

# Yukihiko Matsumura

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/3037364/yukihiko-matsumura-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

217  
papers

5,004  
citations

33  
h-index

65  
g-index

219  
ext. papers

5,498  
ext. citations

3.5  
avg, IF

6.1  
L-index

#	Paper	IF	Citations
217	Gasification characteristics of carbon nanotube in supercritical water. <i>Journal of Supercritical Fluids</i> , <b>2022</b> , 182, 105532	4.2	0
216	Difference in Gas-Sensing behavior of Multi-walled carbon Nanotube-Paper-Based gas sensor to polar and non-Polar organic solvents. <i>Chemical Physics Letters</i> , <b>2022</b> , 139596	2.5	0
215	Slow Pyrolysis of <i>Ulva lactuca</i> (Chlorophyta) for Sustainable Production of Bio-Oil and Biochar. <i>Sustainability</i> , <b>2022</b> , 14, 3233	3.6	0
214	Reutilization of Algal Supercritical Water Gasification Waste for Microalgae Cultivation. <i>ACS Omega</i> , <b>2021</b> , 6, 12551-12556	3.9	3
213	Feasible conditions for Japanese woody biomass utilization. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 51060-51071	5.1	1
212	Effect of heating rate on gasification and phosphorus recovery for palm oil mill effluent in supercritical water. <i>Journal of Supercritical Fluids</i> , <b>2021</b> , 173, 105217	4.2	1
211	Coupling hydrothermal carbonization of digestate and supercritical water gasification of liquid products. <i>Renewable Energy</i> , <b>2021</b> , 173, 934-941	8.1	5
210	Change in ionization potential of magnesium tin oxide films before and after photochromism. <i>AIP Advances</i> , <b>2021</b> , 11, 085108	1.5	0
209	Reaction Rate of Hydrothermal Ammonia Production from Chicken Manure. <i>ACS Omega</i> , <b>2021</b> , 6, 23442-23446	3.9	0
208	Recent advancement on hydrogen production from macroalgae via supercritical water gasification. <i>Bioresource Technology Reports</i> , <b>2021</b> , 16, 100844	4.1	10
207	Supercritical water gasification of microalgae with and without oil extraction. <i>Journal of Supercritical Fluids</i> , <b>2020</b> , 165, 104936	4.2	14
206	Flocculation of <i>Chlorella vulgaris</i> by shell waste-derived bioflocculants for biodiesel production: Process optimization, characterization and kinetic studies. <i>Science of the Total Environment</i> , <b>2020</b> , 702, 134995	10.2	34
205	Understanding the mechanism of photochromism in double-layer metal oxide using X-ray photoelectron spectroscopy. <i>Chemical Physics Letters</i> , <b>2020</b> , 739, 136973	2.5	1
204	Emission shift by co-doping and color reproducibility improvement by mixing phosphors. <i>Chemical Physics Letters</i> , <b>2020</b> , 759, 137974	2.5	1
203	Response of Palladium and Carbon Nanotube Composite Films to Hydrogen Gas and Behavior of Conductive Carriers. <i>Materials</i> , <b>2020</b> , 13,	3.5	2
202	Final report on the pilot plant operation for supercritical water gasification of wet biomass. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2020</b> , 460, 012019	0.3	1
201	Supercritical Water Gasification of Guaiacol with Acetic Acid as a Radical Scavenger: Interaction Effect on Char Formation and Gas Composition. <i>ACS Omega</i> , <b>2020</b> , 5, 24818-24825	3.9	4

200	Light and flexible gas sensors made of free-standing carbon nanotube paper. <i>Chemical Physics Letters</i> , <b>2020</b> , 747, 137367	2.5	3
199	Effect of thickness of carbon nanotube films on enhancement of sensor response. <i>Chemical Physics Letters</i> , <b>2019</b> , 734, 136730	2.5	4
198	Cell structure destruction and its kinetics during hydrothermal treatment of sewage sludge. <i>Korean Journal of Chemical Engineering</i> , <b>2019</b> , 36, 433-438	2.8	5
197	Complete genome sequence of sp. strain OM-1: A lipid-producing bacterium with potential use in wastewater treatment. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , <b>2019</b> , 24, e00366	5.3	1
196	Requirements for photochromism in double-layer metal oxide films. <i>Chemical Physics Letters</i> , <b>2019</b> , 732, 136620	2.5	3
195	VHF Plasma CVD Synthesis of Photochromic ZnO Nanoparticle. <i>MRS Advances</i> , <b>2019</b> , 4, 1573-1577	0.7	
194	New Application of Supercritical Water Gasification to Palm Oil Mill Effluent: Gasification and Phosphorus Recovery. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 11145-11152	4.1	5
193	Catalytic supercritical water gasification of oil palm frond biomass using nanosized MgO doped Zn catalysts. <i>Journal of Supercritical Fluids</i> , <b>2019</b> , 154, 104610	4.2	4
192	Development of Palladium and Carbon Nanotubes Composite Hydrogen Gas Sensor. <i>The Proceedings of the Symposium on Micro-Nano Science and Technology</i> , <b>2019</b> , 2019.10, 20pm3PN208	0	
191	Sewage Sludge Gasification under a Hydrothermal Condition: Phosphorus Behavior and Its Kinetics. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 2301-2307	4.1	5
190	Synthesis of broad yellow phosphors by co-doping and realization of high quality of white light. <i>Chemical Physics Letters</i> , <b>2019</b> , 717, 11-15	2.5	2
189	Comparative study between supported and doped MgO catalysts in supercritical water gasification for hydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 3690-3701	6.7	9
188	Determination of retro-aldol reaction type for glyceraldehyde under hydrothermal conditions. <i>Journal of Supercritical Fluids</i> , <b>2019</b> , 143, 370-377	4.2	4
187	Effects of physical and chemical adsorption on the electric conductance of carbon nanotube films. <i>AIP Advances</i> , <b>2018</b> , 8, 015222	1.5	8
186	Comparative study of hydrothermal pretreatment for rice straw and its corresponding mixture of cellulose, xylan, and lignin. <i>Bioresource Technology</i> , <b>2018</b> , 255, 1-6	11	31
185	Transient behavior of carbon nanotube thin film for adsorption of polar and non-polar molecules. <i>Chemical Physics Letters</i> , <b>2018</b> , 691, 351-354	2.5	2
184	Interaction among Glucose, Xylose, and Guaiacol in Supercritical Water. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 1788-1795	4.1	3
183	Effect of Acetic Acid Addition on Decomposition of Xylose in Supercritical Water. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 1754-1760	4.1	8

