

# Tomoaki Minowa

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6100662/publications.pdf>

Version: 2024-02-01

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	Evaluation of energy consumption and greenhouse gas emissions from poly(phenyllactic acid) production using sweet sorghum. <i>Journal of Cleaner Production</i> , 2015, 87, 208-215.	4.6	12
2	Potential for rice straw ethanol production in the Mekong Delta, Vietnam. <i>Renewable Energy</i> , 2015, 74, 456-463.	4.3	31
3	Bench-scale bioethanol production from eucalyptus by high solid saccharification and glucose/xylose fermentation method. <i>Bioprocess and Biosystems Engineering</i> , 2014, 37, 749-754.	1.7	15
4	Characteristics of enzymes from <i>Acremonium cellulolyticus</i> strains and their utilization in the saccharification of potato pulp. <i>Biochemical Engineering Journal</i> , 2014, 83, 1-7.	1.8	9
5	Material balances of major and trace elements in hydrogen production process from coal with CO <sub>2</sub> recovery. <i>Fuel</i> , 2013, 107, 40-46.	3.4	4
6	The regional economic impacts on the development of wood chip utilization in Maniwa city. <i>Journal of Wood Science</i> , 2013, 59, 321-330.	0.9	8
7	A comparison of power generation and ethanol production using sugarcane bagasse from the perspective of mitigating GHG emissions. <i>Energy Policy</i> , 2013, 57, 624-629.	4.2	14
8	Estimation of Bioethanol Production Cost from Rice Straw by On-site Enzyme Production. <i>Journal of the Japan Petroleum Institute</i> , 2013, 56, 150-155.	0.4	16
9	Gasification Rate of Various Biomass Feedstocks in Supercritical Water. <i>Journal of the Japan Petroleum Institute</i> , 2013, 56, 1-10.	0.4	33
10	Heat Transfer Characteristics of Activated Carbon Suspended Slurry Near the Critical Point of Water. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2013, 92, 309-312.	0.2	0
11	Production of Bio-Hydrogenated Diesel by Hydrotreatment of High-Acid-Value Waste Cooking Oil over Ruthenium Catalyst Supported on Al-Polyoxocation-Pillared Montmorillonite. <i>Catalysts</i> , 2012, 2, 171-190.	1.6	51
12	Dehydration of Biodiesel Fuel Using Desiccant. <i>Journal of the Japan Petroleum Institute</i> , 2012, 55, 358-362.	0.4	1
13	Estimation of the potential of rice straw for ethanol production and the optimum facility size for different regions in Vietnam. <i>Applied Energy</i> , 2012, 93, 205-211.	5.1	27
14	Authors'™ Reply to Comments on the Paper "Estimation of Energy for Hydrocarbon Extraction in Biofuel Production from Microalgae". <i>Journal of the Japan Petroleum Institute</i> , 2012, 55, 214-214.	0.4	0
15	Hydrotreatment of Vegetable Oils to Produce Bio-Hydrogenated Diesel and Liquefied Petroleum Gas Fuel over Catalysts Containing Sulfided Ni-Mo and Solid Acids. <i>Energy &amp; Fuels</i> , 2011, 25, 4675-4685.	2.5	180
16	Renewable Diesel Production from the Hydrotreating of Rapeseed Oil with Pt/Zeolite and NiMo/Al <sub>2</sub> O <sub>3</sub> Catalysts. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 2791-2799.	1.8	198
17	Reaction Characteristics of Glycerol Pretreatment of Bio-oil with Calcium Hydroxide for Biodiesel Production. <i>Journal of the Japan Petroleum Institute</i> , 2011, 54, 266-271.	0.4	2
18	Pinch analysis for bioethanol production process from lignocellulosic biomass. <i>Applied Thermal Engineering</i> , 2011, 31, 3332-3336.	3.0	28

