

Aritomo Yamaguchi

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116
papers

2,526
citations

28
h-index

45
g-index

120
ext. papers

2,771
ext. citations

3.9
avg, IF

5.42
L-index

#	Paper	IF	Citations
116	Modifying Carbon Particles with Polypyrrole for Adsorption of Cobalt Ions as Electrocatalytic Site for Oxygen Reduction. <i>Chemistry of Materials</i> , 2005 , 17, 4278-4281	9.6	214
115	Sorbitol dehydration in high temperature liquid water. <i>Green Chemistry</i> , 2011 , 13, 873	10	119
114	Time scale and elementary steps of CO-induced disintegration of surface rhodium clusters. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 4795-9	16.4	109
113	Reversible Release Control of an Oily Substance Using Photoresponsive Micelles. <i>Langmuir</i> , 2001 , 17, 6072-6076	4	107
112	Catalytic activation and reforming of methane on supported palladium clusters. <i>Journal of Catalysis</i> , 2010 , 274, 52-63	7.3	99
111	Hydrogen production from woody biomass over supported metal catalysts in supercritical water. <i>Catalysis Today</i> , 2009 , 146, 192-195	5.3	84
110	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	10	59
109	Electrochemical Control of Vesicle Formation with a Double-Tailed Cationic Surfactant Bearing Ferrocenyl Moieties. <i>Langmuir</i> , 2001 , 17, 8044-8048	4	59
108	Micellar cobaltporphyrin nanorods in alcohols. <i>Journal of the American Chemical Society</i> , 2004 , 126, 11128-11134	11.6	58
107	Lignin Gasification over Supported Ruthenium Trivalent Salts in Supercritical Water. <i>Energy & Fuels</i> , 2008 , 22, 1485-1492	4.1	50
106	Catalytic production of sugar alcohols from lignocellulosic biomass. <i>Catalysis Today</i> , 2016 , 265, 199-202	5.3	44
105	Deactivation of ZSM-5 zeolite during catalytic steam cracking of n-hexane. <i>Fuel Processing Technology</i> , 2014 , 126, 343-349	7.2	41
104	Electrochemical sensor for superoxide anion radical using polymeric iron porphyrin complexes containing axial 1-methylimidazole ligand as cytochrome c mimics. <i>Polymers for Advanced Technologies</i> , 2005 , 16, 287-292	3.2	41
103	Combined in situ QXAFS and FTIR analysis of a Ni phosphide catalyst under hydrodesulfurization conditions. <i>Journal of Catalysis</i> , 2012 , 286, 165-171	7.3	40
102	Gasification of Sugarcane Bagasse over Supported Ruthenium Catalysts in Supercritical Water. <i>Energy & Fuels</i> , 2012 , 26, 3179-3186	4.1	40
101	Time-resolved DXAFS study on the reduction processes of Cu cations in ZSM-5. <i>Catalysis Letters</i> , 2000 , 68, 139-145	2.8	40
100	Direct production of sugar alcohols from wood chips using supported platinum catalysts in water. <i>Catalysis Communications</i> , 2014 , 54, 22-26	3.2	39