182	Isolation of High Carotenoid-producing Aurantiochytrium sp. Mutants and Improvement of Astaxanthin Productivity Using Metabolic Information. <i>Journal of Oleo Science</i> , <b>2018</b> , 67, 571-578	1.6	20
181	Spontaneous and controlled-diameter synthesis of single-walled and few-walled carbon nanotubes. <i>Chemical Physics Letters</i> , <b>2018</b> , 699, 88-92	2.5	5
180	Efficient conversion of mannitol derived from brown seaweed to fructose for fermentation with a thraustochytrid. <i>Journal of Bioscience and Bioengineering</i> , <b>2018</b> , 125, 180-184	3.3	12
179	Supercritical water gasification of sewage sludge in continuous reactor. <i>Bioresource Technology</i> , <b>2018</b> , 249, 276-283	11	72
178	Suppression of Radical Char Production in Supercritical Water Gasification by Addition of Organic Acid Radical Scavenger. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 9568-9571	4.1	11
177	Principles of detection mechanism for adsorbed gases using carbon nanotube nanomat. <i>Chemical Physics Letters</i> , <b>2018</b> , 709, 77-81	2.5	8
176	Effect of Single-walled Carbon Nanotube Catalysts on Hydrothermal Pretreatment of Cellulose. <i>Journal of the Japan Petroleum Institute</i> , <b>2018</b> , 61, 199-204	1	1
175	Photochromic behavior at the interface of two transparent thin films and the possibility for its use in a high-performance battery. <i>Chemical Physics Letters</i> , <b>2018</b> , 712, 25-29	2.5	2
174	RNase H-assisted RNA-primed rolling circle amplification for targeted RNA sequence detection. <i>Scientific Reports</i> , <b>2018</b> , 8, 7770	4.9	14
173	Conversion of guaiacol in supercritical water gasification: Detailed effect of feedstock concentration. <i>Journal of Supercritical Fluids</i> , <b>2018</b> , 142, 32-37	4.2	11
172	Process Design and Evaluation of Supercritical Water Gasification of Tomato Residue in a Rural Area of Japan. <i>Journal of the Japan Petroleum Institute</i> , <b>2018</b> , 61, 213-218	1	
171	Decomposition kinetics of uronic acids obtained from kelp under hydrothermal condition. <i>Journal of the Energy Institute</i> , <b>2017</b> , 90, 185-190	5.7	2
170	Thermal decomposition products of various carbon sources in chemical vapor deposition synthesis of carbon nanotube. <i>Diamond and Related Materials</i> , <b>2017</b> , 75, 1-5	3.5	20
169	Gasification characteristics of histidine and 4-methylimidazole under supercritical water conditions. <i>Biomass Conversion and Biorefinery</i> , <b>2017</b> , 7, 487-494	2.3	7
168	Kinetic model of cellulose degradation using simultaneous saccharification and fermentation. <i>Biomass and Bioenergy</i> , <b>2017</b> , 99, 116-121	5.3	20
167	In-depth study of continuous production of biodiesel using supercritical 1-butanol. <i>Energy Conversion and Management</i> , <b>2017</b> , 132, 410-417	10.6	19
166	Effect of the Heating Rate on the Supercritical Water Gasification of a Glucose/Guaiacol Mixture. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 6401-6407	3.9	10
165	Review on methyl ester production from inedible rubber seed oil under various catalysts. <i>Industrial Crops and Products</i> , <b>2017</b> , 97, 191-195	5.9	13

