Norihito Hiyoshi

List of Publications by Year
in descending order

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114 papers	3,129 citations	185998 28 h-index	182168 51 g-index
115 all docs	115 docs citations	115 times ranked	3317 citing authors

#	Article	IF	Citations
1	Giant Carbon Nano-Test Tubes as Versatile Imaging Vessels for High-Resolution and In Situ Observation of Proteins. ACS Applied Materials & Interfaces, 2022, 14, 26507-26516.	4.0	5
2	Continuous production of glyceric acid and lactic acid by catalytic oxidation of glycerol over an Auâ€“Pt/Al2O3 bimetallic catalyst using a liquid-phase flow reactor. Catalysis Today, 2021, 375, 191-196.	2.2	14
3	Observation of La-exchanged NaY zeolite using aberration-corrected scanning transmission electron microscopy. Microporous and Mesoporous Materials, 2021, 311, 110711.	2.2	2
4	High dimensionally structured W-V oxides as highly effective catalysts for selective oxidation of toluene. Catalysis Today, 2021, 363, 60-66.	2.2	6
5	Fabrication of Keggin-type Polyoxometalate Membranes at the Gasâ€“Liquid Interface. Langmuir, 2020, 36, 3958-3962.	1.6	6
6	Synthesis of Fluoride-Containing High Dimensionally Structured Nb Oxide and Its Catalytic Performance for Acid Reactions. Inorganic Chemistry, 2020, 59, 9086-9094.	1.9	11
7	Continuous syntheses of carbon-supported Pd and Pd@Pt coreâ€“shell nanoparticles using a flow-type single-mode microwave reactor. RSC Advances, 2020, 10, 6571-6575.	1.7	12
8	Dissolutionâ€“Recrystallization Formation of Huge Thin 2D Silicalite Lamella for Promoted Sorption. Advanced Materials Interfaces, 2020, 7, 1901786.	1.9	2
9	Catalytic performance of MoO3/FAU zeolite catalysts modified by Cu for reverse water gas shift reaction. Applied Catalysis A: General, 2020, 592, 117415.	2.2	24
10	Synthesis of High Dimensionally Structured Moâ€“Fe Mixed Metal Oxide and Its Catalytic Activity for Selective Oxidation of Methanol. Inorganic Chemistry, 2020, 59, 5252-5255.	1.9	8
11	Synthesis of a Crystalline Orthorhombic Moâ€“Vâ€“Cu Oxide for Selective Oxidation of Acrolein. Chemistry of Materials, 2019, 31, 1408-1417.	3.2	16
12	Stereoselective Aromatic Ring Hydrogenation over Supported Rhodium Catalysts in Supercritical Carbon Dioxide Solvent. Chemical Record, 2019, 19, 1926-1934.	2.9	4
13	Multi-dimensional Crystal Structuring of Complex Metal Oxide Catalysts of Group V and VI Elements by Unit-Assembling. Topics in Catalysis, 2019, 62, 1157-1168.	1.3	6
14	One-pot catalytic selective synthesis of 1,4-butanediol from 1,4-anhydroerythritol and hydrogen. Green Chemistry, 2018, 20, 2547-2557.	4.6	44
15	Keggin-type polyoxometalate nanosheets: synthesis and characterization via scanning transmission electron microscopy. Chemical Communications, 2018, 54, 5217-5220.	2.2	3
16	Mechanistic Study of Hydrogen-Driven Deoxydehydration over Ceria-Supported Rhenium Catalyst Promoted by Au Nanoparticles. ACS Catalysis, 2018, 8, 584-595.	5.5	70
17	Facile Formation of Lactic Acid from a Triose Sugar in Water over Niobium Oxide with a Deformed Orthorhombic Phase. ACS Catalysis, 2018, 8, 283-290.	5.5	76
18	Continuous Catalytic Oxidation of Glycerol to Carboxylic Acids Using Nanosized Gold/Alumina Catalysts and a Liquid-Phase Flow Reactor. ACS Omega, 2018, 3, 13862-13868.	1.6	15

