

Masayuki Shirai

List of Publications by Year in descending order

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67
papers

1,894
citations

279798

23
h-index

254184

43
g-index

68
all docs

68
docs citations

68
times ranked

1556
citing authors

#	ARTICLE	IF	CITATIONS
1	CATALYTIC GASIFICATION OF WOOD BIOMASS IN SUBCRITICAL AND SUPERCRITICAL WATER. <i>Combustion Science and Technology</i> , 2006, 178, 537-552.	2.3	149
2	Sorbitol dehydration in high temperature liquid water. <i>Green Chemistry</i> , 2011, 13, 873.	9.0	129
3	Stability of Supported Ruthenium Catalysts for Lignin Gasification in Supercritical Water. <i>Energy & Fuels</i> , 2006, 20, 2337-2343.	5.1	119
4	Water Density Effect on Lignin Gasification over Supported Noble Metal Catalysts in Supercritical Water. <i>Energy & Fuels</i> , 2006, 20, 930-935.	5.1	103
5	Hydrogen production from woody biomass over supported metal catalysts in supercritical water. <i>Catalysis Today</i> , 2009, 146, 192-195.	4.4	100
6	Catalytic ring hydrogenation of phenol under supercritical carbon dioxide. <i>Chemical Communications</i> , 2003, , 1960.	4.1	96
7	Effect of Sulfur on Catalytic Gasification of Lignin in Supercritical Water. <i>Energy & Fuels</i> , 2007, 21, 1400-1405.	5.1	80
8	Reaction Pathway for Catalytic Gasification of Lignin in Presence of Sulfur in Supercritical Water. <i>Energy & Fuels</i> , 2007, 21, 1854-1858.	5.1	74
9	Formation of platinum nanosheets between graphite layers. <i>Chemical Communications</i> , 2000, , 623-624.	4.1	67
10	Enhancement of cyclic ether formation from polyalcohol compounds in high temperature liquid water by high pressure carbon dioxide. <i>Green Chemistry</i> , 2009, 11, 48-52.	9.0	64
11	Hydrolysis of poly(ethylene terephthalate) and poly(ethylene 2,6-naphthalene dicarboxylate) using water at high temperature: Effect of proton on low ethylene glycol yield. <i>Catalysis Today</i> , 2006, 111, 297-301.	4.4	63
12	Multiphase catalytic reactions in/under dense phase CO ₂ . <i>Journal of Supercritical Fluids</i> , 2009, 47, 351-356.	3.2	59
13	Lignin Gasification over Supported Ruthenium Trivalent Salts in Supercritical Water. <i>Energy & Fuels</i> , 2008, 22, 1485-1492.	5.1	56
14	Gasification of Sugarcane Bagasse over Supported Ruthenium Catalysts in Supercritical Water. <i>Energy & Fuels</i> , 2012, 26, 3179-3186.	5.1	52
15	Subcritical Water Regeneration of Supported Ruthenium Catalyst Poisoned by Sulfur. <i>Energy & Fuels</i> , 2008, 22, 845-849.	5.1	48
16	Biphenyl hydrogenation over supported transition metal catalysts under supercritical carbon dioxide solvent. <i>Applied Catalysis A: General</i> , 2005, 288, 43-47.	4.3	43
17	Acetophenone hydrogenation over a Pd catalyst in the presence of H ₂ O and CO ₂ . <i>Chemical Communications</i> , 2011, 47, 11546.	4.1	38
18	Stereoselective hydrogenation of tert-butylphenols over charcoal-supported rhodium catalyst in supercritical carbon dioxide solvent. <i>Journal of Catalysis</i> , 2007, 252, 57-68.	6.2	34