164	Effect of preparation conditions in sol-gel method on yellow phosphor with wide spectrum. <i>AIP Advances</i> , <b>2017</b> , 7, 015208	1.5	3
163	Improved methanization and microbial diversity during batch mode cultivation with repetition of substrate addition using defined organic matter and marine sediment inoculum at seawater salinity. <i>Bioresource Technology</i> , <b>2017</b> , 245, 833-840	11	5
162	In-situ Mass Spectroscopic Analysis of Glucose Decomposition under Hydrothermal Condition: Quantitative Analysis for Reaction Kinetics. <i>Journal of the Japan Petroleum Institute</i> , <b>2017</b> , 60, 101-109	1	3
161	Simple Equation for Enzymatic Hydrolysis of Cellulose Using Cellulase Complex and $\alpha$ -Glucosidase Mixture. <i>Journal of the Japan Petroleum Institute</i> , <b>2017</b> , 60, 322-328	1	6
160	Real-Time Mass Spectrometric Analysis of Hydrothermal Reaction Products. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 9993-9998	3.9	2
159	State of the art of biodiesel production under supercritical conditions. <i>Progress in Energy and Combustion Science</i> , <b>2017</b> , 63, 173-203	33.6	90
158	Continuous production of biodiesel under supercritical methyl acetate conditions: Experimental investigation and kinetic model. <i>Bioresource Technology</i> , <b>2017</b> , 241, 720-725	11	30
157	Transport phenomena of electrons at the carbon nanotube interface with molecular adsorption. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 015308	2.5	13
156	Quantitative In Situ Mass Spectrometry Analysis of Mannitol Decomposition Products under Hydrothermal Conditions. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 10866-10873	4.1	3
155	In situ mass spectrometry of glucose decomposition under hydrothermal reactions. <i>Korean Journal of Chemical Engineering</i> , <b>2017</b> , 34, 1524-1530	2.8	3
154	Defects control in the synthesis of low-dimensional zinc oxide. <i>Chemical Physics Letters</i> , <b>2017</b> , 684, 113-116	1.6	5
153	Gasification Characteristics of Aminobutyric Acid and Serine as Model Compounds of Proteins under Supercritical Water Conditions. <i>Journal of the Japan Petroleum Institute</i> , <b>2017</b> , 60, 34-40	1	11
152	Detailed Mechanism of Xylose Decomposition in Near-Critical and Supercritical Water. <i>Energy &amp; Fuels</i> , <b>2016</b> , 30, 7930-7936	4.1	10
151	Fossil Diesel Substitution Potential of Biodiesel Produced from Rubber Seed Oil as a Byproduct of Rubber Wood Plantation. <i>Energy &amp; Fuels</i> , <b>2016</b> , 30, 8031-8036	4.1	5
150	Estimation of adsorption energy for water molecules on a multi-walled carbon nanotube thin film by measuring electric resistance. <i>AIP Advances</i> , <b>2016</b> , 6, 115212	1.5	12
149	Synthesis of photochromic nanoparticles and determination of the mechanism of photochromism. <i>AIP Advances</i> , <b>2016</b> , 6, 055214	1.5	9
148	Isolation and characterization of bacterium producing lipid from short-chain fatty acids. <i>Bioresource Technology</i> , <b>2016</b> , 201, 215-21	11	4
147	Inhibition of char deposition using a particle bed in heating section of supercritical water gasification. <i>Korean Journal of Chemical Engineering</i> , <b>2016</b> , 33, 1261-1266	2.8	4