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19	A zeolitic vanadotungstate family with structural diversity and ultrahigh porosity for catalysis. Nature Communications, 2018, 9, 3789.	5.8	30
20	Synthesis of Îµ-Keggin-Type Cobaltomolybdate-Based 3D Framework Material and Characterization Using Atomic-Scale HAADF-STEM and XANES. Inorganic Chemistry, 2017, 56, 2042-2049.	1.9	13
21	Furfuryl Alcohol and Furfural Hydrogenation over Activated Carbonâ€"supported Palladium Catalyst in Presence of Water and Carbon Dioxide. ChemistrySelect, 2017, 2, 2471-2475.	0.7	18
22	Synthesis of Crystalline Microporous Moâ€"Vâ€"Bi Oxide for Selective (Amm)Oxidation of Light Alkanes. Chemistry of Materials, 2017, 29, 2939-2950.	3.2	24
23	The Assembly of an Allâ€Inorganic Porous Soft Framework from Metal Oxide Molecular Nanowires. Chemistry - A European Journal, 2017, 23, 1972-1980.	1.7	11
24	A Microporous Aluminosilicate with 12-, 12-, and 8-Ring Pores and Isolated 8-Ring Channels. Journal of the American Chemical Society, 2017, 139, 7989-7997.	6.6	40
25	Structural Characterization of 2D Zirconomolybdate by Atomic Scale HAADF-STEM and XANES and Its Highly Stable Electrochemical Properties as a Li Battery Cathode. Inorganic Chemistry, 2017, 56, 14306-14314.	1.9	4
26	Acidic Ultrafine Tungsten Oxide Molecular Wires for Cellulosic Biomass Conversion. Angewandte Chemie - International Edition, 2016, 55, 10234-10238.	7.2	27
27	Acidic Ultrafine Tungsten Oxide Molecular Wires for Cellulosic Biomass Conversion. Angewandte Chemie, 2016, 128, 10390-10394.	1.6	9
28	Synthesis, crystal structure and characterization of novel open framework CHA-type aluminophosphate involving a chiral diamine. Dalton Transactions, 2016, 45, 15193-15202.	1.6	6
29	Encapsulation of Two Potassium Cations in Preyssler-Type Phosphotungstates: Preparation, Structural Characterization, Thermal Stability, Activity as an Acid Catalyst, and HAADF-STEM Images. Inorganic Chemistry, 2016, 55, 11583-11592.	1.9	13
30	Oxidative coupling of methane over Mnâ€"Na2WO4/SiO2 catalyst with continuous supply of alkali chloride vapor. Fuel Processing Technology, 2016, 151, 148-154.	3.7	21
31	Crystallization of montesommaite-type aluminosilicate by post-synthetic treatment of lithosite-type aluminosilicate. Microporous and Mesoporous Materials, 2016, 233, 102-108.	2.2	0
32	Amphiphilic Organicâ€"Inorganic Hybrid Zeotype Aluminosilicate like a Nanoporous Crystallized Langmuirâ€"Blodgett Film. Angewandte Chemie - International Edition, 2015, 54, 7994-7998.	7.2	14
33	Effect of steam during catalytic cracking of n-hexane using P-ZSM-5 catalyst. Catalysis Communications, 2015, 69, 20-24.	1.6	24
34	Observation of microporous cesium salts of 12-tungstosilicic acid using scanning transmission electron microscopy. Chemical Communications, 2015, 51, 9975-9978.	2.2	12
35	Utilization of Supercritical Fluid for Catalytic Thermochemical Conversions of Woody-Biomass Related Compounds. , 2015, , 437-453.		4
36	Oxidative coupling of methane over alkali chlorideâ€"Mnâ€"Na2WO4/SiO2 catalysts: Promoting effect of molten alkali chloride. Fuel Processing Technology, 2015, 133, 29-34.	3.7	47

