

Mitsumasa Osada

List of Publications by Year in Descending Order

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

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	Preparation of hypoallergenic ovalbumin by high-temperature water treatment. <i>Bioscience, Biotechnology and Biochemistry</i> , 2021 , 85, 2442-2449	2.1	1
52	Environment-friendly utilization of squid pen with water: Production of β -chitin nanofibers and peptides for lowering blood pressure. <i>International Journal of Biological Macromolecules</i> , 2021 , 189, 921-929	7.9	0
51	Effect of the degree of acetylation on the physicochemical properties of β -chitin nanofibers. <i>International Journal of Biological Macromolecules</i> , 2020 , 155, 350-357	7.9	3
50	Conversion of N-acetyl-d-glucosamine to nitrogen-containing chemicals in high-temperature water. <i>Fuel Processing Technology</i> , 2019 , 195, 106154	7.2	9
49	Hydrothermal Gelation of Pure Cellulose Nanofiber Dispersions. <i>ACS Applied Polymer Materials</i> , 2019 , 1, 1045-1053	4.3	8
48	Non-catalytic conversion of chitin into Chromogen I in high-temperature water. <i>International Journal of Biological Macromolecules</i> , 2019 , 136, 994-999	7.9	8
47	Effect of Lewis and Brønsted Acids on Conversion of Chitin Monomer N-Acetyl-D-Glucosamine (GlcNAc) to Furan Derivatives in [Bmim]Cl Ionic Liquid. <i>Kagaku Kogaku Ronbunshu</i> , 2019 , 45, 141-146	0.4	0
46	Preparation of Self-Sustaining Hydrogels by Hydrothermal Gelation of Biomass-Derived Nanofibers. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , 2019 , 29, 194-198	0	
45	Preparation of β -chitin nanofiber aerogels by lyophilization. <i>International Journal of Biological Macromolecules</i> , 2019 , 126, 1145-1149	7.9	12
44	[Mini Review] Production of Self-sustaining Hydrogels by Hydrothermal Gelation of Cellulose and Chitin Nanofiber Dispersions. <i>Bulletin of Applied Glycoscience</i> , 2019 , 9, 172-176	0.1	
43	Systematic dynamic viscoelasticity measurements for chitin nanofibers prepared with various concentrations, disintegration times, acidities, and crystalline structures. <i>International Journal of Biological Macromolecules</i> , 2018 , 115, 431-437	7.9	6
42	Self-Sustaining Cellulose Nanofiber Hydrogel Produced by Hydrothermal Gelation without Additives. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 1536-1545	5.5	11
41	Parameters of hydrothermal gelation of chitin nanofibers determined using a severity factor. <i>Cellulose</i> , 2018 , 25, 6873-6885	5.5	7
40	Effect of acidity on the physicochemical properties of β - and β -chitin nanofibers. <i>International Journal of Biological Macromolecules</i> , 2017 , 102, 358-366	7.9	12
39	Influence of Addition of Functionalized Alumina Particles on CO ₂ Stripping from Amine Solvents. <i>Energy Procedia</i> , 2017 , 114, 2024-2029	2.3	1
38	Two-dimensional NMR data of a water-soluble β -(1- β , 1-6)-glucan from and schizophyllan from. <i>Data in Brief</i> , 2017 , 15, 382-388	1.2	8
37	NMR spectroscopic structural characterization of a water-soluble β -(1- β , 1-6)-glucan from <i>Aureobasidium pullulans</i> . <i>Carbohydrate Polymers</i> , 2017 , 174, 876-886	10.3	26

36	Influence of Temperature, Water Content and C/N Ratio on the Aerobic Fermentation Rate of Woody Biomass. <i>Kagaku Kogaku Ronbunshu</i> , 2017 , 43, 231-237	0.4	0
35	Kinetic Analysis of Sodium Lactate Synthesis from Glycerol in Alkaline Aqueous Solution at High Temperature and Prediction of Optimum Conditions. <i>Kagaku Kogaku Ronbunshu</i> , 2016 , 42, 148-154	0.4	1
34	Effect of purification method of Echinin from squid pen on the properties of Echinin nanofibers. <i>International Journal of Biological Macromolecules</i> , 2016 , 91, 987-93	7.9	20
33	Effect of sub- and supercritical water treatments on the physicochemical properties of crab shell chitin and its enzymatic degradation. <i>Carbohydrate Polymers</i> , 2015 , 134, 718-25	10.3	24
32	Utilization of Supercritical Fluid for Catalytic Thermochemical Conversions of Woody-Biomass Related Compounds 2015 , 437-453		2
31	Non-catalytic dehydration of N,N'-diacetylchitobiose in high-temperature water. <i>RSC Advances</i> , 2014 , 4, 33651-33657	3.7	14
30	Non-catalytic synthesis of Chromogen I and III from N-acetyl-D-glucosamine in high-temperature water. <i>Green Chemistry</i> , 2013 , 15, 2960	10	56
29	Effects of supercritical water and mechanochemical grinding treatments on physicochemical properties of chitin. <i>Carbohydrate Polymers</i> , 2013 , 92, 1573-8	10.3	43
28	[Review: Symposium on Applied Glycoscience] Development of Functional Food and Materials Utilizing Local Carbohydrate Resources. <i>Bulletin of Applied Glycoscience</i> , 2013 , 3, 159-165	0.1	
27	Chemical Engineering Experiments Utilizing Handheld Technology and Sensors at National College of Technology. <i>Journal of Jsee</i> , 2013 , 61, 4_43-4_48	0	
26	Supercritical Water Gasification of Organosolv Lignin over a Graphite-supported Ruthenium Metal Catalyst. <i>Chemistry Letters</i> , 2012 , 41, 1453-1455	1.7	12
25	Gasification of Sugarcane Bagasse over Supported Ruthenium Catalysts in Supercritical Water. <i>Energy & Fuels</i> , 2012 , 26, 3179-3186	4.1	40
24	Effect of sub- and supercritical water pretreatment on enzymatic degradation of chitin. <i>Carbohydrate Polymers</i> , 2012 , 88, 308-312	10.3	34
23	Effective Utilization of Woody Biomass Using Converge Mill and Enzymatic Saccharification Characteristics. <i>Journal of the Society of Powder Technology, Japan</i> , 2012 , 49, 675-682	0.3	
22	Lignin Gasification over Charcoal-supported Palladium and Nickel Bimetal Catalysts in Supercritical Water. <i>Chemistry Letters</i> , 2010 , 39, 1251-1253	1.7	12
21	Continuous Toluene Hydrogenation System Using Compressed Carbon Dioxide. <i>Journal of Chemical Engineering of Japan</i> , 2010 , 43, 82-86	0.8	1
20	Terephthalic acid synthesis at higher concentrations in high-temperature liquid water. 1. Effect of oxygen feed method. <i>AIChE Journal</i> , 2009 , 55, 710-716	3.6	16
19	Terephthalic acid synthesis at higher concentrations in high-temperature liquid water. 2. Eliminating undesired byproducts. <i>AIChE Journal</i> , 2009 , 55, 1530-1537	3.6	12

