

Norihito Hiyoshi

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112 papers	2,686 citations	26 h-index	47 g-index
115 ext. papers	2,915 ext. citations	4.9 avg, IF	5.11 L-index

#	Paper	IF	Citations
112	Adsorption characteristics of carbon dioxide on organically functionalized SBA-15. <i>Microporous and Mesoporous Materials</i> , 2005 , 84, 357-365	5.3	486
111	Adsorption of Carbon Dioxide on Amine Modified SBA-15 in the Presence of Water Vapor. <i>Chemistry Letters</i> , 2004 , 33, 510-511	1.7	163
110	Sorbitol dehydration in high temperature liquid water. <i>Green Chemistry</i> , 2011 , 13, 873	10	119
109	Hydrogen production from woody biomass over supported metal catalysts in supercritical water. <i>Catalysis Today</i> , 2009 , 146, 192-195	5.3	84
108	Effect of Sulfur on Catalytic Gasification of Lignin in Supercritical Water. <i>Energy & Fuels</i> , 2007 , 21, 1400-1405	4.1	71
107	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
106	Thin-Layered Sheets of VOHPO ₄ ·0.5H ₂ O Prepared from VOPO ₄ ·2H ₂ O by Intercalation/Exfoliation/Reduction in Alcohol. <i>Chemistry of Materials</i> , 2002 , 14, 3882-3888	9.6	60
105	Facile Formation of Lactic Acid from a Triose Sugar in Water over Niobium Oxide with a Deformed Orthorhombic Phase. <i>ACS Catalysis</i> , 2018 , 8, 283-290	13.1	60
104	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
103	Mechanistic Study of Hydrogen-Driven Deoxydehydration over Ceria-Supported Rhenium Catalyst Promoted by Au Nanoparticles. <i>ACS Catalysis</i> , 2018 , 8, 584-595	13.1	51
102	Lignin Gasification over Supported Ruthenium Trivalent Salts in Supercritical Water. <i>Energy & Fuels</i> , 2008 , 22, 1485-1492	4.1	50
101	Adsorption of Carbon Dioxide on Aminosilane-modified Mesoporous Silica. <i>Journal of the Japan Petroleum Institute</i> , 2005 , 48, 29-36	1	47
100	Continuous syntheses of Pd@Pt and Cu@Ag core-shell nanoparticles using microwave-assisted core particle formation coupled with galvanic metal displacement. <i>Nanoscale</i> , 2014 , 6, 8720-5	7.7	43
99	Deactivation of ZSM-5 zeolite during catalytic steam cracking of n-hexane. <i>Fuel Processing Technology</i> , 2014 , 126, 343-349	7.2	41
98	Gasification of Sugarcane Bagasse over Supported Ruthenium Catalysts in Supercritical Water. <i>Energy & Fuels</i> , 2012 , 26, 3179-3186	4.1	40
97	Subcritical Water Regeneration of Supported Ruthenium Catalyst Poisoned by Sulfur. <i>Energy & Fuels</i> , 2008 , 22, 845-849	4.1	39
96	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

95	Oxidative coupling of methane over alkali chloride-MnNa ₂ WO ₄ /SiO ₂ catalysts: Promoting effect of molten alkali chloride. <i>Fuel Processing Technology</i> , 2015 , 133, 29-34	7.2	35
94	One-pot catalytic selective synthesis of 1,4-butanediol from 1,4-anhydroerythritol and hydrogen. <i>Green Chemistry</i> , 2018 , 20, 2547-2557	10	33
93	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
92	Biphenyl hydrogenation over supported transition metal catalysts under supercritical carbon dioxide solvent. <i>Applied Catalysis A: General</i> , 2005 , 288, 43-47	5.1	32
91	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
90	A Microporous Aluminosilicate with 12-, 12-, and 8-Ring Pores and Isolated 8-Ring Channels. <i>Journal of the American Chemical Society</i> , 2017 , 139, 7989-7997	16.4	30
89	Stereoselective hydrogenation of tert-butylphenols over charcoal-supported rhodium catalyst in supercritical carbon dioxide solvent. <i>Journal of Catalysis</i> , 2007 , 252, 57-68	7.3	30
88	Ring hydrogenation of naphthalene and 1-naphthol over supported metal catalysts in supercritical carbon dioxide solvent. <i>Catalysis Today</i> , 2006 , 115, 248-253	5.3	28
87	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
86	Acidic Ultrafine Tungsten Oxide Molecular Wires for Cellulosic Biomass Conversion. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 10234-8	16.4	26
85	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
84	Adsorption of Carbon Dioxide on Amine-modified MSU-H Silica in the Presence of Water Vapor. <i>Chemistry Letters</i> , 2008 , 37, 1266-1267	1.7	25
83	Enhanced Selectivity to Decalin in Naphthalene Hydrogenation under Supercritical Carbon Dioxide. <i>Chemistry Letters</i> , 2005 , 34, 424-425	1.7	25
82	Nanocrystalline sodalite: Preparation and application to epoxidation of 2-cyclohexen-1-one with hydrogen peroxide. <i>Applied Catalysis A: General</i> , 2012 , 419-420, 164-169	5.1	24
81	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
80	Low temperature hydrogenation of tetralin over supported rhodium catalysts in supercritical carbon dioxide solvent. <i>Applied Catalysis A: General</i> , 2006 , 310, 194-198	5.1	23
79	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
78	A zeolitic vanadotungstate family with structural diversity and ultrahigh porosity for catalysis. <i>Nature Communications</i> , 2018 , 9, 3789	17.4	22

