

Aritomo Yamaguchi

List of Publications by Year in descending order

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118
papers

2,784
citations

159358

30
h-index

205818

48
g-index

120
all docs

120
docs citations

120
times ranked

3135
citing authors

#	ARTICLE	IF	CITATIONS
1	Modifying Carbon Particles with Polypyrrole for Adsorption of Cobalt Ions as Electrocatatytic Site for Oxygen Reduction. <i>Chemistry of Materials</i> , 2005, 17, 4278-4281.	3.2	226
2	Sorbitol dehydration in high temperature liquid water. <i>Green Chemistry</i> , 2011, 13, 873.	4.6	129
3	Reversible Release Control of an Oily Substance Using Photoresponsive Micelles. <i>Langmuir</i> , 2001, 17, 6072-6076.	1.6	116
4	Time Scale and Elementary Steps of CO-Induced Disintegration of Surface Rhodium Clusters. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 4795-4799.	7.2	116
5	Catalytic activation and reforming of methane on supported palladium clusters. <i>Journal of Catalysis</i> , 2010, 274, 52-63.	3.1	106
6	Hydrogen production from woody biomass over supported metal catalysts in supercritical water. <i>Catalysis Today</i> , 2009, 146, 192-195.	2.2	100
7	Micellar Cobaltporphyrin Nanorods in Alcohols. <i>Journal of the American Chemical Society</i> , 2004, 126, 11128-11129.	6.6	69
8	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.	4.6	64
9	Electrochemical Control of Vesicle Formation with a Double-Tailed Cationic Surfactant Bearing Ferrocenyl Moieties. <i>Langmuir</i> , 2001, 17, 8044-8048.	1.6	63
10	Catalytic production of sugar alcohols from lignocellulosic biomass. <i>Catalysis Today</i> , 2016, 265, 199-202.	2.2	57
11	Lignin Gasification over Supported Ruthenium Trivalent Salts in Supercritical Water. <i>Energy & Fuels</i> , 2008, 22, 1485-1492.	2.5	56
12	Gasification of Sugarcane Bagasse over Supported Ruthenium Catalysts in Supercritical Water. <i>Energy & Fuels</i> , 2012, 26, 3179-3186.	2.5	52
13	Combined in situ QXAFS and FTIR analysis of a Ni phosphide catalyst under hydrodesulfurization conditions. <i>Journal of Catalysis</i> , 2012, 286, 165-171.	3.1	52
14	Deactivation of ZSM-5 zeolite during catalytic steam cracking of n-hexane. <i>Fuel Processing Technology</i> , 2014, 126, 343-349.	3.7	49
15	Conversion of cellulose into lactic acid using zirconium oxide catalysts. <i>RSC Advances</i> , 2017, 7, 18561-18568.	1.7	49
16	Time-resolved DXAFS study on the reduction processes of Cu cations in ZSM-5. <i>Catalysis Letters</i> , 2000, 68, 139-145.	1.4	48
17	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.	2.2	45
18	Electrochemical sensor for superoxide anion radical using polymeric iron porphyrin complexes containing axial 1-methylimidazole ligand as cytochromec mimics. <i>Polymers for Advanced Technologies</i> , 2005, 16, 287-292.	1.6	44