18	Hydrogen production from woody biomass over supported metal catalysts in supercritical water. <i>Catalysis Today</i> , 2009 , 146, 192-195	5.3	84
17	Depolymerization of Poly(ethylene terephthalate) to Terephthalic Acid and Ethylene Glycol in High-temperature Liquid Water. <i>Chemistry Letters</i> , 2009 , 38, 268-269	1.7	13
16	Lignin Gasification over Supported Ruthenium Trivalent Salts in Supercritical Water. <i>Energy & Fuels</i> , 2008 , 22, 1485-1492	4.1	50
15	Subcritical Water Regeneration of Supported Ruthenium Catalyst Poisoned by Sulfur. <i>Energy & Fuels</i> , 2008 , 22, 845-849	4.1	39
14	EXAFS Study on Structural Change of Charcoal-supported Ruthenium Catalysts during Lignin Gasification in Supercritical Water. <i>Catalysis Letters</i> , 2008 , 122, 188-195	2.8	31
13	Reaction Pathway for Catalytic Gasification of Lignin in Presence of Sulfur in Supercritical Water. <i>Energy & Fuels</i> , 2007 , 21, 1854-1858	4.1	68
12	Hydrogenation of benzothiophene-free naphthalene over charcoal-supported metal catalysts in supercritical carbon dioxide solvent. <i>Applied Catalysis A: General</i> , 2007 , 331, 1-7	5.1	27
11	Effect of Sulfur on Catalytic Gasification of Lignin in Supercritical Water. <i>Energy & Fuels</i> , 2007 , 21, 1400-1405	4.1	71
10	CATALYTIC GASIFICATION OF WOOD BIOMASS IN SUBCRITICAL AND SUPERCRITICAL WATER. <i>Combustion Science and Technology</i> , 2006 , 178, 537-552	1.5	129
9	Water Density Effect on Lignin Gasification over Supported Noble Metal Catalysts in Supercritical Water. <i>Energy & Fuels</i> , 2006 , 20, 930-935	4.1	91
8	Stability of Supported Ruthenium Catalysts for Lignin Gasification in Supercritical Water. <i>Energy & Fuels</i> , 2006 , 20, 2337-2343	4.1	109
7	Amination of n-hexanol in supercritical water. <i>Environmental Science & Technology</i> , 2005 , 39, 9721-410.3	4.0	4
6	Low-Temperature Catalytic Gasification of Lignin and Cellulose with a Ruthenium Catalyst in Supercritical Water. <i>Energy & Fuels</i> , 2004 , 18, 327-333	4.1	170
5	Water density dependence of formaldehyde reaction in supercritical water. <i>Journal of Supercritical Fluids</i> , 2004 , 28, 219-224	4.2	32
4	Catalytic effects of NaOH and ZrO ₂ for partial oxidative gasification of n-hexadecane and lignin in supercritical water?. <i>Fuel</i> , 2003 , 82, 545-552	7.1	187
3	Acidity and basicity of metal oxide catalysts for formaldehyde reaction in supercritical water at 673 K. <i>Applied Catalysis A: General</i> , 2003 , 245, 333-341	5.1	53
2	Gasification of Alkylphenols with Supported Noble Metal Catalysts in Supercritical Water. <i>Industrial & Engineering Chemistry Research</i> , 2003 , 42, 4277-4282	3.9	69
1	Estimation of the degree of hydrogen bonding between quinoline and water by ultraviolet-visible absorbance spectroscopy in sub- and supercritical water. <i>Journal of Chemical Physics</i> , 2003 , 118, 4573-4577	3.9	28