77	Liquid phase oxidation of glycerol in batch and flow-type reactors with oxygen over AuPd nanoparticles stabilized in anion-exchange resin. <i>RSC Advances</i> , 2014 , 4, 33416-33423	3.7	21
76	Estimation of Gas Composition and Cage Occupancies in CH ₄ -C ₂ H ₆ Hydrates by CP-MAS ¹³ C NMR Technique. <i>Journal of the Japan Petroleum Institute</i> , 2007 , 50, 132-138	1	21
75	Low temperature hydrogenation of 1- and 2-phenylethanols with noble metal catalysts in supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2006 , 37, 87-93	4.2	21
74	Selective oxidation of n-butane in the presence of vanadyl pyrophosphates synthesized by intercalation/exfoliation/reduction of layered VOPO ₄ ·2H ₂ O in 2-butanol. <i>Journal of Catalysis</i> , 2004 , 221, 225-233	7.3	21
73	Tuning cis-decalin Selectivity in Naphthalene Hydrogenation Over Carbon-supported Rhodium Catalyst Under Supercritical Carbon dioxide. <i>Catalysis Letters</i> , 2006 , 106, 133-138	2.8	20
72	Preparation of catalyst precursors for selective oxidation of n-butane by exfoliation/reduction of VOPO ₄ ·2H ₂ O in primary alcohol. <i>Catalysis Today</i> , 2003 , 78, 281-290	5.3	20
71	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
70	Microscope Analysis of AuPd/TiO ₂ Glycerol Oxidation Catalysts Prepared by Deposition/Precipitation Method. <i>Catalysis Letters</i> , 2014 , 144, 2167-2175	2.8	19
69	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
68	Oxidative coupling of methane over Mn/Na ₂ WO ₄ /SiO ₂ catalyst with continuous supply of alkali chloride vapor. <i>Fuel Processing Technology</i> , 2016 , 151, 148-154	7.2	18
67	Synthesis of Crystalline Microporous Mo ₂ Bi Oxide for Selective (Amm)Oxidation of Light Alkanes. <i>Chemistry of Materials</i> , 2017 , 29, 2939-2950	9.6	17
66	Catalytic performance of MoO ₃ /FAU zeolite catalysts modified by Cu for reverse water gas shift reaction. <i>Applied Catalysis A: General</i> , 2020 , 592, 117415	5.1	17
65	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
64	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	1.7	16
63	Hydrogenation of Biphenyl over Charcoal-supported Metal Catalysts under Supercritical Carbon Dioxide. <i>Journal of the Japan Petroleum Institute</i> , 2004 , 47, 410-411	1	15
62	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
61	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
60	Reversible Adsorption of Carbon Dioxide on Amine-Modified SBA-15 from Flue Gas Containing Water Vapor. <i>Studies in Surface Science and Catalysis</i> , 2004 , 417-422	1.8	14

