent of Epoxy Resin. Waste and Biomass Valorization, 2021, 12, 6261-6272.	1.8	10
64	Modification of Rice Straw by Steam Explosion and Enzymatic Saccarification of Steam-Exploded Products.. Kagaku Kogaku Ronbunshu, 1991, 17, 504-510.	0.1	9
65	Title is missing!. Biotechnology Letters, 2002, 24, 1743-1747.	1.1	9
66	Mathematical model for growth process of a recombinant yeast having saccharification and fermentation activities. Journal of Chemical Technology and Biotechnology, 2003, 78, 985-994.	1.6	9
67	A novel treatment system of wastewater contaminated with copper by a moss. Biochemical Engineering Journal, 2006, 28, 295-298.	1.8	9
68	Purification of seawater contaminated with undegradable aromatic ring compounds using ozonolysis followed by titanium dioxide treatment. Marine Pollution Bulletin, 2008, 57, 53-58.	2.3	9
69	Mathematical model for diauxic growth of microorganisms in mixed substrate medium.. Journal of Chemical Engineering of Japan, 1984, 17, 478-485.	0.3	8
70	Effect of explosive operation for effective utilization of biomass.. Kagaku Kogaku Ronbunshu, 1986, 12, 1-7.	0.1	8
71	Mathematical modeling for diauxic growth in immobilized cell culture. Journal of Bioscience and Bioengineering, 1994, 78, 361-367.	0.9	8
72	Total utilization of Japanese pear tree prunings: extraction of arbutin and production of bioethanol. Journal of Material Cycles and Waste Management, 2016, 18, 385-392.	1.6	8

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73	Antioxidant activity of water extract from bamboo by high-temperature and high-pressure steam treatment. Biomass Conversion and Biorefinery, 2023, 13, 3809-3817.	2.9	8
74	Breeding and Cultivation of Glucoamylase-Producing Yeast with Inactivation of MAT Locus.. Journal of Chemical Engineering of Japan, 1999, 32, 424-430.	0.3	8
75	Microbial treatment of kraft pulp wastewater pretreated with ozone. Water Science and Technology, 1997, 35, 277-282.	1.2	8
76	Efficient production by Escherichia coli of recombinant protein using salting-out effect protecting against proteolytic degradation. Biotechnology Letters, 2003, 25, 779-782.	1.1	7
77	Degradation of phenol in seawater using a novel microorganism isolated from the intestine of Aplysia kurodai. International Biodeterioration and Biodegradation, 2007, 59, 252-254.	1.9	7
78	Ozonolysis mechanism of lignin model compounds and microbial treatment of organic acids produced. Water Science and Technology, 2004, 50, 167-72.	1.2	7
79	Stability analysis of continuous culture in diauxic growth. Journal of Bioscience and Bioengineering, 1996, 81, 429-436.	0.9	6
80	Degradation of Kenaf Core by Steam Explosion and Saccharification for Useful Utilization of Biowaste.. Journal of Chemical Engineering of Japan, 2001, 34, 549-552.	0.3	6
81	Effect of repressor gene on stability of bioprocess with continuous conversion of starch into ethanol using recombinant yeast. Biochemical Engineering Journal, 2004, 18, 133-141.	1.8	6
82	Degradation of 2,4-Dichlorophenoxyacetic Acid (2,4-D) by Ozonation and TiO2/UV Treatment. Journal of Chemical Engineering of Japan, 2007, 40, 378-384.	0.3	6
83	Bioconversion of Soy Sauce Residue Treated with Steam Explosion into Ethanol by Meicelase and Mucor indicus. Journal of Food Technology, 2010, 8, 187-190.	0.5	6
84	Bioprocess development of the production of the mutant P-219-L human d-amino acid oxidase for high soluble fraction expression in recombinant Escherichia coli. Biochemical Engineering Journal, 2010, 52, 236-247.	1.8	5
85	Effects of washing with water on enzymatic saccharification and d-lactic acid production from steam-exploded sugarcane bagasse. Journal of Material Cycles and Waste Management, 2012, 14, 234-240.	1.6	5
86	Lignin as a Coating and Curing Agent on Biodegradable Epoxy Resins. , 2020, , 195-206.		5
87	Preparation of Biopolymer Composite Using Cedarâ€Derived Cellulose Nanofibers. Waste and Biomass Valorization, 2021, 12, 6245.	1.8	5
88	Dynamic behavior of Bacillus sp. P77 growth by exchange of substrates and simulation by diauxic model.. Kagaku Kogaku Ronbunshu, 1989, 15, 754-760.	0.1	4
89	Development of effective utilization method of lignin from rice straw. Transactions of the Materials Research Society of Japan, 2008, 33, 1153-1157.	0.2	4
90	Production of D-lactic acid from sugarcane bagasse using steam-explosion. Journal of Physics: Conference Series, 2012, 352, 012054.	0.3	4