99	Liquid phase hydrogenation of methyl levulinate over the mixture of supported ruthenium catalyst and zeolite in water. <i>Applied Catalysis A: General</i> , 2014 , 470, 215-220	5.1	37
98	Bond cleavage of lignin model compounds into aromatic monomers using supported metal catalysts in supercritical water. <i>Scientific Reports</i> , 2017 , 7, 46172	4.9	35
97	Conversion of cellulose into lactic acid using zirconium oxide catalysts. <i>RSC Advances</i> , 2017 , 7, 18561-18568	5.8	35
96	Acetophenone hydrogenation over a Pd catalyst in the presence of H ₂ O and CO ₂ . <i>Chemical Communications</i> , 2011 , 47, 11546-8	5.8	33
95	In Situ Time-Resolved Energy-Dispersive XAFS Study on the Reduction Processes of Cu ²⁺ /SM-5 Catalysts. <i>Bulletin of the Chemical Society of Japan</i> , 2001 , 74, 801-808	5.1	32
94	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
93	In Situ Time-Resolved Energy-Dispersive X-ray Absorption Fine Structure Study on the Decarbonylation Processes of Mo(CO) ₆ Entrapped in NaY and HY Zeolites. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 2415-2422	3.4	31
92	Structure and redox properties of electropolymerized film obtained from iron meso-tetrakis(3-thienyl)porphyrin. <i>Polymers for Advanced Technologies</i> , 2005 , 16, 616-621	3.2	30
91	Cascade Utilization of Biomass: Strategy for Conversion of Cellulose, Hemicellulose, and Lignin into Useful Chemicals. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 10445-10451	8.3	28
90	One-pot conversion of cellulose to isosorbide using supported metal catalysts and ion-exchange resin. <i>Catalysis Communications</i> , 2015 , 67, 59-63	3.2	28
89	Time-Scale and Sequence of Dynamic Structural Changes in a MgO-Attached Ruthenium Cluster Catalyst Observed by in Situ Time-Resolved DXAFS. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 5609-5616	2.4	28
88	Liposomal surface-loading of water-soluble cationic iron(III) porphyrins as anticancer drugs. <i>Molecular Pharmaceutics</i> , 2004 , 1, 387-9	5.6	27
87	Enhancement of Glycerol Conversion to Acetol in High-temperature Liquid Water by High-pressure Carbon Dioxide. <i>Chemistry Letters</i> , 2008 , 37, 926-927	1.7	25
86	Electrochemical synthesis of a polypyrrole thin film with supercritical carbon dioxide as a solvent. <i>Langmuir</i> , 2005 , 21, 12303-8	4	25
85	Intramolecular dehydration of biomass-derived sugar alcohols in high-temperature water. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 2714-2722	3.6	24
84	Gasification of Organosolv-lignin Over Charcoal Supported Noble Metal Salt Catalysts in Supercritical Water. <i>Topics in Catalysis</i> , 2012 , 55, 889-896	2.3	23
83	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	13.1	22
82	Active sites in modified copper catalysts for selective liquid phase dehydration of aqueous glycerol to acetol. <i>RSC Advances</i> , 2013 , 3, 16499	3.7	21

81	Intramolecular dehydration of mannitol in high-temperature liquid water without acid catalysts. <i>RSC Advances</i> , 2014 , 4, 45575-45578	3.7	20
80	Conversion of Cellulose to Lactic Acid by Using ZrO ₂ /Al ₂ O ₃ Catalysts. <i>Catalysts</i> , 2017 , 7, 221	4	19
79	Effect of steam during catalytic cracking of n-hexane using P-ZSM-5 catalyst. <i>Catalysis Communications</i> , 2015 , 69, 20-24	3.2	19
78	Dehydration of Triol Compounds in High-Temperature Liquid Water Under High-Pressure Carbon Dioxide. <i>Topics in Catalysis</i> , 2010 , 53, 487-491	2.3	19
77	Surface catalytic reactions assisted by gas phase molecules: activation of reaction intermediates. <i>Journal of Molecular Catalysis A</i> , 2000 , 163, 67-77		19
76	Effect of carbon number on the production of propylene and ethylene by catalytic cracking of straight-chain alkanes over phosphorus-modified ZSM-5. <i>Fuel Processing Technology</i> , 2020 , 202, 106367	7.2	17
75	Gaseous fuel production from nonrecyclable paper wastes by using supported metal catalysts in high-temperature liquid water. <i>ChemSusChem</i> , 2010 , 3, 737-41	8.3	17
74	Energy-dispersive XAFS study on the decarbonylation process of Mo(CO) ₆ in NaY zeolite. <i>Catalysis Letters</i> , 2001 , 71, 203-208	2.8	17
73	Characterization of clay intercalated cobalt-salen catalysts for the oxidation of p-cresol. <i>Applied Catalysis A: General</i> , 2009 , 370, 16-23	5.1	16
72	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	1.8	14
71	Kinetic analysis of 4-isopropylphenol hydrogenation over activated carbon-supported rhodium catalysts in supercritical carbon dioxide solvent. <i>Green Chemistry</i> , 2012 , 14, 633	10	14
70	Cobaltporphyrin-adsorbed carbon black: highly efficient electrocatalysts for oxygen reduction. <i>Polymers for Advanced Technologies</i> , 2005 , 16, 702-705	3.2	14
69	Continuous dehydration of 1,4-butanediol in flowing liquid water with carbon dioxide. <i>Catalysis Communications</i> , 2015 , 68, 6-10	3.2	13
68	Furfural production from xylose and bamboo powder over chabazite-type zeolite prepared by interzeolite conversion method. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017 , 79, 55-59	5.3	13
67	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
66	Effect of extraction on furfural production by solid acid-catalyzed xylose dehydration in water. <i>Journal of Supercritical Fluids</i> , 2019 , 144, 14-18	4.2	13
65	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	1.8	12
64	Supercritical Water Gasification of Organosolv Lignin over a Graphite-supported Ruthenium Metal Catalyst. <i>Chemistry Letters</i> , 2012 , 41, 1453-1455	1.7	12