#	ARTICLE	IF	CITATIONS
19	Reaction of d-glucose in water at high temperatures (410Å°C) and pressures (180MPa) for the production of dyes and nano-particles. <i>Journal of Supercritical Fluids</i> , 2011, 56, 41-47.	1.6	21
20	Introduction of Dehydration Process into Mechanochemical Pretreatment for Bioethanol Production. <i>Journal of the Japan Petroleum Institute</i> , 2011, 54, 215-221.	0.4	4
21	Estimation of Energy for Hydrocarbon Extraction in Biofuel Production from Microalgae. <i>Journal of the Japan Petroleum Institute</i> , 2011, 54, 395-399.	0.4	8
22	Heat Transfer Characteristics of Biomass Slurry under High Pressure and High Temperature. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2011, 90, 874-880.	0.2	5
23	The Rheological Characteristics of Biomass Slurry under High Pressure and High Temperature. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2011, 90, 1165-1170.	0.2	0
24	Net energy analysis of bioethanol production system from high-yield rice plant in Japan. <i>Applied Energy</i> , 2010, 87, 2164-2168.	5.1	49
25	Application of the severity parameter for predicting viscosity during hydrothermal processing of dewatered sewage sludge for a commercial PFBC plant. <i>Bioresource Technology</i> , 2010, 101, 2043-2045.	4.8	22
26	Recovery of activated carbon catalyst, calcium, nitrogen and phosphate from effluent following supercritical water gasification of poultry manure. <i>Bioresource Technology</i> , 2009, 100, 4884-4886.	4.8	38
27	Wet disk milling pretreatment without sulfuric acid for enzymatic hydrolysis of rice straw. <i>Bioresource Technology</i> , 2009, 100, 2706-2711.	4.8	229
28	Hydrotreatment of Jatropha Oil to Produce Green Diesel over Trifunctional Niâ€“Mo/SiO2â€“Al2O3 Catalyst. <i>Chemistry Letters</i> , 2009, 38, 552-553.	0.7	85
29	Research on a Biomass Accounting Framework as a Biomass Town Assessment and Information Provision Tool. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2009, 88, 1081-1094.	0.2	3
30	Environmental and economic analysis of methanol production process via biomass gasification. <i>Fuel</i> , 2008, 87, 1422-1427.	3.4	83
31	Catalytic hydrothermal gasification of cellulose and glucose. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 981-990.	3.8	97
32	Carbonization of Cellulose Using the Hydrothermal Method. <i>Journal of Chemical Engineering of Japan</i> , 2008, 41, 210-215.	0.3	15
33	Gasification of Catalyst-Suspended Chicken Manure in Supercritical Water. <i>Journal of Chemical Engineering of Japan</i> , 2008, 41, 433-440.	0.3	55
34	Behavior of Inorganic Elements in Poultry Manure during Supercritical Water Gasification. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2008, 87, 731-736.	0.2	49
35	Bioethanol Production from Lignocellulosic Biomass Requiring No Sulfuric Acid: Mechanochemical Pretreatment and Enzymic Saccharification. <i>Journal of the Japan Petroleum Institute</i> , 2008, 51, 264-273.	0.4	21
36	Detailed Analysis of Heat and Mass Balance for Supercritical Water Gasification. <i>Journal of Chemical Engineering of Japan</i> , 2008, 41, 817-828.	0.3	24