146	Semi-continuous methane production from undiluted brown algae using a halophilic marine microbial community. <i>Bioresource Technology</i> , <b>2016</b> , 200, 616-23	11	11
145	Bacterial community structure and predicted alginate metabolic pathway in an alginate-degrading bacterial consortium. <i>Journal of Bioscience and Bioengineering</i> , <b>2016</b> , 121, 286-92	3.3	8
144	Characterization of a halotolerant acetoclastic methanogen highly enriched from marine sediment and its application in removal of acetate. <i>Journal of Bioscience and Bioengineering</i> , <b>2016</b> , 121, 196-202	3.3	5
143	Decomposition Kinetics of Mannose, Its Sugar Alcohol, and Its Uronic Acid under Hydrothermal Condition. <i>Journal of Chemical Engineering of Japan</i> , <b>2016</b> , 49, 663-667	0.8	1
142	High-rate Fermentation of Acetate to Methane under Saline Condition by Aceticlastic Methanogens Immobilized in Marine Sediment. <i>Journal of the Japan Petroleum Institute</i> , <b>2016</b> , 59, 9-15	1	
141	Simultaneous Saccharification and Fermentation Using Environmental-adapted Yeast by Preculture. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , <b>2016</b> , 95, 303-306	0.5	0
140	Effect of Preculture Conditions on Simultaneous Saccharification and Fermentation for Effective Ethanol Production. <i>Journal of the Japan Petroleum Institute</i> , <b>2016</b> , 59, 93-96	1	
139	Optimization of Conditions for Hydrothermal Dissolution of Cellulose. <i>Journal of the Japan Petroleum Institute</i> , <b>2016</b> , 59, 59-64	1	1
138	Kinetics of Sorbitol Decomposition under Hydrothermal Condition. <i>Journal of the Japan Petroleum Institute</i> , <b>2016</b> , 59, 149-154	1	2
137	Kinetics of Sorbitol Decomposition under Hydrothermal Condition. <i>Journal of the Japan Petroleum Institute</i> , <b>2016</b> , 59, 241-241	1	
136	Effect of molecular coverage on the electric conductance of a multi-walled carbon nanotube thin film. <i>Chemical Physics Letters</i> , <b>2016</b> , 654, 9-12	2.5	7
135	New insights in biodiesel production using supercritical 1-propanol. <i>Energy Conversion and Management</i> , <b>2016</b> , 124, 212-218	10.6	29
134	Supercritical Water Gasification on Three Types of Microalgae in the Presence and Absence of Catalyst and Salt. <i>Procedia Engineering</i> , <b>2016</b> , 148, 594-599		16
133	A novel spiral reactor for biodiesel production in supercritical ethanol. <i>Applied Energy</i> , <b>2015</b> , 147, 20-29	10.7	41
132	Energy analysis for the production of biodiesel in a spiral reactor using supercritical tert-butyl methyl ether (MTBE). <i>Bioresource Technology</i> , <b>2015</b> , 196, 65-71	11	9
131	Decomposition of Xylose in Sub- and Supercritical Water. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 7604-7613	3.9	28
130	Molecular dynamic simulation for the evaluation of free energy distribution along the reaction coordinates at the initial stage of carbon nanotube nucleation. <i>Chemical Physics Letters</i> , <b>2015</b> , 634, 194-197	2.5	3
129	Improved methane production from brown algae under high salinity by fed-batch acclimation. <i>Bioresource Technology</i> , <b>2015</b> , 187, 275-281	11	21

128	Trial for simple gas sensor composed of as-grown carbon nanotubes. <i>Chemical Physics Letters</i> , <b>2015</b> , 628, 81-84	2.5	10
127	Artificial Neural Network Modeling to Predict Biodiesel Production in Supercritical Methanol and Ethanol Using Spiral Reactor. <i>Procedia Environmental Sciences</i> , <b>2015</b> , 28, 214-223		25
126	Biodiesel Production in Supercritical Methanol Using a Novel Spiral Reactor. <i>Procedia Environmental Sciences</i> , <b>2015</b> , 28, 204-213		21
125	Enhancement of the effective thermal conductivity in packed beds by direct synthesis of carbon nanotubes. <i>Journal of Thermal Science and Technology</i> , <b>2015</b> , 10, JTST0013-JTST0013	0.6	1
124	In situ measurement of activation energy for pyrolysis of ethanol as a first reaction in the synthesis of carbon nanotubes. <i>Chemical Physics Letters</i> , <b>2015</b> , 639, 261-265	2.5	1
123	Effect of Low-concentration Furfural on Sulfur Amino Acid Biosynthesis in <i>Saccharomyces cerevisiae</i> . <i>Journal of the Japan Petroleum Institute</i> , <b>2015</b> , 58, 165-168	1	3
122	Determination of Mannitol Decomposition Rate under Hydrothermal Pretreatment Condition. <i>Journal of the Japan Petroleum Institute</i> , <b>2015</b> , 58, 252-255	1	4
121	Effectiveness of Spiral Reactor for Biodiesel Production Using Supercritical t-Butyl Methyl Ether (MTBE). <i>Journal of the Japan Petroleum Institute</i> , <b>2015</b> , 58, 110-117	1	11
120	Effect of Pressure on Biodiesel Production in Supercritical Tert-butyl Methyl Ether (MTBE). <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , <b>2015</b> , 94, 755-762	0.5	4
119	A comparative study of biodiesel production using methanol, ethanol, and tert-butyl methyl ether (MTBE) under supercritical conditions. <i>Bioresource Technology</i> , <b>2015</b> , 191, 306-11	11	57
118	A study on torrefaction of <i>Laminaria japonica</i> . <i>Fuel Processing Technology</i> , <b>2015</b> , 138, 133-138	7.2	35
117	Effect of salinity on methanogenic propionate degradation by acclimated marine sediment-derived culture. <i>Applied Biochemistry and Biotechnology</i> , <b>2015</b> , 177, 1541-52	3.2	3
116	Hydrothermal Gasification of Biomass <b>2015</b> , 251-267		10
115	The Present Status and Future Scope of Bioenergy in Japan. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , <b>2015</b> , 94, 1079-1086	0.5	4
114	<i>Dysgonomonas alginatilytica</i> sp. nov., an alginate-degrading bacterium isolated from a microbial consortium. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2015</b> , 65, 3570-3575	2.2	10
113	Simulation of catalyst behavior during chemical vapor deposition processing of carbon nanotubes. <i>Chemical Physics Letters</i> , <b>2014</b> , 604, 1-4	2.5	2
112	Value-added lipid production from brown seaweed biomass by two-stage fermentation using acetic acid bacterium and thraustochytrid. <i>Applied Microbiology and Biotechnology</i> , <b>2014</b> , 98, 9207-16	5.7	12
111	New approach of catalyst-free biodiesel production from canola oil in supercritical tert-butyl methyl ether (MTBE). <i>Fuel</i> , <b>2014</b> , 135, 172-181	7.1	32