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91	Microwave-Assisted Hydrolysis of Cellulose in Towel and Wheat Straw Using Freeze-Thawing with NaOH. Waste and Biomass Valorization, 2021, 12, 3331-3339.	1.8	4
92	Effect of Activated Cow Dung as Inoculum on Methane Production of Steam-Exploded Rice Husks. Waste and Biomass Valorization, 2021, 12, 5019-5028.	1.8	4
93	Production and antioxidant activity of phenolic compounds from indigo plant waste using pressurized microwave-assisted hydrothermal treatment followed by water extraction. Biomass Conversion and Biorefinery, 2023, 13, 6787-6795.	2.9	4
94	Extraction, separation, and utilization of components contained in waste bamboo by pressurized microwave-assisted ethanol solvent treatment. Biomass Conversion and Biorefinery, 2023, 13, 8315-8326.	2.9	4
95	Mechanistic Studies on Ozonolysis of Lignin Wastewater Based on Ozonolysis of Lignin Model Compounds. Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal, 1989, 1989, 722-727.	0.1	3
96	Development of a Novel Pulping Method without Generating Wastewater Using a Sodium Hydroxide Pretreatment and Steam Explosion. Journal of Chemical Engineering of Japan, 2005, 38, 158-161.	0.3	3
97	Evaluation of buckwheat and barley tea wastes as ethanol fermentation substrates. Journal of Material Cycles and Waste Management, 2012, 14, 206-211.	1.6	3
98	Acceleration of <i>Hericium erinaceum</i> mycelial growth in submerged culture using yogurt whey as an alternative nitrogen source. Advances in Bioscience and Biotechnology (Print), 2012, 03, 828-832.	0.3	3
99	Breeding and Incubation of Recombinant Escherichia coli Having Overexpression System of Cloned Gene for Effective Production of Glucoamylase.. Kagaku Kogaku Ronbunshu, 2000, 26, 687-692.	0.1	2
100	Determination of Cu, Pb, Fe, and Zn in Plant Component Polymers of a Hyperaccumulating Plant. Analytical Sciences, 2005, 21, 1553-1556.	0.8	2
101	MODEL OF THE CONTINUOUS PREFERMENTATION PROCESS IN CHEESE MANUFACTURE AND STABILITY ANALYSIS OF STEADY STATE. Journal of Food Process Engineering, 2007, 30, 522-537.	1.5	2
102	Biorefinery System of Lignocellulosic Biomass Using Steam Explosion. , 0, , .		2
103	Degradation Mechanism of Kraft Pulp Wastewater with Ozone and Microbial Degradation of Organic Acids Produced.. Journal of Environmental Chemistry, 2001, 11, 43-49.	0.1	2
104	Cured epoxy resin synthesized using acetone-soluble lignin and ligno-p-cresol obtained from steam-exploded wheat straw. Biomass Conversion and Biorefinery, 2023, 13, 10495-10504.	2.9	2
105	Degradation of lignin in sulfite pulp wastewater by ozone.. Kagaku Kogaku Ronbunshu, 1985, 11, 247-252.	0.1	1
106	A mechanism of ozonolysis of veratrole and guaiacol.. Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal, 1986, 1986, 545-551.	0.1	1
107	Expression of Degradation Rate in Veratrole and Guaiacol of Lignin Model Compounds by Ozonolysis.. Journal of Japan Society on Water Environment, 1994, 17, 40-49.	0.1	1
108	Recombinant Protein Production by Escherichia coli BL21 (DE3) [pET-12-STA1] Using a Bioreactor with Cross-Flow Filtration.. Journal of Chemical Engineering of Japan, 2003, 36, 1480-1487.	0.3	1

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109	Effect of pulsed discharges on mycelium growth of Sparassis crispa. , 2015, , .		1
110	Effects of Tween series and agar additives on mycelia biomass and Î²-glucan production by Hericium erinaceus in submerged culture. Biomass Conversion and Biorefinery, 2023, 13, 3135-3141.	2.9	1
111	Efficient conversion of moso bamboo components into glucose, lignocellulose nanofiber, and low-molecular-weight lignin through deep eutectic solvent treatment. Biomass Conversion and Biorefinery, 0, , 1.	2.9	1
112	Phytoremediation of Soil Contaminated with Heavy Metals and Recovery of Valuable Metals. Kagaku Kogaku Ronbunshu, 2005, 31, 476-480.	0.1	1
113	Study on Treatment System for Degradation of Phenol in the Presence of Copper Ion by Immobilized Cell.. Journal of Environmental Chemistry, 2002, 12, 325-331.	0.1	1
114	Steam Explosion Pretreatment: Biomass Waste Utilization for Methane Production. , 0, , .		1
115	Effect of repressor gene on stability of bioprocess with continuous conversion of starch into ethanol using recombinant yeast. Biochemical Engineering Journal, 2003, 18, 133-133.	1.8	0
116	EXAMINATION OF INCUBATION CONDITIONS FOR PRODUCTION OF HERICIUM ERINACEUM. International Journal of Modern Physics Conference Series, 2012, 06, 733-738.	0.7	0
117	Purification of Kahokugata Lagoonal Water by Reed Bed System.. Journal of Environmental Chemistry, 2001, 11, 447-454.	0.1	0
118	Study on Changes of Radionuclides Concentration in Pine Needles on Pref. Ishikawa and Its Transfer Process during Two Decades.. Journal of Environmental Chemistry, 2002, 12, 809-815.	0.1	0
119	Biodegradation of Heavy Oil Spilled from the Russian Tanker, Nakhodka, on the Sea of Japan Coast.. Journal of Environmental Chemistry, 1998, 8, 787-796.	0.1	0
120	Microbial Degradation of Phenol in the Presence of Heavy Metal Ion by Immobilized Bacterial Cells.. Journal of Environmental Chemistry, 1999, 9, 581-587.	0.1	0
121	Efficiency of Î²-glucan production by Sparassis crispa depends on mycelium shape. Biomass Conversion and Biorefinery, 2024, 14, 1939-1947.	2.9	0