63	Stereoselective hydrogenation of 4-alkylphenols over carbon-supported rhodium catalyst in supercritical carbon dioxide solvent. <i>Catalysis Communications</i> , 2009 , 10, 1702-1705	3.2	12
62	Lignin Gasification over Charcoal-supported Palladium and Nickel Bimetal Catalysts in Supercritical Water. <i>Chemistry Letters</i> , 2010 , 39, 1251-1253	1.7	12
61	pH-sensitive liposome retaining Fe-porphyrin as SOD mimic for novel anticancer drug delivery system. <i>Polymers for Advanced Technologies</i> , 2007 , 18, 82-87	3.2	12
60	A new aspect of catalysis at designed surfaces: the role of gas phase molecules in surface catalytic reactions. <i>Journal of Molecular Catalysis A</i> , 1999 , 146, 65-76		12
59	Continuous Catalytic Oxidation of Glycerol to Carboxylic Acids Using Nanosized Gold/Alumina Catalysts and a Liquid-Phase Flow Reactor. <i>ACS Omega</i> , 2018 , 3, 13862-13868	3.9	12
58	P-ZSM-5 Pretreated by High-Temperature Calcination as Durable Catalysts for Steam Cracking of n-Hexane. <i>Catalysis Letters</i> , 2014 , 144, 44-49	2.8	11
57	Supercritical water gasification of ethanol production waste over graphite supported ruthenium catalyst. <i>Journal of Molecular Catalysis A</i> , 2014 , 388-389, 148-153		11
56	Cyclization of alkanediols in high-temperature liquid water with high-pressure carbon dioxide. <i>Catalysis Today</i> , 2012 , 185, 302-305	5.3	11
55	Enzyme Immobilization in Mesoporous Silica for Enhancement of Thermostability. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 104-109	1.3	10
54	Catalytic Activity of Molecular Rhenium Sulfide Clusters [Re ₆ S ₈ (OH) ₆ (H ₂ O) _n](4 \bar{B})](n = 0, 2, 4, 6) with Retention of the Octahedral Metal Frameworks: Dehydrogenation and Dehydration of 1,4-Butanediol. <i>Journal of Cluster Science</i> , 2014 , 25, 1203-1224	3	10
53	Thermodynamic Equilibria between Polyalcohols and Cyclic Ethers in High-Temperature Liquid Water. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 2666-2668	2.8	10
52	Surface-modified mesoporous silicas as recyclable adsorbents of an endocrine disrupter, bisphenol A. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 1689-94	1.3	10
51	Dispersive XAFS Study on Cu and Mo Species in Zeolites During the Catalyst Preparation. <i>Topics in Catalysis</i> , 2002 , 18, 53-58	2.3	10
50	Surface modification of H-ZSM-5 with organo-disilane compound for propylene production from dimethyl ether. <i>Microporous and Mesoporous Materials</i> , 2019 , 280, 219-226	5.3	10
49	One-pot Conversion from Lignocellulosic Biomass to Isosorbide. <i>Journal of the Japan Petroleum Institute</i> , 2016 , 59, 155-159	1	9
48	Purification of hydrocarbons from aromatic sulfur compounds by supercritical carbon dioxide extraction. <i>Journal of Supercritical Fluids</i> , 2010 , 55, 122-127	4.2	9
47	Particle-size Effects of Activated Carbon-supported Rhodium Catalysts on Hydrogenation of Naphthalene in Supercritical Carbon Dioxide Solvent. <i>Chemistry Letters</i> , 2008 , 37, 734-735	1.7	9
46	Time-resolved energy-dispersive XAFS study on the reduction process of Cu-ZSM-5 catalysts. <i>Journal of Synchrotron Radiation</i> , 2001 , 8, 654-6	2.4	9