59	Amphiphilic Organic-Inorganic Hybrid Zeotype Aluminosilicate like a Nanoporous Crystallized Langmuir-Blodgett Film. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 7994-8	16.4	13
58	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
57	Encapsulation of Two Potassium Cations in Preyssler-Type Phosphotungstates: Preparation, Structural Characterization, Thermal Stability, Activity as an Acid Catalyst, and HAADF-STEM Images. <i>Inorganic Chemistry</i> , 2016 , 55, 11583-11592	5.1	12
56	Supercritical Water Gasification of Organosolv Lignin over a Graphite-supported Ruthenium Metal Catalyst. <i>Chemistry Letters</i> , 2012 , 41, 1453-1455	1.7	12
55	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
54	Lignin Gasification over Charcoal-supported Palladium and Nickel Bimetal Catalysts in Supercritical Water. <i>Chemistry Letters</i> , 2010 , 39, 1251-1253	1.7	12
53	Microstructures of V-P-O catalysts derived from VOHPO ₄ ·0.5H ₂ O of different crystallite sizes. <i>Journal of Molecular Catalysis A</i> , 2004 , 220, 103-112		12
52	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
51	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
50	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
49	Observation of microporous cesium salts of 12-tungstosilicic acid using scanning transmission electron microscopy. <i>Chemical Communications</i> , 2015 , 51, 9975-8	5.8	11
48	Cyclization of alkanediols in high-temperature liquid water with high-pressure carbon dioxide. <i>Catalysis Today</i> , 2012 , 185, 302-305	5.3	11
47	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
46	Synthesis of Keggin-Type Cobaltomolybdate-Based 3D Framework Material and Characterization Using Atomic-Scale HAADF-STEM and XANES. <i>Inorganic Chemistry</i> , 2017 , 56, 2042-2049	5.1	9
45	The Assembly of an All-Inorganic Porous Soft Framework from Metal Oxide Molecular Nanowires. <i>Chemistry - A European Journal</i> , 2017 , 23, 1972-1980	4.8	9
44	Acidic Ultrafine Tungsten Oxide Molecular Wires for Cellulosic Biomass Conversion. <i>Angewandte Chemie</i> , 2016 , 128, 10390-10394	3.6	9
43	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
42	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

41	Control of Stereoselectivity in 4-tert-Butylphenol Hydrogenation over a Carbon-supported Rhodium Catalyst by Carbon Dioxide Solvent. <i>Chemistry Letters</i> , 2006 , 35, 1060-1061	1.7	9
40	Synthesis of a Crystalline Orthorhombic Mo ₁₂ W ₁₂ O ₄₂ Oxide for Selective Oxidation of Acrolein. <i>Chemistry of Materials</i> , 2019 , 31, 1408-1417	9.6	8
39	Continuous syntheses of carbon-supported Pd and Pd@Pt core-shell nanoparticles using a flow-type single-mode microwave reactor.. <i>RSC Advances</i> , 2020 , 10, 6571-6575	3.7	8
38	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
37	Graphite-supported rhodium catalysts for naphthalene hydrogenation in supercritical carbon dioxide solvent. <i>Catalysis Communications</i> , 2009 , 10, 1681-1684	3.2	8
36	Novel Preparation of Vanadyl Pyrophosphate for Selective Oxidation of n-Butane Utilizing Intercalation and Exfoliation. <i>Chemistry Letters</i> , 2001 , 30, 484-485	1.7	8
35	Synthesis, crystal structure and characterization of novel open framework CHA-type aluminophosphate involving a chiral diamine. <i>Dalton Transactions</i> , 2016 , 45, 15193-15202	4.3	6
34	Discovery of a new crystalline phase: BiGeO ₂ (OH) ₂ (NO ₃). <i>CrystEngComm</i> , 2014 , 16, 10080-10088	3.3	6
33	Crystal structure, characterization and thermal stability of NH ₄ ⁺ -exchanged β -IT-type zeolite. <i>Microporous and Mesoporous Materials</i> , 2012 , 163, 42-50	5.3	6
32	Activity and Selectivity Behavior of 1,2-Epoxyethylbenzene Hydrogenation in Carbon Dioxide Solvent. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 9457-9460	3.9	5
31	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
30	Oxidation of n-butane over vanadyl pyrophosphates prepared from lamellar vanadyl alkylphosphates. <i>Catalysis Today</i> , 2001 , 71, 129-135	5.3	5
29	Vapor phase methylation of pyridine with CO ₂ over metal catalysts. <i>Applied Catalysis A: General</i> , 1999 , 185, 323-327	5.1	5
28	Preparation of plate-like copper nitride nanoparticles from a fatty acid copper(II) salt and detailed observations by high resolution transmission electron microscopy and high-angle annular dark-field scanning transmission electron microscopy. <i>Materials Letters</i> , 2015 , 139, 271-274	3.3	4
27	Synthesis of Fluoride-Containing High Dimensionally Structured Nb Oxide and Its Catalytic Performance for Acid Reactions. <i>Inorganic Chemistry</i> , 2020 , 59, 9086-9094	5.1	4
26	Synthesis of High Dimensionally Structured Mo-Fe Mixed Metal Oxide and Its Catalytic Activity for Selective Oxidation of Methanol. <i>Inorganic Chemistry</i> , 2020 , 59, 5252-5255	5.1	4
25	Structural Characterization of 2D Zirconomolybdate by Atomic Scale HAADF-STEM and XANES and Its Highly Stable Electrochemical Properties as a Li Battery Cathode. <i>Inorganic Chemistry</i> , 2017 , 56, 14306-14314	5.1	4
24	Solvothermal synthesis and characterization of a layered silicate including a large quantity of Al atom and its mesoporous derivatives. <i>Microporous and Mesoporous Materials</i> , 2014 , 191, 38-47	5.3	4

