Tomoaki Minowa

List of Publications by Year in descending order

68 papers	4,532 citations	172207 29 h-index	106150 65 g-index
68 all docs	68 docs citations	68 times ranked	3620 citing authors

#	Article	IF	Citations
1	Biomass gasification in near- and super-critical water: Status and prospects. Biomass and Bioenergy, 2005, 29, 269-292.	2.9	648
2	Cellulose decomposition in hot-compressed water with alkali or nickel catalyst. Journal of Supercritical Fluids, 1998, 13, 253-259.	1.6	342
3	Co-gasification of woody biomass and coal with air and steam. Fuel, 2007, 86, 684-689.	3.4	248
4	Wet disk milling pretreatment without sulfuric acid for enzymatic hydrolysis of rice straw. Bioresource Technology, 2009, 100, 2706-2711.	4.8	229
5	Renewable Diesel Production from the Hydrotreating of Rapeseed Oil with Pt/Zeolite and NiMo/Al₂O₃ Catalysts. Industrial & Engineering Chemistry Research, 2011, 50, 2791-2799.	1.8	198
6	Thermochemical liquefaction of indonesian biomass residues. Biomass and Bioenergy, 1998, 14, 517-524.	2.9	184
7	Fundamental design of a continuous biomass gasification process using a supercritical water fluidized bed. International Journal of Hydrogen Energy, 2004, 29, 701-707.	3.8	181
8	Hydrogen production from woody biomass by steam-gasification using a <mml:math altimg="si14.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/co	2.9	180
9	Hydrotreatment of Vegetable Oils to Produce Bio-Hydrogenated Diesel and Liquefied Petroleum Gas Fuel over Catalysts Containing Sulfided Niâ€“Mo and Solid Acids. Energy & Fuels, 2011, 25, 4675-4685.	2.5	180
10	Effect of woody biomass components on air-steam gasification. Biomass and Bioenergy, 2005, 28, 69-76.	2.9	170
11	Liquefaction and Gasification of Cellulose with Na2CO3and Ni in Subcritical Water at 350 Â°C. Industrial & Engineering Chemistry Research, 2004, 43, 2454-2463.	1.8	150
12	Amount, availability, and potential use of rice straw (agricultural residue) biomass as an energy resource in Japan. Biomass and Bioenergy, 2005, 29, 347-354.	2.9	131
13	Hydrogen production from cellulose using a reduced nickel catalyst. Catalysis Today, 1998, 45, 411-416.	2.2	130
14	Decomposition of Cellulose and Glucose in Hot-Compressed Water under Catalyst-Free Conditions.. Journal of Chemical Engineering of Japan, 1998, 31, 131-134.	0.3	126
15	Simultaneous removal of H2S and COS using activated carbons and their supported catalysts. Catalysis Today, 2005, 104, 94-100.	2.2	100
16	Catalytic hydrothermal gasification of cellulose and glucose. International Journal of Hydrogen Energy, 2008, 33, 981-990.	3.8	97
17	Oil production from garbage by thermochemical liquefaction. Biomass and Bioenergy, 1995, 8, 117-120.	2.9	95
18	Hydrotreatment of Jatropha Oil to Produce Green Diesel over Trifunctional Niâ€“Mo/SiO2â€“Al2O3 Catalyst. Chemistry Letters, 2009, 38, 552-553.	0.7	85