#	ARTICLE	IF	CITATIONS
37	Co-gasification of woody biomass and coal with air and steam. <i>Fuel</i> , 2007, 86, 684-689.	3.4	248
38	A kinetic study of in situ CO <sub>2</sub> removal gasification of woody biomass for hydrogen production. <i>Biomass and Bioenergy</i> , 2007, 31, 556-562.	2.9	20
39	A Kinetic Study of the Decomposition of CaCO <sub>3</sub> at High CO <sub>2</sub> Partial Pressure for the Regeneration of a CO <sub>2</sub> Sorbent. <i>Journal of Chemical Engineering of Japan</i> , 2006, 39, 1191-1194.	0.3	7
40	Hydrogen production from woody biomass by steam gasification using a $\text{CaCO}_3$ sorbent. <i>Journal of Chemical Engineering of Japan</i> , 2006, 39, 1191-1194.	2.9	180
41	Effect of woody biomass components on air-steam gasification. <i>Biomass and Bioenergy</i> , 2005, 28, 69-76.	2.9	170
42	The scale of biomass production in Japan. <i>Biomass and Bioenergy</i> , 2005, 29, 321-330.	2.9	12
43	Amount, availability, and potential use of rice straw (agricultural residue) biomass as an energy resource in Japan. <i>Biomass and Bioenergy</i> , 2005, 29, 347-354.	2.9	131
44	Study for utilization of municipal residues as bioenergy resource in Japan. <i>Biomass and Bioenergy</i> , 2005, 29, 360-366.	2.9	10
45	Biomass gasification in near- and super-critical water: Status and prospects. <i>Biomass and Bioenergy</i> , 2005, 29, 269-292.	2.9	648
46	Simultaneous removal of H <sub>2</sub> S and COS using activated carbons and their supported catalysts. <i>Catalysis Today</i> , 2005, 104, 94-100.	2.2	100
47	Hydrothermal Reaction of Glucose and Glycine as Model Compounds of Biomass. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2004, 83, 794-798.	0.2	26
48	Process Evaluation of Biomass to Liquid Fuel Production System with Gasification and Liquid Fuel Synthesis. <i>Studies in Surface Science and Catalysis</i> , 2004, 153, 79-84.	1.5	2
49	Fundamental design of a continuous biomass gasification process using a supercritical water fluidized bed. <i>International Journal of Hydrogen Energy</i> , 2004, 29, 701-707.	3.8	181
50	Liquefaction and Gasification of Cellulose with Na <sub>2</sub> CO <sub>3</sub> and Ni in Subcritical Water at 350 °C. <i>Industrial &amp; Engineering Chemistry Research</i> , 2004, 43, 2454-2463.	1.8	150
51	Organic Compounds Formed by Thermochemical Degradation of Glucose-Glycine Melanoidins Using Hot Compressed Water. <i>Journal of Chemical Engineering of Japan</i> , 2004, 37, 915-919.	0.3	11
52	Hot Gas Cleaning of Producer Gas from Biomass Gasification Using Carbonaceous Materials as a Bed Additive. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2004, 83, 828-831.	0.2	13
53	Methanol Mediated Extraction of Phenolic Compounds from Wood Tar. <i>Chemistry Letters</i> , 2002, 31, 546-547.	0.7	3
54	Organic Composition of Model Garbage during Thermochemical Liquidization. <i>Journal of Chemical Engineering of Japan</i> , 2002, 35, 384-388.	0.3	2

#	ARTICLE	IF	CITATIONS
55	Hot Compressed Water Treatment for Production of Charcoal from Wood.. Journal of Chemical Engineering of Japan, 2002, 35, 1020-1023.	0.3	35
56	Liquefaction of ammonia and cellulose: effect of nitrogen/carbon ratio in the feedstock. Biomass and Bioenergy, 1999, 16, 377-383.	2.9	27
57	Hydrogen production from cellulose using a reduced nickel catalyst. Catalysis Today, 1998, 45, 411-416.	2.2	130
58	Thermochemical liquefaction of Indonesian biomass residues. Biomass and Bioenergy, 1998, 14, 517-524.	2.9	184
59	Cellulose decomposition in hot-compressed water with alkali or nickel catalyst. Journal of Supercritical Fluids, 1998, 13, 253-259.	1.6	342
60	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
61	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
62	Thermochemical liquidization and anaerobic treatment of kitchen garbage. Journal of Bioscience and Bioengineering, 1997, 83, 451-455.	0.9	41
63	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
64	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
65	Hydrogen Production from Wet Cellulose by Low Temperature Gasification Using a Reduced Nickel Catalyst. Chemistry Letters, 1995, 24, 937-938.	0.7	50
66	Oil production from garbage by thermochemical liquefaction. Biomass and Bioenergy, 1995, 8, 117-120.	2.9	95
67	Thermochemical liquidization of dewatered sewage sludge. Biomass and Bioenergy, 1993, 4, 243-248.	2.9	26
68	Effect of Lignin Content on Direct Liquefaction of Bark.. Kagaku Kogaku Ronbunshu, 1992, 18, 131-133.	0.1	4