Mitsumasa Osada

List of Publications by Citations

53 papers	1,654 citations	22 h-index	40 g-index
54 ext. papers	1,827 ext. citations	4.7 avg, IF	4.41 L-index

#	Paper	IF	Citations
53	Catalytic effects of NaOH and ZrO2 for partial oxidative gasification of n-hexadecane and lignin in supercritical water?. *Fuel*, **2003**, 82, 545-552	7.1	187
52	Low-Temperature Catalytic Gasification of Lignin and Cellulose with a Ruthenium Catalyst in Supercritical Water. *Energy & Fuels*, **2004**, 18, 327-333	4.1	170
51	CATALYTIC GASIFICATION OF WOOD BIOMASS IN SUBCRITICAL AND SUPERCRITICAL WATER. *Combustion Science and Technology*, **2006**, 178, 537-552	1.5	129
50	Stability of Supported Ruthenium Catalysts for Lignin Gasification in Supercritical Water. *Energy & Fuels*, **2006**, 20, 2337-2343	4.1	109
49	Water Density Effect on Lignin Gasification over Supported Noble Metal Catalysts in Supercritical Water. *Energy & Fuels*, **2006**, 20, 930-935	4.1	91
48	Hydrogen production from woody biomass over supported metal catalysts in supercritical water. *Catalysis Today*, **2009**, 146, 192-195	5.3	84
47	Effect of Sulfur on Catalytic Gasification of Lignin in Supercritical Water. *Energy & Fuels*, **2007**, 21, 1400-1405	4.1	71
46	Gasification of Alkylphenols with Supported Noble Metal Catalysts in Supercritical Water. *Industrial & Engineering Chemistry Research*, **2003**, 42, 4277-4282	3.9	69
45	Reaction Pathway for Catalytic Gasification of Lignin in Presence of Sulfur in Supercritical Water. *Energy & Fuels*, **2007**, 21, 1854-1858	4.1	68
44	Non-catalytic synthesis of Chromogen I and III from N-acetyl-D-glucosamine in high-temperature water. *Green Chemistry*, **2013**, 15, 2960	10	56
43	Acidity and basicity of metal oxide catalysts for formaldehyde reaction in supercritical water at 673 K. *Applied Catalysis A: General*, **2003**, 245, 333-341	5.1	53
42	Lignin Gasification over Supported Ruthenium Trivalent Salts in Supercritical Water. *Energy & Fuels*, **2008**, 22, 1485-1492	4.1	50
41	Effects of supercritical water and mechanochemical grinding treatments on physicochemical properties of chitin. *Carbohydrate Polymers*, **2013**, 92, 1573-8	10.3	43
40	Gasification of Sugarcane Bagasse over Supported Ruthenium Catalysts in Supercritical Water. *Energy & Fuels*, **2012**, 26, 3179-3186	4.1	40
39	Subcritical Water Regeneration of Supported Ruthenium Catalyst Poisoned by Sulfur. *Energy & Fuels*, **2008**, 22, 845-849	4.1	39
38	Effect of sub- and supercritical water pretreatment on enzymatic degradation of chitin. *Carbohydrate Polymers*, **2012**, 88, 308-312	10.3	34
37	Water density dependence of formaldehyde reaction in supercritical water. *Journal of Supercritical Fluids*, **2004**, 28, 219-224	4.2	32

36	EXAFS Study on Structural Change of Charcoal-supported Ruthenium Catalysts during Lignin Gasification in Supercritical Water. *Catalysis Letters*, **2008**, 122, 188-195	2.8	31
35	Estimation of the degree of hydrogen bonding between quinoline and water by ultraviolet□isible absorbance spectroscopy in sub- and supercritical water. *Journal of Chemical Physics*, **2003**, 118, 4573-4577	3.9	28
34	Hydrogenation of benzothiophene-free naphthalene over charcoal-supported metal catalysts in supercritical carbon dioxide solvent. *Applied Catalysis A: General*, **2007**, 331, 1-7	5.1	27
33	NMR spectroscopic structural characterization of a water-soluble □(1-3, 1-6)-glucan from Aureobasidium pullulans. *Carbohydrate Polymers*, **2017**, 174, 876-886	10.3	26
32	Effect of sub- and supercritical water treatments on the physicochemical properties of crab shell chitin and its enzymatic degradation. *Carbohydrate Polymers*, **2015**, 134, 718-25	10.3	24
31	Effect of purification method of □chitin from squid pen on the properties of □chitin nanofibers. *International Journal of Biological Macromolecules*, **2016**, 91, 987-93	7.9	20
30	Terephthalic acid synthesis at higher concentrations in high-temperature liquid water. 1. Effect of oxygen feed method. *AIChE Journal*, **2009**, 55, 710-716	3.6	16
29	Non-catalytic dehydration of N,N?-diacetylchitobiose in high-temperature water. *RSC Advances*, **2014**, 4, 33651-33657	3.7	14
28	Depolymerization of Poly(ethylene terephthalate) to Terephthalic Acid and Ethylene Glycol in High-temperature Liquid Water. *Chemistry Letters*, **2009**, 38, 268-269	1.7	13
27	Effect of acidity on the physicochemical properties of □and □chitin nanofibers. *International Journal of Biological Macromolecules*, **2017**, 102, 358-366	7.9	12
26	Supercritical Water Gasification of Organosolv Lignin over a Graphite-supported Ruthenium Metal Catalyst. *Chemistry Letters*, **2012**, 41, 1453-1455	1.7	12
25	Terephthalic acid synthesis at higher concentrations in high-temperature liquid water. 2. Eliminating undesired byproducts. *AIChE Journal*, **2009**, 55, 1530-1537	3.6	12
24	Lignin Gasification over Charcoal-supported Palladium and Nickel Bimetal Catalysts in Supercritical Water. *Chemistry Letters*, **2010**, 39, 1251-1253	1.7	12
23	Preparation of □chitin nanofiber aerogels by lyophilization. *International Journal of Biological Macromolecules*, **2019**, 126, 1145-1149	7.9	12
22	Self-Sustaining Cellulose Nanofiber Hydrogel Produced by Hydrothermal Gelation without Additives. *ACS Biomaterials Science and Engineering*, **2018**, 4, 1536-1545	5.5	11
21	Conversion of N-acetyl-d-glucosamine to nitrogen-containing chemicals in high-temperature water. *Fuel Processing Technology*, **2019**, 195, 106154	7.2	9
20	Two-dimensional NMR data of a water-soluble □(1-3, 1-6)-glucan from and schizophyllan from. *Data in Brief*, **2017**, 15, 382-388	1.2	8
19	Hydrothermal Gelation of Pure Cellulose Nanofiber Dispersions. *ACS Applied Polymer Materials*, **2019**, 1, 1045-1053	4.3	8