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19	Environmental and economic analysis of methanol production process via biomass gasification. Fuel, 2008, 87, 1422-1427.	3.4	83
20	Hydrogen Production from Cellulose in Hot Compressed Water Using Reduced Nickel Catalyst: Product Distribution at Different Reaction Temperatures.. Journal of Chemical Engineering of Japan, 1998, 31, 488-491.	0.3	80
21	Gasification of Catalyst-Suspended Chicken Manure in Supercritical Water. Journal of Chemical Engineering of Japan, 2008, 41, 433-440.	0.3	55
22	Production of Bio-Hydrogenated Diesel by Hydrotreatment of High-Acid-Value Waste Cooking Oil over Ruthenium Catalyst Supported on Al-Polyoxocation-Pillared Montmorillonite. Catalysts, 2012, 2, 171-190.	1.6	51
23	Hydrogen Production from Wet Cellulose by Low Temperature Gasification Using a Reduced Nickel Catalyst. Chemistry Letters, 1995, 24, 937-938.	0.7	50
24	Behavior of Inorganic Elements in Poultry Manure during Supercritical Water Gasification. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2008, 87, 731-736.	0.2	49
25	Net energy analysis of bioethanol production system from high-yield rice plant in Japan. Applied Energy, 2010, 87, 2164-2168.	5.1	49
26	Thermochemical liquidization and anaerobic treatment of kitchen garbage. Journal of Bioscience and Bioengineering, 1997, 83, 451-455.	0.9	41
27	Recovery of activated carbon catalyst, calcium, nitrogen and phosphate from effluent following supercritical water gasification of poultry manure. Bioresource Technology, 2009, 100, 4884-4886.	4.8	38
28	Hot Compressed Water Treatmentfor Production of Charcoal from Wood.. Journal of Chemical Engineering of Japan, 2002, 35, 1020-1023.	0.3	35
29	Gasification Rate of Various Biomass Feedstocks in Supercritical Water. Journal of the Japan Petroleum Institute, 2013, 56, 1-10.	0.4	33
30	Potential for rice straw ethanol production in the Mekong Delta, Vietnam. Renewable Energy, 2015, 74, 456-463.	4.3	31
31	Pinch analysis for bioethanol production process from lignocellulosic biomass. Applied Thermal Engineering, 2011, 31, 3332-3336.	3.0	28
32	Liquefaction of ammonia and cellulose: effect of nitrogen/carbon ratio in the feedstock. Biomass and Bioenergy, 1999, 16, 377-383.	2.9	27
33	Estimation of the potential of rice straw for ethanol production and the optimum facility size for different regions in Vietnam. Applied Energy, 2012, 93, 205-211.	5.1	27
34	Thermochemical liquidization of dewatered sewage sludge. Biomass and Bioenergy, 1993, 4, 243-248.	2.9	26
35	Hydrothermal Reaction of Glucose and Glycine as Model Compounds of Biomass. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2004, 83, 794-798.	0.2	26
36	Detailed Analysis of Heat and Mass Balance for Supercritical Water Gasification. Journal of Chemical Engineering of Japan, 2008, 41, 817-828.	0.3	24

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37	Phase Changing of Garbage from Solid to Liquid Slurry by Thermal Liquidization.. Journal of Chemical Engineering of Japan, 1995, 28, 727-731.	0.3	23
38	Application of the severity parameter for predicting viscosity during hydrothermal processing of dewatered sewage sludge for a commercial PFBC plant. Bioresource Technology, 2010, 101, 2043-2045.	4.8	22
39	Bioethanol Production from Lignocellulosic Biomass Requiring No Sulfuric Acid: Mechanochemical Pretreatment and Enzymic Saccharification. Journal of the Japan Petroleum Institute, 2008, 51, 264-273.	0.4	21
40	Reaction of d-glucose in water at high temperatures (410Â°C) and pressures (180MPa) for the production of dyes and nano-particles. Journal of Supercritical Fluids, 2011, 56, 41-47.	1.6	21
41	A kinetic study of in situ CO2 removal gasification of woody biomass for hydrogen production. Biomass and Bioenergy, 2007, 31, 556-562.	2.9	20
42	Effect of Pressure on Low Temperature Gasification of Wet Cellulose into Methane Using Reduced Nickel Catalyst and Sodium Carbonate. Chemistry Letters, 1995, 24, 285-286.	0.7	18
43	Estimation of Bioethanol Production Cost from Rice Straw by On-site Enzyme Production. Journal of the Japan Petroleum Institute, 2013, 56, 150-155.	0.4	16
44	Carbonization of Cellulose Using the Hydrothermal Method. Journal of Chemical Engineering of Japan, 2008, 41, 210-215.	0.3	15
45	Bench-scale bioethanol production from eucalyptus by high solid saccharification and glucose/xylose fermentation method. Bioprocess and Biosystems Engineering, 2014, 37, 749-754.	1.7	15
46	A comparison of power generation and ethanol production using sugarcane bagasse from the perspective of mitigating GHG emissions. Energy Policy, 2013, 57, 624-629.	4.2	14
47	Hot Gas Cleaning of Producer Gas from Biomass Gasification Using Carbonaceous Materials as a Bed Additive. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2004, 83, 828-831.	0.2	13
48	The scale of biomass production in Japan. Biomass and Bioenergy, 2005, 29, 321-330.	2.9	12
49	Evaluation of energy consumption and greenhouse gas emissions from poly(phenyllactic acid) production using sweet sorghum. Journal of Cleaner Production, 2015, 87, 208-215.	4.6	12
50	Organic Compounds Formed by Thermochemical Degradation of Glucose-Glycine Melanoidins Using Hot Compressed Water. Journal of Chemical Engineering of Japan, 2004, 37, 915-919.	0.3	11
51	Study for utilization of municipal residues as bioenergy resource in Japan. Biomass and Bioenergy, 2005, 29, 360-366.	2.9	10
52	Characteristics of enzymes from Acremonium cellulolyticus strains and their utilization in the saccharification of potato pulp. Biochemical Engineering Journal, 2014, 83, 1-7.	1.8	9
53	The regional economic impacts on the development of wood chip utilization in Maniwa city. Journal of Wood Science, 2013, 59, 321-330.	0.9	8
54	Estimation of Energy for Hydrocarbon Extraction in Biofuel Production from Microalgae. Journal of the Japan Petroleum Institute, 2011, 54, 395-399.	0.4	8