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19	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.	3.2	43
20	Direct production of sugar alcohols from wood chips using supported platinum catalysts in water. <i>Catalysis Communications</i> , 2014, 54, 22-26.	1.6	40
21	Bond cleavage of lignin model compounds into aromatic monomers using supported metal catalysts in supercritical water. <i>Scientific Reports</i> , 2017, 7, 46172.	1.6	40
22	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.	3.7	39
23	In Situ Time-Resolved Energy-Dispersive XAFS Study on the Reduction Processes of Cu ²⁺ /ZSM-5 Catalysts. <i>Bulletin of the Chemical Society of Japan</i> , 2001, 74, 801-808.	2.0	38
24	Acetophenone hydrogenation over a Pd catalyst in the presence of H ₂ O and CO ₂ . <i>Chemical Communications</i> , 2011, 47, 11546.	2.2	38
25	EXAFS Study on Structural Change of Charcoal-supported Ruthenium Catalysts during Lignin Gasification in Supercritical Water. <i>Catalysis Letters</i> , 2008, 122, 188-195.	1.4	34
26	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.	1.2	33
27	One-pot conversion of cellulose to isosorbide using supported metal catalysts and ion-exchange resin. <i>Catalysis Communications</i> , 2015, 67, 59-63.	1.6	33
28	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.	1.2	32
29	Active sites in modified copper catalysts for selective liquid phase dehydration of aqueous glycerol to acetol. <i>RSC Advances</i> , 2013, 3, 16499.	1.7	32
30	Liposomal Surface-Loading of Water-Soluble Cationic Iron(III) Porphyrins as Anticancer Drugs. <i>Molecular Pharmaceutics</i> , 2004, 1, 387-389.	2.3	31
31	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.	1.6	31
32	Electrochemical Synthesis of a Polypyrrole Thin Film with Supercritical Carbon Dioxide as a Solvent. <i>Langmuir</i> , 2005, 21, 12303-12308.	1.6	28
33	Intramolecular dehydration of biomass-derived sugar alcohols in high-temperature water. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 2714-2722.	1.3	27
34	Enhancement of Glycerol Conversion to Acetol in High-temperature Liquid Water by High-pressure Carbon Dioxide. <i>Chemistry Letters</i> , 2008, 37, 926-927.	0.7	26
35	Gasification of Organosolv-lignin Over Charcoal Supported Noble Metal Salt Catalysts in Supercritical Water. <i>Topics in Catalysis</i> , 2012, 55, 889-896.	1.3	26
36	Conversion of Cellulose to Lactic Acid by Using ZrO ₂ -Al ₂ O ₃ Catalysts. <i>Catalysts</i> , 2017, 7, 221.	1.6	25

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37	Effect of steam during catalytic cracking of n-hexane using P-ZSM-5 catalyst. <i>Catalysis Communications</i> , 2015, 69, 20-24.	1.6	24
38	Intramolecular dehydration of mannitol in high-temperature liquid water without acid catalysts. <i>RSC Advances</i> , 2014, 4, 45575-45578.	1.7	23
39	Surface catalytic reactions assisted by gas phase molecules: activation of reaction intermediates. <i>Journal of Molecular Catalysis A</i> , 2000, 163, 67-77.	4.8	22
40	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.	5.5	22
41	Effect of extraction on furfural production by solid acid-catalyzed xylose dehydration in water. <i>Journal of Supercritical Fluids</i> , 2019, 144, 14-18.	1.6	22
42	Energy-dispersive XAFS study on the decarbonylation process of Mo(CO) ₆ in NaY zeolite. <i>Catalysis Letters</i> , 2001, 71, 203-208.	1.4	21
43	Dehydration of Triol Compounds in High-Temperature Liquid Water Under High-Pressure Carbon Dioxide. <i>Topics in Catalysis</i> , 2010, 53, 487-491.	1.3	20
44	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.	1.4	20
45	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.	0.7	20
46	Gaseous Fuel Production from Nonrecyclable Paper Wastes by Using Supported Metal Catalysts in High-Temperature Liquid Water. <i>ChemSusChem</i> , 2010, 3, 737-741.	3.6	19
47	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.	0.7	18
48	Characterization of clay intercalated cobalt-salen catalysts for the oxidation of p-cresol. <i>Applied Catalysis A: General</i> , 2009, 370, 16-23.	2.2	17
49	Kinetic analysis of 4-isopropylphenol hydrogenation over activated carbon-supported rhodium catalysts in supercritical carbon dioxide solvent. <i>Green Chemistry</i> , 2012, 14, 633.	4.6	16
50	Enzyme Immobilization in Mesoporous Silica for Enhancement of Thermostability. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 104-109.	0.9	16
51	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.	4.8	15
52	Cobaltporphyrin-adsorbed carbon black: highly efficient electrocatalysts for oxygen reduction. <i>Polymers for Advanced Technologies</i> , 2005, 16, 702-705.	1.6	15
53	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.	2.7	15
54	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.	1.6	15