110	Evaluation of marine sediments as microbial sources for methane production from brown algae under high salinity. <i>Bioresource Technology</i> , <b>2014</b> , 169, 362-366	11	39
109	Kinetics analysis of phenol and benzene decomposition in supercritical water. <i>Journal of Supercritical Fluids</i> , <b>2014</b> , 87, 73-82	4.2	30
108	Gasification Characteristics of Alanine in Supercritical Water. <i>Journal of the Japan Petroleum Institute</i> , <b>2014</b> , 57, 225-229	1	10
107	Rules of Thumb (Empirical Rules) for the Biomass Utilization by Thermochemical Conversion. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , <b>2014</b> , 93, 684-702	0.5	7
106	Process Evaluation for Torrefaction of Empty Fruit Bunch in Malaysia. <i>Journal of the Japan Petroleum Institute</i> , <b>2014</b> , 57, 88-93	1	5
105	Behavior of Organics in Kelp during Hydrothermal Pretreatment: Fundamental Characteristics and Effect of Salt. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , <b>2014</b> , 93, 531-535	0.5	5
104	Gasification Characteristics of Amino Acids in Supercritical Water. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , <b>2014</b> , 93, 936-943	0.5	11
103	Effect of Column Height on Mass Transfer Characteristics of Spray Column. <i>Applied Mechanics and Materials</i> , <b>2014</b> , 625, 657-660	0.3	
102	Production of Chemicals in Supercritical Water. <i>Biofuels and Biorefineries</i> , <b>2014</b> , 427-443	0.3	
101	Precursor and formation mechanism in the synthesis of carbon nanotubes by chemical vapor deposition. <i>Chemical Physics Letters</i> , <b>2014</b> , 616-617, 217-221	2.5	3
100	Comparative Study of Hydrothermal Pretreatment of Eucalyptus and Oil Palm Empty Fruit Bunch for Ethanol Fermentation. <i>Journal of the Japan Petroleum Institute</i> , <b>2014</b> , 57, 164-170	1	2
99	Effect of CH <sub>3</sub> COOH and K <sub>2</sub> CO <sub>3</sub> on Hydrothermal Pretreatment of Water Hyacinth ( <i>Eichhornia crassipes</i> ). <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 5009-5015	3.9	11
98	The Effect of Catalyst Content on Supercritical Water Gasification Process with Shochu (Japanese Popular Distilled Liquor) Residue and the Result of Long-time Continuous Operation. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , <b>2013</b> , 92, 1159-1166	0.5	3
97	Effect of Activated Carbon Catalytic on Supercritical Water Gasification of Glycine as a Model Compound of Protein. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , <b>2013</b> , 92, 894-899	0.5	14
96	Kinetic Analysis of Guaiacol Conversion in Sub- and Supercritical Water. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 9048-9059	3.9	59
95	Kinetic Analysis of Lignin Hydrothermal Conversion in Sub- and Supercritical Water. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 5626-5639	3.9	86
94	Gasification Rate of Various Biomass Feedstocks in Supercritical Water. <i>Journal of the Japan Petroleum Institute</i> , <b>2013</b> , 56, 1-10	1	31
93	Reaction Pathways of Phenol and Benzene Decomposition in Supercritical Water Gasification. <i>Journal of the Japan Petroleum Institute</i> , <b>2013</b> , 56, 331-343	1	24