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55	A Kinetic Study of the Decomposition of CaCO3 at High CO2 Partial Pressure for the Regeneration of a CO2 Sorbent. Journal of Chemical Engineering of Japan, 2006, 39, 1191-1194.	0.3	7
56	Heat Transfer Characteristics of Biomass Slurry under High Pressure and High Temperature. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2011, 90, 874-880.	0.2	5
57	Effect of Lignin Content on Direct Liquefaction of Bark.. Kagaku Kogaku Ronbunshu, 1992, 18, 131-133.	0.1	4
58	Material balances of major and trace elements in hydrogen production process from coal with CO 2 recovery. Fuel, 2013, 107, 40-46.	3.4	4
59	Introduction of Dehydration Process into Mechanochemical Pretreatment for Bioethanol Production. Journal of the Japan Petroleum Institute, 2011, 54, 215-221.	0.4	4
60	Methanol Mediated Extraction of Phenolic Compounds from Wood Tar. Chemistry Letters, 2002, 31, 546-547.	0.7	3
61	Research on a Biomass Accounting Framework as a Biomass Town Assessment and Information Provision Tool. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2009, 88, 1081-1094.	0.2	3
62	Organic Composition of Model Garbage during Thermochemical Liquidization.. Journal of Chemical Engineering of Japan, 2002, 35, 384-388.	0.3	2
63	Process Evaluation of Biomass to Liquid Fuel Production System with Gasification and Liquid Fuel Synthesis. Studies in Surface Science and Catalysis, 2004, 153, 79-84.	1.5	2
64	Reaction Characteristics of Glycerol Pretreatment of Bio-oil with Calcium Hydroxide for Biodiesel Production. Journal of the Japan Petroleum Institute, 2011, 54, 266-271.	0.4	2
65	Dehydration of Biodiesel Fuel Using Desiccant. Journal of the Japan Petroleum Institute, 2012, 55, 358-362.	0.4	1
66	The Rheological Characteristics of Biomass Slurry under High Pressure and High Temperature. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2011, 90, 1165-1170.	0.2	0
67	Authorsâ€™ Reply to Comments on the Paper â€œEstimation of Energy for Hydrocarbon Extraction in Biofuel Production from Microalgaeâ€. Journal of the Japan Petroleum Institute, 2012, 55, 214-214.	0.4	0
68	Heat Transfer Characteristics of Activated Carbon Suspended Slurry Near the Critical Point of Water. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2013, 92, 309-312.	0.2	0