45	Biomass Valorization in High-temperature Liquid Water. <i>Journal of the Japan Petroleum Institute</i> , 2014 , 57, 155-163	1	9
44	Synthesis of Reconstituted Hemoglobins Containing Metalloporphyrin Derivatives and SOD Activity.. <i>Journal of Oleo Science</i> , 2003 , 52, 149-157	1.6	9
43	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	1.8	8
42	Graphite-supported rhodium catalysts for naphthalene hydrogenation in supercritical carbon dioxide solvent. <i>Catalysis Communications</i> , 2009 , 10, 1681-1684	3.2	8
41	Non-Cyanide Electroless Gold Plating Using Polyphenols as Reducing Agents. <i>Journal of the Electrochemical Society</i> , 2006 , 153, C63	3.9	8
40	Effect of Metal Catalysts on Bond Cleavage Reactions of Lignin Model Compounds in Supercritical Water. <i>Waste and Biomass Valorization</i> , 2020 , 11, 669-674	3.2	8
39	Controlled Oxidation of Dextran for Evolution of Polyether Segment Bearing Pendant Carboxyl Groups for Corrosion Inhibition Applications. <i>Polymer Journal</i> , 2006 , 38, 343-348	2.7	7
38	Direct conversion of lignocellulosic biomass into aromatic monomers over supported metal catalysts in supercritical water. <i>Molecular Catalysis</i> , 2019 , 477, 110557	3.3	6
37	Surface Modification of Reconstituted Hemoglobins Containing SOD-Active Metalloporphyrins. <i>Journal of Oleo Science</i> , 2005 , 54, 115-123	1.6	6
36	Chemical Recycling Process of Poly(Ethylene Terephthalate) in High-Temperature Liquid Water. <i>Journal of Chemical Engineering of Japan</i> , 2010 , 43, 313-317	0.8	5
35	DXAFS study on the decarbonylation process of Mo(CO) ₆ in NaY supercages. <i>Journal of Synchrotron Radiation</i> , 2001 , 8, 628-30	2.4	5
34	Studies of the Surface Deuterioxyl Group and Adsorbed D ₂ O on γ -Al ₂ O ₃ Using Picosecond Infrared Pump-Probe Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 11456-11461	3.4	5
33	Synthesis of Polymeric Reconstituted Hemoglobins as Superoxide Dismutase Mimics Designed for Long-term Circulation Maintenance. <i>Journal of Oleo Science</i> , 2005 , 54, 413-418	1.6	5
32	Transfer Hydrogenation of 4-Propylphenol Using Ethanol and Water over Charcoal-supported Palladium Catalyst. <i>Chemistry Letters</i> , 2016 , 45, 643-645	1.7	4
31	Liquid Phase Hydrogenation of Methyl Levulinate over Supported Ruthenium Metal Catalyst. <i>Journal of the Japan Petroleum Institute</i> , 2012 , 55, 376-379	1	4
30	Supercritical Water Gasification of Residue from Ethanol Production from Japanese Cedar. <i>Energy & Fuels</i> , 2013 , 27, 3861-3866	4.1	4
29	Characterization and catalytic performance of designed surfaces. <i>Journal of Molecular Catalysis A</i> , 2000 , 158, 67-83		4
28	Continuous production of glyceric acid and lactic acid by catalytic oxidation of glycerol over an AuPt/Al ₂ O ₃ bimetallic catalyst using a liquid-phase flow reactor. <i>Catalysis Today</i> , 2021 , 375, 191-196	5.3	4