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55	Continuous dehydration of 1,4-butanediol in flowing liquid water with carbon dioxide. <i>Catalysis Communications</i> , 2015, 68, 6-10.	1.6	14
56	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.	2.2	14
57	Continuous production of glyceric acid and lactic acid by catalytic oxidation of glycerol over an Au-Pt/Al ₂ O ₃ bimetallic catalyst using a liquid-phase flow reactor. <i>Catalysis Today</i> , 2021, 375, 191-196.	2.2	14
58	Stereoselective hydrogenation of 4-alkylphenols over carbon-supported rhodium catalyst in supercritical carbon dioxide solvent. <i>Catalysis Communications</i> , 2009, 10, 1702-1705.	1.6	13
59	Depolymerization of Poly(ethylene terephthalate) to Terephthalic Acid and Ethylene Glycol in High-temperature Liquid Water. <i>Chemistry Letters</i> , 2009, 38, 268-269.	0.7	13
60	Lignin Gasification over Charcoal-supported Palladium and Nickel Bimetal Catalysts in Supercritical Water. <i>Chemistry Letters</i> , 2010, 39, 1251-1253.	0.7	13
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.	1.6	12
62	Supercritical Water Gasification of Organosolv Lignin over a Graphite-supported Ruthenium Metal Catalyst. <i>Chemistry Letters</i> , 2012, 41, 1453-1455.	0.7	12
63	Cyclization of alkanediols in high-temperature liquid water with high-pressure carbon dioxide. <i>Catalysis Today</i> , 2012, 185, 302-305.	2.2	12
64	Catalytic Activity of Molecular Rhenium Sulfide Clusters [Re ₆ S ₈ (OH) ₆ (H ₂ O) _n](4 ⁻ⁿ) ⁿ⁻ (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.	1.7	12
65	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
66	Dispersive XAFS Study on Cu and Mo Species in Zeolites During the Catalyst Preparation. <i>Topics in Catalysis</i> , 2002, 18, 53-58.	1.3	11
67	Graphite-supported rhodium catalysts for naphthalene hydrogenation in supercritical carbon dioxide solvent. <i>Catalysis Communications</i> , 2009, 10, 1681-1684.	1.6	11
68	Lignin Depolymerization into Aromatic Monomers Using Supported Metal Catalysts in Supercritical Water. <i>Journal of the Japan Petroleum Institute</i> , 2020, 63, 221-227.	0.4	11
69	Surface-Modified Mesoporous Silicas as Recyclable Adsorbents of an Endocrine Disrupter, Bisphenol A. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 1689-1694.	0.9	10
70	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.	0.7	10
71	Thermodynamic Equilibria between Polyalcohols and Cyclic Ethers in High-Temperature Liquid Water. <i>Journal of Chemical & Engineering Data</i> , 2009, 54, 2666-2668.	1.0	10
72	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.	0.7	10