92	Effect of Inhibition Substances on Monod Equation of Yeast Growth. <i>Journal of the Japan Petroleum Institute</i> , <b>2013</b> , 56, 326-330	1	6
91	Simultaneous Hydrothermal Pretreatment and Ball Milling of Bamboo. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , <b>2013</b> , 92, 889-893	0.5	
90	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> , <b>2013</b> , 92, 309-312	0.5	
89	In situ mass spectroscopic analysis for chemical vapor deposition synthesis of single-walled carbon nanotubes. <i>Chemical Physics Letters</i> , <b>2012</b> , 533, 56-59	2.5	6
88	In situ mass spectroscopic analysis of alcohol catalytic chemical vapor deposition process for single-walled carbon nanotube. <i>Chemical Physics Letters</i> , <b>2012</b> , 536, 104-108	2.5	11
87	l-Menthol crystal micronized by rapid expansion of supercritical carbon dioxide. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2012</b> , 18, 904-908	6.3	8
86	Catalytic Gasification of Poultry Manure and Eucalyptus Wood Mixture in Supercritical Water. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 5685-5690	3.9	29
85	Reaction Kinetics of the Lignin Conversion in Supercritical Water. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 11975-11988	3.9	97
84	Dehydration of Biodiesel Fuel Using Desiccant. <i>Journal of the Japan Petroleum Institute</i> , <b>2012</b> , 55, 358-362		1
83	Applicability of Monod Equation to Growth Curves of Various Microorganisms. <i>Journal of the Japan Petroleum Institute</i> , <b>2012</b> , 55, 236-240	1	6
82	Determination of coal ash emissivity using simplified equation for thermal design of coal-fired boilers. <i>Fuel</i> , <b>2012</b> , 95, 241-246	7.1	13
81	Effects of fine ash particles and alkali metals on ash deposition characteristics at the initial stage of ash deposition determined in 1.5 MWth pilot plant tests. <i>Fuel</i> , <b>2012</b> , 97, 233-240	7.1	28
80	Drastic enhancement of effective thermal conductivity of a metal hydride packed bed by direct synthesis of single-walled carbon nanotubes. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 1836-1841	6.7	24
79	Feasibility of Bioenergy Utilization for Sustainable Agriculture: A Case Study on Biomethanation and Ethanol Production in Thailand. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , <b>2012</b> , 91, 923-930	0.5	1
78	New Correlation for Mass Transfer Characteristics of Spray Column. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 13554-13560	3.9	9
77	Reaction Characteristics of Glycerol Pretreatment of Bio-oil with Calcium Hydroxide for Biodiesel Production. <i>Journal of the Japan Petroleum Institute</i> , <b>2011</b> , 54, 266-271	1	2
76	Elucidation of Thermal Pretreatment Kinetics of Bio-oil Feedstock Premixed with Calcium Hydroxide and Glycerol for Reactive Biodiesel Production via Ethanolysis in Developing Countries. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , <b>2011</b> , 90, 172-176	0.5	3
75	Acid-Catalyzed Char Formation from 5-HMF in Subcritical Water. <i>Journal of Chemical Engineering of Japan</i> , <b>2011</b> , 44, 431-436	0.8	19

74	MD Study of Functionalized Single-Walled Carbon Nanotube. <i>Journal of Thermal Science and Technology</i> , <b>2011</b> , 6, 256-267	0.6	
73	Role of 5-HMF in Supercritical Water Gasification of Glucose. <i>Journal of Chemical Engineering of Japan</i> , <b>2011</b> , 44, 91-97	0.8	21
72	Temperature Effect on Hydrothermal Decomposition of Glucose in Sub- And Supercritical Water. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 8492-8497	3.9	104
71	Proposal for Bioethanol Fermentation System with N, P, K Recycling by Wet Oxidation. <i>Journal of the Japan Petroleum Institute</i> , <b>2011</b> , 54, 45-49	1	3
70	Heat Transfer Characteristics of Biomass Slurry under High Pressure and High Temperature. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , <b>2011</b> , 90, 874-880	0.5	5
69	G224 Correlation for the mass transfer in the spray column. <i>The Proceedings of the Thermal Engineering Conference</i> , <b>2011</b> , 2011, 359-360	0	
68	Energy Balance of a Staged Process for the Supercritical Water Gasification of a Hydrogen Fermentation Residue of Food Waste. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , <b>2011</b> , 90, 455-460	0.5	2
67	The Rheological Characteristics of Biomass Slurry under High Pressure and High Temperature. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , <b>2011</b> , 90, 1165-1170	0.5	
66	Supercritical Water Gasification Staged at Intervals for Hydrogen Fermentation Residue of Food Waste. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , <b>2010</b> , 89, 1173-1178	0.5	5
65	Effect of Temperature on Tarry Material Production of Glucose in Supercritical Water Gasification. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , <b>2010</b> , 89, 1179-1184	0.5	27
64	New Approaches to Biodiesel Production by Ethanolysis with Calcium Hydroxide Catalyst Using Thermal Pretreatment with Glycerol. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , <b>2010</b> , 89, 562-566	0.5	8
63	Prospective growth region for chemical vapor deposition synthesis of carbon nanotube on C <sub>2</sub> H <sub>2</sub> O ternary diagram. <i>Diamond and Related Materials</i> , <b>2010</b> , 19, 1401-1404	3.5	25
62	Char Formation Mechanism in Supercritical Water Gasification Process: A Study of Model Compounds. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2010</b> , 49, 4055-4062	3.9	113
61	Metal coating effect on thermal diffusivity of single-walled carbon nanotube. <i>Chemical Physics Letters</i> , <b>2010</b> , 495, 80-83	2.5	5
60	Heterogeneously Catalyzed Ethanolysis of Groundnut Crude Oil Using Activated Calcium Oxide and Surface-Modified Activated Calcium Oxide. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , <b>2010</b> , 89, 53-58	0.5	10
59	MNM-4A-3 Direct synthesis method of single-walled carbon nanotube containing platinum group element. <i>The Proceedings of the Symposium on Micro-Nano Science and Technology</i> , <b>2010</b> , 2010.2, 175-176 <sup>o</sup>		
58	Recovery of activated carbon catalyst, calcium, nitrogen and phosphate from effluent following supercritical water gasification of poultry manure. <i>Bioresource Technology</i> , <b>2009</b> , 100, 4884-6	11	34
57	Influence of catalyst supporters on catalyst nanoparticles in synthesis of single-walled carbon nanotubes. <i>Microelectronics Journal</i> , <b>2009</b> , 40, 692-696	1.8	4