23	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
22	Partial oxidation kinetics of m-hydroxybenzyl alcohol with noble metal catalysts in supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2007 , 43, 295-302	4.2	4
21	Selective Hydrogenation of Naphthols to Tetralones over Supported Palladium Catalysts in Supercritical Carbon Dioxide Solvent. <i>Chemistry Letters</i> , 2006 , 35, 780-781	1.7	4
20	Multi-dimensional Crystal Structuring of Complex Metal Oxide Catalysts of Group V and VI Elements by Unit-Assembling. <i>Topics in Catalysis</i> , 2019 , 62, 1157-1168	2.3	4
19	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
18	Fabrication of Keggin-type Polyoxometalate Membranes at the Gas-Liquid Interface. <i>Langmuir</i> , 2020 , 36, 3958-3962	4	3
17	High dimensionally structured W-V oxides as highly effective catalysts for selective oxidation of toluene. <i>Catalysis Today</i> , 2021 , 363, 60-66	5.3	3
16	Dissolution/Recrystallization Formation of Huge Thin 2D Silicalite Lamella for Promoted Sorption. <i>Advanced Materials Interfaces</i> , 2020 , 7, 1901786	4.6	2
15	Keggin-type polyoxometalate nanosheets: synthesis and characterization via scanning transmission electron microscopy. <i>Chemical Communications</i> , 2018 , 54, 5217-5220	5.8	2
14	Utilization of Supercritical Fluid for Catalytic Thermochemical Conversions of Woody-Biomass Related Compounds 2015 , 437-453		2
13	Structural changes in ZIT zeolites related to cation-exchange treatments under aqueous and non-aqueous conditions. <i>Microporous and Mesoporous Materials</i> , 2014 , 190, 92-98	5.3	2
12	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
11	55 A highly selective vanadyl pyrophosphate synthesized by exfoliation-reduction in mixed alcohols for n-butane oxidation. <i>Studies in Surface Science and Catalysis</i> , 2003 , 145, 271-274	1.8	2
10	Vapor phase methylation of pyridine with CO ₂ and CO ₂ /H ₂ over a Ni catalyst. <i>Reaction Kinetics and Catalysis Letters</i> , 1999 , 67, 9-12		2
9	Stereoselective Aromatic Ring Hydrogenation over Supported Rhodium Catalysts in Supercritical Carbon Dioxide Solvent. <i>Chemical Record</i> , 2019 , 19, 1926-1934	6.6	1
8	Oxidation of Carbon Monoxide with Silver-exchanged Mordenite Containing Cobalt in Framework Sites. <i>Chemistry Letters</i> , 2011 , 40, 480-481	1.7	1
7	Continuous Toluene Hydrogenation System Using Compressed Carbon Dioxide. <i>Journal of Chemical Engineering of Japan</i> , 2010 , 43, 82-86	0.8	1
6	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

- 5 Observation of La-exchanged NaY zeolite using aberration-corrected scanning transmission electron microscopy. *Microporous and Mesoporous Materials*, **2021**, 311, 110711 5.3 1
- 4 Crystallization of montesommaite-type aluminosilicate by post-synthetic treatment of lithosite-type aluminosilicate. *Microporous and Mesoporous Materials*, **2016**, 233, 102-108 5.3
- 3 Carbon Combustion over Synthetic Potassium Aluminosilicate with KIT Structure. *Chemistry Letters*, **2013**, 42, 118-120 1.7
- 2 Hydrogenation of Aromatic Compounds over Supported Transition Metal Catalysts in Supercritical Carbon Dioxide Solvent. *Studies in Surface Science and Catalysis*, **2007**, 213-216 1.8
- 1 Effect of benzothiophene on tetralin hydrogenation over supported rhodium catalyst in supercritical carbon dioxide solvent. *Research on Chemical Intermediates*, **2008**, 34, 767-770 2.8