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37	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. Materials Letters, 2015, 139, 271-274.	1.3	5
38	Microscope Analysis of Auâ€"Pd/TiO2 Glycerol Oxidation Catalysts Prepared by Depositionâ€"Precipitation Method. Catalysis Letters, 2014, 144, 2167-2175.	1.4	21
39	Structural changes in â€"LIT zeolites related to cation-exchange treatments under aqueous and non-aqueous conditions. Microporous and Mesoporous Materials, 2014, 190, 92-98.	2.2	3
40	Solvothermal synthesis and characterization of a layered silicate including a large quantity of Al atom and its mesoporous derivatives. Microporous and Mesoporous Materials, 2014, 191, 38-47.	2.2	5
41	P-ZSM-5 Pretreated by High-Temperature Calcination as Durable Catalysts for Steam Cracking of n-Hexane. Catalysis Letters, 2014, 144, 44-49.	1.4	20
42	Liquid phase hydrogenation of methyl levulinate over the mixture of supported ruthenium catalyst and zeolite in water. Applied Catalysis A: General, 2014, 470, 215-220.	2.2	45
43	Discovery of a new crystalline phase: BiGeO₂(OH)₂(NO₃). CrystEngComm, 2014, 16, 10080-10088.	1.3	8
44	Continuous syntheses of Pd@Pt and Cu@Ag coreâ€"shell nanoparticles using microwave-assisted core particle formation coupled with galvanic metal displacement. Nanoscale, 2014, 6, 8720-8725.	2.8	47
45	Liquid phase oxidation of glycerol in batch and flow-type reactors with oxygen over Auâ€"Pd nanoparticles stabilized in anion-exchange resin. RSC Advances, 2014, 4, 33416-33423.	1.7	25
46	Enhancement of reaction rates for catalytic benzaldehyde hydrogenation and sorbitol dehydration in water solvent by addition of carbon dioxide. Journal of Chemical Sciences, 2014, 126, 395-401.	0.7	10
47	Supercritical water gasification of ethanol production waste over graphite supported ruthenium catalyst. Journal of Molecular Catalysis A, 2014, 388-389, 148-153.	4.8	12
48	Deactivation of ZSM-5 zeolite during catalytic steam cracking of n-hexane. Fuel Processing Technology, 2014, 126, 343-349.	3.7	49
49	Carbon Combustion over Synthetic Potassium Aluminosilicate with â€"LIT Structure. Chemistry Letters, 2013, 42, 118-120.	0.7	0
50	Effect of Carbon Dioxide Pressure on 4-t-Butylphenol Hydrogenation Activity of Supported Rhodium Catalyst. Journal of the Japan Petroleum Institute, 2013, 56, 165-170.	0.4	1
51	Supercritical Water Gasification of Organosolv Lignin over a Graphite-supported Ruthenium Metal Catalyst. Chemistry Letters, 2012, 41, 1453-1455.	0.7	12
52	Gasification of Sugarcane Bagasse over Supported Ruthenium Catalysts in Supercritical Water. Energy & Fuels, 2012, 26, 3179-3186.	2.5	52
53	Kinetic analysis of 4-isopropylphenol hydrogenation over activated carbon-supported rhodium catalysts in supercritical carbon dioxide solvent. Green Chemistry, 2012, 14, 633.	4.6	16
54	Crystal structure, characterization and thermal stability of NH4+-exchanged â€"LIT-type zeolite. Microporous and Mesoporous Materials, 2012, 163, 42-50.	2.2	6