56	Influence of metal coating on single-walled carbon nanotube: Molecular dynamics approach to determine tensile strength. <i>Chemical Physics Letters</i> , <b>2009</b> , 469, 125-129	2.5	35
55	Reactor Development for Supercritical Water Gasification of 4.9 wt% Glucose Solution at 673 K by Using Computational Fluid Dynamics. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2009</b> , 48, 8381-8388	3.9	22
54	Hydrothermal Pretreatment of Rubber Wood for the Saccharification Process. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2009</b> , 48, 4587-4591	3.9	37
53	Formation of Tarry Material from 5-HMF in Subcritical and Supercritical Water. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2009</b> , 48, 9837-9846	3.9	142
52	Behavior of 5-HMF in Subcritical and Supercritical Water. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2008</b> , 47, 2956-2962	3.9	57
51	Effect of catalyst combination on growth of single-walled carbon nanotubes. <i>Diamond and Related Materials</i> , <b>2008</b> , 17, 1888-1890	3.5	4
50	Gasification of Catalyst-Suspended Chicken Manure in Supercritical Water. <i>Journal of Chemical Engineering of Japan</i> , <b>2008</b> , 41, 433-440	0.8	46
49	Behavior of Inorganic Elements in Poultry Manure during Supercritical Water Gasification. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , <b>2008</b> , 87, 731-736	0.5	45
48	Molecular dynamics simulation of metal coating on single-walled carbon nanotube. <i>Chemical Physics Letters</i> , <b>2008</b> , 464, 160-165	2.5	28
47	Molecular dynamics simulation of physical vapor deposition of metals onto a vertically aligned single-walled carbon nanotube surface. <i>Carbon</i> , <b>2008</b> , 46, 2046-2052	10.4	16
46	Detailed Analysis of Heat and Mass Balance for Supercritical Water Gasification. <i>Journal of Chemical Engineering of Japan</i> , <b>2008</b> , 41, 817-828	0.8	22
45	Glucose Decomposition in Water under Supercritical Pressure at 448-498 K. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , <b>2007</b> , 86, 700-706	0.5	19
44	A kinetic study of in situ CO <sub>2</sub> removal gasification of woody biomass for hydrogen production. <i>Biomass and Bioenergy</i> , <b>2007</b> , 31, 556-562	5.3	20
43	Improvement of the Bioethanol Process Using Cassava Pulp as Biomass Resource. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , <b>2007</b> , 86, 470-474	0.5	2
42	Improvement of Bioethanol Process-Design and Evaluation of Pretreatment Step and Whole Process-. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , <b>2007</b> , 86, 462-469	0.5	3
41	EFFECT OF HEATING RATE OF BIOMASS FEEDSTOCK ON CARBON GASIFICATION EFFICIENCY IN SUPERCRITICAL WATER GASIFICATION. <i>Chemical Engineering Communications</i> , <b>2006</b> , 193, 649-659	2.2	41
40	SUPERCRITICAL WATER TREATMENT OF BIOMASS FOR ENERGY AND MATERIAL RECOVERY. <i>Combustion Science and Technology</i> , <b>2006</b> , 178, 509-536	1.5	131
39	Glucose Decomposition Kinetics in Water at 25 MPa in the Temperature Range of 448-673 K. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2006</b> , 45, 1875-1879	3.9	95

38	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> , <b>2006</b> , 39, 1191-1194	0.8	5
37	Hydrogenation of Acetone in Supercritical Water Using Formic Acid: Rapid Hydrogenation Observed at a Long Retention Time. <i>Journal of Chemical Engineering of Japan</i> , <b>2006</b> , 39, 1300-1302	0.8	4
36	Current situation and prospect of biomass utilization in Japan. <i>Biomass and Bioenergy</i> , <b>2005</b> , 29, 304-309	5.3	16
35	The scale of biomass production in Japan. <i>Biomass and Bioenergy</i> , <b>2005</b> , 29, 321-330	5.3	11
34	Amount, availability, and potential use of rice straw (agricultural residue) biomass as an energy resource in Japan. <i>Biomass and Bioenergy</i> , <b>2005</b> , 29, 347-354	5.3	106
33	Woody biomass resources and conversion in Japan: The current situation and projections to 2010 and 2050. <i>Biomass and Bioenergy</i> , <b>2005</b> , 29, 336-346	5.3	57
32	Evaluation of supply potential of energy crops in Japan considering cases of improvement of crop productivity. <i>Biomass and Bioenergy</i> , <b>2005</b> , 29, 355-359	5.3	7
31	Biomass gasification in near- and super-critical water: Status and prospects. <i>Biomass and Bioenergy</i> , <b>2005</b> , 29, 269-292	5.3	575
30	Hydrothermal Treatment of Cellulose as a Pretreatment for Ethanol Fermentation: Cellulose Hydrolysis Experiments. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , <b>2005</b> , 84, 544-548	0.5	12
29	Improvement of the Refinement Process for Bioethanol. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , <b>2005</b> , 84, 852-860	0.5	9
28	Gasification of Stockbreeding Waste in Supercritical Water. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , <b>2004</b> , 83, 740-744	0.5	3
27	Hydrothermal Reaction of Glucose and Glycine as Model Compounds of Biomass. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , <b>2004</b> , 83, 794-798	0.5	22
26	Gasification of biomass model compounds and real biomass in supercritical water. <i>Biomass and Bioenergy</i> , <b>2004</b> , 26, 71-78	5.3	260
25	Fundamental design of a continuous biomass gasification process using a supercritical water fluidized bed. <i>International Journal of Hydrogen Energy</i> , <b>2004</b> , 29, 701-707	6.7	147
24	Biomass Gasification in Supercritical Water with Partial Oxidation. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , <b>2003</b> , 82, 919-925	0.5	18
23	Hydrothermal Pulping of Wet Biomass as Pretreatment for Supercritical Water Gasification Studied Using Cabbage as a Model Compound.. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , <b>2003</b> , 82, 97-102	0.5	23
22	Comprehensive comparison of efficiency and CO <sub>2</sub> emissions between biomass energy conversion technologies. Position of supercritical water gasification in biomass technologies. <i>Biomass and Bioenergy</i> , <b>2003</b> , 25, 257-272	5.3	119
21	Reaction Engineering Model for Supercritical Water Oxidation of Phenol Catalyzed by Activated Carbon. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2003</b> , 42, 3522-3531	3.9	19