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73	Synthesis of Reconstituted Hemoglobins Containing Metalloporphyrin Derivatives and SOD Activity.. Journal of Oleo Science, 2003, 52, 149-157.	0.6	10
74	Time-resolved energy-dispersive XAFS study on the reduction process of Cu-ZSM-5 catalysts. Journal of Synchrotron Radiation, 2001, 8, 654-656.	1.0	9
75	Controlled Oxidation of Dextran for Evolution of Polyether Segment Bearing Pendant Carboxyl Groups for Corrosion Inhibition Applications. Polymer Journal, 2006, 38, 343-348.	1.3	9
76	Purification of hydrocarbons from aromatic sulfur compounds by supercritical carbon dioxide extraction. Journal of Supercritical Fluids, 2010, 55, 122-127.	1.6	9
77	One-pot Conversion from Lignocellulosic Biomass to Isosorbide. Journal of the Japan Petroleum Institute, 2016, 59, 155-159.	0.4	9
78	Effect of Metal Catalysts on Bond Cleavage Reactions of Lignin Model Compounds in Supercritical Water. Waste and Biomass Valorization, 2020, 11, 669-674.	1.8	9
79	Biomass Valorization in High-temperature Liquid Water. Journal of the Japan Petroleum Institute, 2014, 57, 155-163.	0.4	9
80	Non-Cyanide Electroless Gold Plating Using Polyphenols as Reducing Agents. Journal of the Electrochemical Society, 2006, 153, C63.	1.3	8
81	Direct conversion of lignocellulosic biomass into aromatic monomers over supported metal catalysts in supercritical water. Molecular Catalysis, 2019, 477, 110557.	1.0	8
82	Characterization and catalytic performance of designed surfaces. Journal of Molecular Catalysis A, 2000, 158, 67-83.	4.8	6
83	Chemical Recycling Process of Poly(Ethylene Terephthalate) in High-Temperature Liquid Water. Journal of Chemical Engineering of Japan, 2010, 43, 313-317.	0.3	6
84	Transfer Hydrogenation of 4-Propylphenol Using Ethanol and Water over Charcoal-supported Palladium Catalyst. Chemistry Letters, 2016, 45, 643-645.	0.7	6
85	Hydrogenolysis of Furfuryl Alcohol to 1,2-Pentanediol Over Supported Ruthenium Catalysts. ChemistryOpen, 2021, 10, 731-736.	0.9	6
86	Surface Modification of Reconstituted Hemoglobins Containing SOD-Active Metalloporphyrins. Journal of Oleo Science, 2005, 54, 115-123.	0.6	6
87	Studies of the Surface Deuterioxyl Group and Adsorbed D2O on $\hat{1}^3$ -Al2O3 Using Picosecond Infrared Pump-Probe Spectroscopy. Journal of Physical Chemistry B, 2001, 105, 11456-11461.	1.2	5
88	DXAFS study on the decarbonylation process of Mo(CO)6in NaY supercages. Journal of Synchrotron Radiation, 2001, 8, 628-630.	1.0	5
89	Solvolysis of benzyl phenyl ether in high-temperature aqueous methanol solution under high-pressure carbon dioxide. Green Chemistry, 2021, 23, 1658-1664.	4.6	5
90	Synthesis of Polymeric Reconstituted Hemoglobins as Superoxide Dismutase Mimics Designed for Long-term Circulation Maintenance. Journal of Oleo Science, 2005, 54, 413-418.	0.6	5