27	Depolymerization of Poly(butylene terephthalate) into Terephthalic Acid and Tetrahydrofuran in High-temperature Liquid Water. <i>Chemistry Letters</i> , 2015 , 44, 1312-1314	1.7	3
26	Emulsifying potency of new amino acid-type surfactant (II): stable water-in-oil (W/O) emulsions containing 85 wt% inner water phase. <i>Chemical and Pharmaceutical Bulletin</i> , 2001 , 49, 1331-5	1.9	3
25	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	1	3
24	Lignin Depolymerization into Aromatic Monomers Using Supported Metal Catalysts in Supercritical Water. <i>Journal of the Japan Petroleum Institute</i> , 2020 , 63, 221-227	1	3
23	Dehydration of erythritol in high-temperature carbonated water. <i>Molecular Catalysis</i> , 2019 , 477, 110519	3.3	2
22	Stability of Copper Nitride Nanoparticles under High Humidity and in Solutions with Different Acidity. <i>Chemistry Letters</i> , 2015 , 44, 755-757	1.7	2
21	Utilization of Supercritical Fluid for Catalytic Thermochemical Conversions of Woody-Biomass Related Compounds 2015 , 437-453		2
20	Phase Behavior of Hydrogenation of 2-tert-Butylphenol over a Charcoal-Supported Rhodium Catalyst in Carbon Dioxide Solvent <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 1610-1612	2.8	2
19	Novel Electrocatalysts for Oxygen Reduction Using Cobaltporphyrins That Undergo Facile Electropolymerization. <i>Kobunshi Ronbunshu</i> , 2006 , 63, 182-188	0	2
18	Formation of Active Sites for the NO + CO Reaction over Palladium Catalysts Supported on Mesoporous Silica. <i>Bulletin of the Chemical Society of Japan</i> , 2005 , 78, 192-194	5.1	2
17	Solvolysis of benzyl phenyl ether in high-temperature aqueous methanol solution under high-pressure carbon dioxide. <i>Green Chemistry</i> , 2021 , 23, 1658-1664	10	2
16	Environmentally Benign Chemicals Production from Unused Resources using Water Solvent. <i>Current Environmental Engineering</i> , 2018 , 5, 13-19	1.6	1
15	Preparation of Novel Conductive Polymer Ligand-Coated Carbon Particles by Electropolymerization of Pyridylthiophene and Application as Metal Complex Catalysts for Oxygen Reduction. <i>Kobunshi Ronbunshu</i> , 2006 , 63, 189-195	0	1
14	Novel Approach for the Preparation of Metal Containing Mesoporous Silica Using Solubilization of Fatty Acid Salt. <i>Chemistry Letters</i> , 2005 , 34, 346-347	1.7	1
13	Effect of Carbon Dioxide Pressure on 4-t-Butylphenol Hydrogenation Activity of Supported Rhodium Catalyst. <i>Journal of the Japan Petroleum Institute</i> , 2013 , 56, 165-170	1	1
12	Kinetic analyses of intramolecular dehydration of hexitols in high-temperature water. <i>Carbohydrate Research</i> , 2020 , 487, 107880	2.9	1
11	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	1.7	1
10	Hydrogenolysis of Furfuryl Alcohol to 1,2-Pentanediol Over Supported Ruthenium Catalysts. <i>ChemistryOpen</i> , 2021 , 10, 731-736	2.3	1

9	Effect of Catalyst Support on Aromatic Monomer Production from Lignocellulosic Biomass Over Pt-Based Catalysts. <i>Waste and Biomass Valorization</i> , 2021 , 12, 6081	3.2	○
8	Magnesium Oxide-Catalyzed Conversion of Chitin to Lactic Acid. <i>ChemistryOpen</i> , 2021 , 10, 308-315	2.3	○
7	Benzyl methyl ether production from benzyl alcohol and methanol in carbonic water. <i>Catalysis Today</i> , 2018 , 309, 31-34	5.3	○
6	Efficient Conversion of Glycerol into High Value-Added Chemicals by Partial Oxidation. <i>JAOCS, Journal of the American Oil Chemists Society</i> , 2020 , 97, 1365-1370	1.8	
5	Functionalization of Mesoporous Materials by Modification of Surface Hydroxyl Groups. <i>Journal of the Japan Society of Colour Material</i> , 2004 , 77, 133-137		○
4	Plastics Obtained from Woody Biomass. <i>Seikei-Kakou</i> , 2018 , 30, 573-576		○
3	Magnesium Oxide-Catalyzed Conversion of Chitin to Lactic Acid. <i>ChemistryOpen</i> , 2021 , 10, 307	2.3	
2	Hydrogenolysis of benzofuran using aqueous ethanol solution over graphite-supported platinum catalyst. <i>Journal of the Indian Chemical Society</i> , 2021 , 98, 100021		
1	Assemblies of two multimeric enzymes using mesoporous silica microspheres toward cascade reaction fields. <i>Biochemical Engineering Journal</i> , 2022 , 182, 108416	4.2	