20	Effect of Carbonaceous Materials on the Oxidation of Phenol in Supercritical Water: A Preliminary Study. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2003</b> , 42, 3718-3720	3.9	13
19	Electrochemical Oxidation of Glucose on a Platinum Electrode at 523 K.. <i>Kagaku Kogaku Ronbunshu</i> , <b>2003</b> , 29, 188-190	0.4	1
18	Electrochemical Oxidation of Methanol in Hot Aqueous Solution.. <i>Kagaku Kogaku Ronbunshu</i> , <b>2003</b> , 29, 184-187	0.4	
17	Evaluation of supercritical water gasification and biomethanation for wet biomass utilization in Japan. <i>Energy Conversion and Management</i> , <b>2002</b> , 43, 1301-1310	10.6	72
16	Carbon catalyzed supercritical water oxidation of phenol. <i>Journal of Supercritical Fluids</i> , <b>2002</b> , 22, 149-156	5.2	30
15	Effects of a Sodium Hydroxide Addition on the Decomposition of 2-Chlorophenol in Supercritical Water. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2002</b> , 41, 5427-5431	3.9	14
14	Determination of Ammonia Oxidation Rate in Sub- and Supercritical Water. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2002</b> , 41, 6020-6027	3.9	81
13	Global Kinetics of 2-Chlorophenol Disappearance with NaOH in Supercritical Water.. <i>Journal of Chemical Engineering of Japan</i> , <b>2002</b> , 35, 1252-1256	0.8	6
12	Adsorption of Carbon Monoxide on Platinum in Hot Aqueous Acidic Solution from 423 to 533 K.. <i>Journal of Chemical Engineering of Japan</i> , <b>2002</b> , 35, 626-633	0.8	2
11	Electrochemical Oxidation of Carbon Monoxide on a Pt Electrode at Lower Potential in Hot Aqueous Solution at 423 K and 473 K.. <i>Journal of Chemical Engineering of Japan</i> , <b>2002</b> , 35, 479-484	0.8	1
10	Gasification of Cellulose, Xylan, and Lignin Mixtures in Supercritical Water. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2001</b> , 40, 5469-5474	3.9	175
9	Supercritical Water Liquefaction of Coal and Waste Tires: Effects of Partial Oxidation and the Water-gas Shift Reaction.. <i>Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute)</i> , <b>2001</b> , 44, 397-400		3
8	A Case Study of Ethanol Production from Sweet Sorghum in China.. <i>Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute)</i> , <b>2001</b> , 44, 407-410		
7	Supercritical water oxidation of high concentrations of phenol. <i>Journal of Hazardous Materials</i> , <b>2000</b> , 73, 245-54	12.8	37
6	Improvement of Heat Transfer in a Packed-Bed Reactor for a Chemical Heat Pump Using Sodium Carbonate Decahydrate Dehydration. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1997</b> , 36, 2421-2428	3.9	2
5	Carbon-Catalyzed Gasification of Organic Feedstocks in Supercritical Water. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1996</b> , 35, 2522-2530	3.9	338
4	Heat pump characteristics of sodium carbonate dehydration/hydration system. <i>International Journal of Energy Research</i> , <b>1995</b> , 19, 253-261	4.5	4
3	A chemical heat pump using hydration of mgo particles in a three-phase reactor. <i>International Journal of Energy Research</i> , <b>1995</b> , 19, 263-273	4.5	8

- 2 Bubble Characteristics of Circulating Three-Phase Fluidized Bed.. *Kagaku Kogaku Ronbunshu*, **1995**, 21, 132-136 0.4
- 1 Fundamental Investigation of a Chemical Heat Pump with Cold Heat Storage Using Sodium Carbonate Decahydrate and Oxalic Acid Dihydrate.. *Kagaku Kogaku Ronbunshu*, **1993**, 19, 695-698 0.4 2