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19	EXAFS Study on Structural Change of Charcoal-supported Ruthenium Catalysts during Lignin Gasification in Supercritical Water. <i>Catalysis Letters</i> , 2008, 122, 188-195.	2.6	34
20	The Preparation and Structure of Platinum Metal Nanosheets between Graphite Layers. <i>Journal of Physical Chemistry B</i> , 2001, 105, 7211-7215.	2.6	32
21	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.	4.3	30
22	Intramolecular dehydration of biomass-derived sugar alcohols in high-temperature water. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 2714-2722.	2.8	27
23	Enhancement of Glycerol Conversion to Acetol in High-temperature Liquid Water by High-pressure Carbon Dioxide. <i>Chemistry Letters</i> , 2008, 37, 926-927.	1.3	26
24	Intramolecular dehydration of mannitol in high-temperature liquid water without acid catalysts. <i>RSC Advances</i> , 2014, 4, 45575-45578.	3.6	23
25	Stereoselective Intramolecular Dehydration of 2,5-Hexanediol in High-Temperature Liquid Water with High-Pressure Carbon Dioxide. <i>ACS Catalysis</i> , 2011, 1, 67-69.	11.2	22
26	Dehydration of Triol Compounds in High-Temperature Liquid Water Under High-Pressure Carbon Dioxide. <i>Topics in Catalysis</i> , 2010, 53, 487-491.	2.8	20
27	5-Hydroxymethylfurfural Production from Glucose, Fructose, Cellulose, or Cellulose-based Waste Material by Using a Calcium Phosphate Catalyst and Water as a Green Solvent. <i>ChemistrySelect</i> , 2017, 2, 1305-1310.	1.5	20
28	Stereoselective Hydrogenation of Tetralin to cis-Decalin over a Carbon-supported Rhodium Catalyst in Supercritical Carbon Dioxide Solvent. <i>Chemistry Letters</i> , 2006, 35, 188-189.	1.3	18
29	Furfuryl Alcohol and Furfural Hydrogenation over Activated Carbon-supported Palladium Catalyst in Presence of Water and Carbon Dioxide. <i>ChemistrySelect</i> , 2017, 2, 2471-2475.	1.5	18
30	Kinetic analysis of 4-isopropylphenol hydrogenation over activated carbon-supported rhodium catalysts in supercritical carbon dioxide solvent. <i>Green Chemistry</i> , 2012, 14, 633.	9.0	16
31	Continuous dehydration of 1,4-butanediol in flowing liquid water with carbon dioxide. <i>Catalysis Communications</i> , 2015, 68, 6-10.	3.3	14
32	Stereoselective hydrogenation of 4-alkylphenols over carbon-supported rhodium catalyst in supercritical carbon dioxide solvent. <i>Catalysis Communications</i> , 2009, 10, 1702-1705.	3.3	13
33	Depolymerization of Poly(ethylene terephthalate) to Terephthalic Acid and Ethylene Glycol in High-temperature Liquid Water. <i>Chemistry Letters</i> , 2009, 38, 268-269.	1.3	13
34	Cinnamaldehyde Hydrogenation over Platinum Nanosheet Intercalated Graphite Layers in Supercritical Carbon Dioxide Solvent. <i>Chemistry Letters</i> , 2018, 47, 475-478.	1.3	13
35	Supercritical Water Gasification of Organosolv Lignin over a Graphite-supported Ruthenium Metal Catalyst. <i>Chemistry Letters</i> , 2012, 41, 1453-1455.	1.3	12
36	Cyclization of alkanediols in high-temperature liquid water with high-pressure carbon dioxide. <i>Catalysis Today</i> , 2012, 185, 302-305.	4.4	12

