

# Yukihiko Matsumura

## List of Publications by Citations

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217  
papers

5,004  
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219  
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5,498  
ext. citations

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#	Paper	IF	Citations
217	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
216	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
215	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
214	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
213	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
212	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
211	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
210	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
209	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
208	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
207	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
206	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
205	Glucose Decomposition Kinetics in Water at 25 MPa in the Temperature Range of 448-573 K. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2006</b> , 45, 1875-1879	3.9	95
204	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
203	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
202	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
201	Supercritical water gasification of sewage sludge in continuous reactor. <i>Bioresource Technology</i> , <b>2018</b> , 249, 276-283	11	72

200	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
199	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
198	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
197	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
196	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
195	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
194	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
193	A novel spiral reactor for biodiesel production in supercritical ethanol. <i>Applied Energy</i> , <b>2015</b> , 147, 20-29	10.7	41
192	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
191	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
190	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
189	Supercritical water oxidation of high concentrations of phenol. <i>Journal of Hazardous Materials</i> , <b>2000</b> , 73, 245-54	12.8	37
188	A study on torrefaction of <i>Laminaria japonica</i> . <i>Fuel Processing Technology</i> , <b>2015</b> , 138, 133-138	7.2	35
187	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
186	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
185	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
184	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
183	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

182	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
181	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
180	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
179	Carbon catalyzed supercritical water oxidation of phenol. <i>Journal of Supercritical Fluids</i> , <b>2002</b> , 22, 149-156	6.2	30
178	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
177	New insights in biodiesel production using supercritical 1-propanol. <i>Energy Conversion and Management</i> , <b>2016</b> , 124, 212-218	10.6	29
176	Decomposition of Xylose in Sub- and Supercritical Water. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 7604-7613	3.9	28
175	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
174	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
173	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
172	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
171	Prospective growth region for chemical vapor deposition synthesis of carbon nanotube on C <sub>60</sub> /H <sub>2</sub> O ternary diagram. <i>Diamond and Related Materials</i> , <b>2010</b> , 19, 1401-1404	3.5	25
170	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
169	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
168	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
167	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, 8381-8386	3.9	22
166	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
165	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

164	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
163	Biodiesel Production in Supercritical Methanol Using a Novel Spiral Reactor. <i>Procedia Environmental Sciences</i> , <b>2015</b> , 28, 204-213		21
162	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
161	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
160	Kinetic model of cellulose degradation using simultaneous saccharification and fermentation. <i>Biomass and Bioenergy</i> , <b>2017</b> , 99, 116-121	5.3	20
159	Isolation of High Carotenoid-producing <i>Aurantiochytrium</i> 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
158	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
157	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
156	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
155	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
154	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
153	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
152	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
151	Current situation and prospect of biomass utilization in Japan. <i>Biomass and Bioenergy</i> , <b>2005</b> , 29, 304-309	5.3	16
150	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
149	Supercritical water gasification of microalgae with and without oil extraction. <i>Journal of Supercritical Fluids</i> , <b>2020</b> , 165, 104936	4.2	14
148	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
147	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

146	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
145	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
144	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
143	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
142	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
141	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
140	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
139	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
138	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
137	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
136	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
135	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
134	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
133	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
132	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
131	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
130	The scale of biomass production in Japan. <i>Biomass and Bioenergy</i> , <b>2005</b> , 29, 321-330	5.3	11
129	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

128	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
127	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
126	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
125	Hydrothermal Gasification of Biomass <b>2015</b> , 251-267		10
124	Gasification Characteristics of Alanine in Supercritical Water. <i>Journal of the Japan Petroleum Institute</i> , <b>2014</b> , 57, 225-229	1	10
123	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
122	<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
121	Recent advancement on hydrogen production from macroalgae via supercritical water gasification. <i>Bioresource Technology Reports</i> , <b>2021</b> , 16, 100844	4.1	10
120	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
119	Synthesis of photochromic nanoparticles and determination of the mechanism of photochromism. <i>AIP Advances</i> , <b>2016</b> , 6, 055214	1.5	9
118	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
117	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
116	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
115	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
114	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
113	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
112	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
111	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

110	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
109	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
108	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
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	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
105	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
104	Simple Equation for Enzymatic Hydrolysis of Cellulose Using Cellulase Complex and $\beta$ -Glucosidase Mixture. <i>Journal of the Japan Petroleum Institute</i> , <b>2017</b> , 60, 322-328	1	6
103	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
102	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
101	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
100	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
99	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
98	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
97	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
96	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
95	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
94	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
93	Defects control in the synthesis of low-dimensional zinc oxide. <i>Chemical Physics Letters</i> , <b>2017</b> , 684, 113-116	1.6	5



92	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
91	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
90	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
89	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
88	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
87	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
86	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
85	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
84	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
83	Isolation and characterization of bacterium producing lipid from short-chain fatty acids. <i>Bioresource Technology</i> , <b>2016</b> , 201, 215-21	11	4
82	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
81	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
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