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91	Emulsifying Potency of New Amino Acid-Type Surfactant (II): Stable Water-in-Oil (W/O) Emulsions Containing 85 wt% Inner Water Phase.. Chemical and Pharmaceutical Bulletin, 2001, 49, 1331-1335.	0.6	4
92	Novel Electrocatalysts for Oxygen Reduction Using Cobaltporphyrins That Undergo Facile Electropolymerization. Kobunshi Ronbunshu, 2006, 63, 182-188.	0.2	4
93	Liquid Phase Hydrogenation of Methyl Levulinate over Supported Ruthenium Metal Catalyst. Journal of the Japan Petroleum Institute, 2012, 55, 376-379.	0.4	4
94	Supercritical Water Gasification of Residue from Ethanol Production from Japanese Cedar. Energy & Fuels, 2013, 27, 3861-3866.	2.5	4
95	Utilization of Supercritical Fluid for Catalytic Thermochemical Conversions of Woody-Biomass Related Compounds. , 2015, , 437-453.		4
96	Formation of Active Sites for the NO + CO Reaction over Palladium Catalysts Supported on Mesoporous Silica. Bulletin of the Chemical Society of Japan, 2005, 78, 192-194.	2.0	3
97	Preparation of Novel Conductive Polymer Ligand-Coated Carbon Particles by Electropolymerization of Pyridylthiophene and Application as Metal Complex Catalysts for Oxygen Reduction. Kobunshi Ronbunshu, 2006, 63, 189-195.	0.2	3
98	Depolymerization of Poly(butylene terephthalate) into Terephthalic Acid and Tetrahydrofuran in High-temperature Liquid Water. Chemistry Letters, 2015, 44, 1312-1314.	0.7	3
99	Dehydration of erythritol in high-temperature carbonated water. Molecular Catalysis, 2019, 477, 110519.	1.0	3
100	Kinetic analyses of intramolecular dehydration of hexitols in high-temperature water. Carbohydrate Research, 2020, 487, 107880.	1.1	3
101	Efficient Conversion of Glycerol into High Value-Added Chemicals by Partial Oxidation. JAOCS, Journal of the American Oil Chemists' Society, 2020, 97, 1365-1370.	0.8	3
102	Magnesium Oxide-Catalyzed Conversion of Chitin to Lactic Acid. ChemistryOpen, 2021, 10, 308-315.	0.9	3
103	Hydrogenation of 4-Propylphenol over Carbon-supported Palladium Catalyst without External Hydrogen: Effect of Carbon Support and Palladium Loading. Chemistry Letters, 2021, 50, 431-434.	0.7	3
104	Aromatic Monomer Production from Lignin Depolymerization Predicted from Bond Cleavage Data for Lignin Model Compounds. Journal of the Japan Petroleum Institute, 2019, 62, 228-233.	0.4	3
105	Highly Precise and Sensitive Polymerase Chain Reaction Using Mesoporous Silica-Immobilized Enzymes. ACS Applied Materials & Interfaces, 2022, 14, 29483-29490.	4.0	3
106	Phase Behavior of Hydrogenation of 2-tert-Butylphenol over a Charcoal-Supported Rhodium Catalyst in Carbon Dioxide Solvent. Journal of Chemical & Engineering Data, 2009, 54, 1610-1612.	1.0	2
107	Stability of Copper Nitride Nanoparticles under High Humidity and in Solutions with Different Acidity. Chemistry Letters, 2015, 44, 755-757.	0.7	2
108	Effect of Catalyst Support on Aromatic Monomer Production from Lignocellulosic Biomass Over Pt-Based Catalysts. Waste and Biomass Valorization, 2021, 12, 6081-6089.	1.8	2

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109	Novel Approach for the Preparation of Metal Containing Mesoporous Silica Using Solubilization of Fatty Acid Salt. <i>Chemistry Letters</i> , 2005, 34, 346-347.	0.7	1
110	Benzyl methyl ether production from benzyl alcohol and methanol in carbonic water. <i>Catalysis Today</i> , 2018, 309, 31-34.	2.2	1
111	Environmentally Benign Chemicals Production from Unused Resources using Water Solvent. <i>Current Environmental Engineering</i> , 2018, 5, 13-19.	0.6	1
112	Hydrogenolysis of benzofuran using aqueous ethanol solution over graphite-supported platinum catalyst. <i>Journal of the Indian Chemical Society</i> , 2021, 98, 100021.	1.3	1
113	4-Propylphenol Hydrogenation over Pt-Pd Bimetallic Catalyst in Aqueous Ethanol Solution without External Hydrogen. <i>Chemistry Letters</i> , 2021, 50, 1968-1971.	0.7	1
114	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.	0.4	1
115	Assemblies of two multimeric enzymes using mesoporous silica microspheres toward cascade reaction fields. <i>Biochemical Engineering Journal</i> , 2022, 182, 108416.	1.8	1
116	Functionalization of Mesoporous Materials by Modification of Surface Hydroxyl Groups. <i>Journal of the Japan Society of Colour Material</i> , 2004, 77, 133-137.	0.0	0
117	Magnesium Oxide-catalyzed Conversion of Chitin to Lactic Acid. <i>ChemistryOpen</i> , 2021, 10, 307-307.	0.9	0
118	Plastics Obtained from Woody Biomass. <i>Seikei-Kakou</i> , 2018, 30, 573-576.	0.0	0