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37	Supercritical water gasification of ethanol production waste over graphite supported ruthenium catalyst. <i>Journal of Molecular Catalysis A</i> , 2014, 388-389, 148-153.	4.8	12
38	Platinum Nanosheets between Graphite Layers. <i>Chemical Record</i> , 2019, 19, 1263-1271.	5.8	12
39	Highly active and stable Ni-incorporated spherical silica catalysts for CO ₂ methanation. <i>Catalysis Today</i> , 2020, 358, 30-36.	4.4	11
40	Thermodynamic Equilibria between Polyalcohols and Cyclic Ethers in High-Temperature Liquid Water. <i>Journal of Chemical & Engineering Data</i> , 2009, 54, 2666-2668.	1.9	10
41	Enhancement of reaction rates for catalytic benzaldehyde hydrogenation and sorbitol dehydration in water solvent by addition of carbon dioxide. <i>Journal of Chemical Sciences</i> , 2014, 126, 395-401.	1.5	10
42	Selective Hydrogenation of Cinnamaldehyde Over Platinum Nanosheets Intercalated Between Graphite Layers. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 80-85.	0.9	10
43	One-pot Conversion from Lignocellulosic Biomass to Isosorbide. <i>Journal of the Japan Petroleum Institute</i> , 2016, 59, 155-159.	0.6	9
44	Graphite Intercalated Iridium Nanodisks for Cinnamaldehyde Hydrogenation. <i>Chemistry Letters</i> , 2019, 48, 1262-1265.	1.3	7
45	Selective Hydrogenation of Phenylacetylene with Graphite Intercalated Platinum Nanosheets.. <i>Journal of the Japan Petroleum Institute</i> , 2002, 45, 420-421.	0.6	6
46	Transfer Hydrogenation of 4-Propylphenol Using Ethanol and Water over Charcoal-supported Palladium Catalyst. <i>Chemistry Letters</i> , 2016, 45, 643-645.	1.3	6
47	Inhibition of melanin production and promotion of collagen production by the extract of Kuji amber. <i>Bioscience, Biotechnology and Biochemistry</i> , 2020, 84, 518-525.	1.3	6
48	Preparation and Structural Characterization of Platinum Nanosheets Intercalated between Graphite Powder with High Surface Area. <i>Catalysis Today</i> , 2021, 375, 48-55.	4.4	6
49	Activity and Selectivity Behavior of 1,2-Epoxyethylbenzne Hydrogenation in Carbon Dioxide Solvent. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 9457-9460.	3.7	5
50	Hydrogen Reduction and Chlorine Oxidation Behaviors of Platinum Species between Graphite Interlayer Spaces. <i>Chemistry Letters</i> , 2018, 47, 1094-1096.	1.3	5
51	Solvolyis of benzyl phenyl ether in high-temperature aqueous methanol solution under high-pressure carbon dioxide. <i>Green Chemistry</i> , 2021, 23, 1658-1664.	9.0	5
52	Supercritical Water Gasification of Residue from Ethanol Production from Japanese Cedar. <i>Energy & Fuels</i> , 2013, 27, 3861-3866.	5.1	4
53	Utilization of Supercritical Fluid for Catalytic Thermochemical Conversions of Woody-Biomass Related Compounds. , 2015, , 437-453.		4
54	Depolymerization of Poly(butylene terephthalate) into Terephthalic Acid and Tetrahydrofuran in High-temperature Liquid Water. <i>Chemistry Letters</i> , 2015, 44, 1312-1314.	1.3	3

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55	Dehydration of erythritol in high-temperature carbonated water. <i>Molecular Catalysis</i> , 2019, 477, 110519.	2.0	3
56	Kinetic analyses of intramolecular dehydration of hexitols in high-temperature water. <i>Carbohydrate Research</i> , 2020, 487, 107880.	2.3	3
57	Hydrogenation of 4-Propylphenol over Carbon-supported Palladium Catalyst without External Hydrogen: Effect of Carbon Support and Palladium Loading. <i>Chemistry Letters</i> , 2021, 50, 431-434.	1.3	3
58	Platinum Nanosheets Intercalated into Natural and Artificial Graphite Powders. <i>Chemistry - an Asian Journal</i> , 2021, 16, 2035-2040.	3.3	3
59	Aromatic Monomer Production from Lignin Depolymerization Predicted from Bond Cleavage Data for Lignin Model Compounds. <i>Journal of the Japan Petroleum Institute</i> , 2019, 62, 228-233.	0.6	3
60	Lubricity Improvement of Imidazolium Cation-based Ionic Liquids Treated with Carbon Dioxide. <i>Journal of the Japan Petroleum Institute</i> , 2017, 60, 329-332.	0.6	2
61	Organic Solvent-free Asymmetric 1,4-Addition in Liquid or Solid State using Conventional Stirring Catalyzed by a Chiral Rhodium Complex Developed as a Homogeneous Catalyst. <i>ChemCatChem</i> , 2020, 12, 6059-6066.	3.7	2
62	Preparation of Palladium Metal Intercalated between Graphite Layers with Low Palladium Loading for Cinnamaldehyde Hydrogenation. <i>Chemistry Letters</i> , 2021, 50, 572-575.	1.3	2
63	Benzyl methyl ether production from benzyl alcohol and methanol in carbonic water. <i>Catalysis Today</i> , 2018, 309, 31-34.	4.4	1
64	Hydrogenolysis of benzofuran using aqueous ethanol solution over graphite-supported platinum catalyst. <i>Journal of the Indian Chemical Society</i> , 2021, 98, 100021.	2.8	1
65	4-Propylphenol Hydrogenation over Pt-Pd Bimetallic Catalyst in Aqueous Ethanol Solution without External Hydrogen. <i>Chemistry Letters</i> , 2021, 50, 1968-1971.	1.3	1
66	Effect of Carbon Dioxide Pressure on 4- <i>t</i> -Butylphenol Hydrogenation Activity of Supported Rhodium Catalyst. <i>Journal of the Japan Petroleum Institute</i> , 2013, 56, 165-170.	0.6	1
67	Recent progress in biphasic catalytic systems using ionic liquids. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2022, , 100613.	5.9	1