18	Non-catalytic conversion of chitin into Chromogen I in high-temperature water. *International Journal of Biological Macromolecules*, **2019**, 136, 994-999	7.9	8
17	Parameters of hydrothermal gelation of chitin nanofibers determined using a severity factor. *Cellulose*, **2018**, 25, 6873-6885	5.5	7
16	Systematic dynamic viscoelasticity measurements for chitin nanofibers prepared with various concentrations, disintegration times, acidities, and crystalline structures. *International Journal of Biological Macromolecules*, **2018**, 115, 431-437	7.9	6
15	Amination of n-hexanol in supercritical water. *Environmental Science & Technology*, **2005**, 39, 9721-4	10.3	4
14	Effect of the degree of acetylation on the physicochemical properties of □chitin nanofibers. *International Journal of Biological Macromolecules*, **2020**, 155, 350-357	7.9	3
13	Utilization of Supercritical Fluid for Catalytic Thermochemical Conversions of Woody-Biomass Related Compounds **2015**, 437-453		2
12	Influence of Addition of Functionalized Alumina Particles on CO2 Stripping from Amine Solvents. *Energy Procedia*, **2017**, 114, 2024-2029	2.3	1
11	Continuous Toluene Hydrogenation System Using Compressed Carbon Dioxide. *Journal of Chemical Engineering of Japan*, **2010**, 43, 82-86	0.8	1
10	Kinetic Analysis of Sodium Lactate Synthesis from Glycerol in Alkaline Aqueous Solution at High Temperature and Prediction of Optimum Conditions. *Kagaku Kogaku Ronbunshu*, **2016**, 42, 148-154	0.4	1
9	Preparation of hypoallergenic ovalbumin by high-temperature water treatment. *Bioscience, Biotechnology and Biochemistry*, **2021**, 85, 2442-2449	2.1	1
8	Effect of Lewis and Br□sted Acids on Conversion of Chitin Monomer N-Acetyl-D-Glucosamine (GlcNAc) to Furan Derivatives in [Bmim]Cl Ionic Liquid. *Kagaku Kogaku Ronbunshu*, **2019**, 45, 141-146	0.4	0
7	Influence of Temperature, Water Content and C/N Ratio on the Aerobic Fermentation Rate of Woody Biomass. *Kagaku Kogaku Ronbunshu*, **2017**, 43, 231-237	0.4	0
6	Environment-friendly utilization of squid pen with water: Production of □chitin nanofibers and peptides for lowering blood pressure. *International Journal of Biological Macromolecules*, **2021**, 189, 921-929	7.9	0
5	Effective Utilization of Woody Biomass Using Converge Mill and Enzymatic Saccharification Characteristics. *Journal of the Society of Powder Technology, Japan*, **2012**, 49, 675-682	0.3	
4	Preparation of Self-Sustaining Hydrogels by Hydrothermal Gelation of Biomass-Derived Nanofibers. *Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu*, **2019**, 29, 194-198	0	
3	[Review: Symposium on Applied Glycoscience] Development of Functional Food and Materials Utilizing Local Carbohydrate Resources. *Bulletin of Applied Glycoscience*, **2013**, 3, 159-165	0.1	
2	Chemical Engineering Experiments Utilizing Handheld Technology and Sensors at National College of Technology. *Journal of Jsee*, **2013**, 61, 4_43-4_48	0	
1	[Mini Review] Production of Self-sustaining Hydrogels by Hydrothermal Gelation of Cellulose and Chitin Nanofiber Dispersions. *Bulletin of Applied Glycoscience*, **2019**, 9, 172-176	0.1	