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55	Gasification of Organosolv-lignin Over Charcoal Supported Noble Metal Salt Catalysts in Supercritical Water. Topics in Catalysis, 2012, 55, 889-896.	1.3	26
56	Liquid Phase Hydrogenation of Methyl Levulinate over Supported Ruthenium Metal Catalyst. Journal of the Japan Petroleum Institute, 2012, 55, 376-379.	0.4	4
57	Cyclization of alkanediols in high-temperature liquid water with high-pressure carbon dioxide. Catalysis Today, 2012, 185, 302-305.	2.2	12
58	Nanocrystalline sodalite: Preparation and application to epoxidation of 2-cyclohexen-1-one with hydrogen peroxide. Applied Catalysis A: General, 2012, 419-420, 164-169.	2.2	31
59	Sorbitol dehydration in high temperature liquid water. Green Chemistry, 2011, 13, 873.	4.6	129
60	Acetophenone hydrogenation over a Pd catalyst in the presence of H2O and CO2. Chemical Communications, 2011, 47, 11546.	2.2	38
61	Stereoselective Intramolecular Dehydration of 2,5-Hexanediol in High-Temperature Liquid Water with High-Pressure Carbon Dioxide. ACS Catalysis, 2011, 1, 67-69.	5.5	22
62	Oxidation of Carbon Monoxide with Silver-exchanged Mordenite Containing Cobalt in Framework Sites. Chemistry Letters, 2011, 40, 480-481.	0.7	2
63	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
64	Lignin Gasification over Charcoal-supported Palladium and Nickel Bimetal Catalysts in Supercritical Water. Chemistry Letters, 2010, 39, 1251-1253.	0.7	13
65	Dehydration of Triol Compounds in High-Temperature Liquid Water Under High-Pressure Carbon Dioxide. Topics in Catalysis, 2010, 53, 487-491.	1.3	20
66	Gaseous Fuel Production from Nonrecyclable Paper Wastes by Using Supported Metal Catalysts in Highâ€Temperature Liquid Water. ChemSusChem, 2010, 3, 737-741.	3.6	19
67	Purification of hydrocarbons from aromatic sulfur compounds by supercritical carbon dioxide extraction. Journal of Supercritical Fluids, 2010, 55, 122-127.	1.6	9
68	Continuous Toluene Hydrogenation System Using Compressed Carbon Dioxide. Journal of Chemical Engineering of Japan, 2010, 43, 82-86.	0.3	1
69	Hydrogen production from woody biomass over supported metal catalysts in supercritical water. Catalysis Today, 2009, 146, 192-195.	2.2	100
70	Activity and Selectivity Behavior of 1,2-Epoxyethylbenzne Hydrogenation in Carbon Dioxide Solvent. Industrial & Engineering Chemistry Research, 2009, 48, 9457-9460.	1.8	5
71	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
72	Thermodynamic Equilibria between Polyalcohols and Cyclic Ethers in High-Temperature Liquid Water. Journal of Chemical & Engineering Data, 2009, 54, 2666-2668.	1.0	10

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73	Enhancement of cyclic ether formation from polyalcohol compounds in high temperature liquid water by high pressure carbon dioxide. Green Chemistry, 2009, 11, 48-52.	4.6	64
74	Graphite-supported rhodium catalysts for naphthalene hydrogenation in supercritical carbon dioxide solvent. Catalysis Communications, 2009, 10, 1681-1684.	1.6	11
75	Stereoselective hydrogenation of 4-alkylphenols over carbon-supported rhodium catalyst in supercritical carbon dioxide solvent. Catalysis Communications, 2009, 10, 1702-1705.	1.6	13
76	Depolymerization of Poly(ethylene terephthalate) to Terephthalic Acid and Ethylene Glycol in High-temperature Liquid Water. Chemistry Letters, 2009, 38, 268-269.	0.7	13
77	EXAFS Study on Structural Change of Charcoal-supported Ruthenium Catalysts during Lignin Gasification in Supercritical Water. Catalysis Letters, 2008, 122, 188-195.	1.4	34
78	Effect of benzothiophene on tetralin hydrogenation over supported rhodium catalyst in supercritical carbon dioxide solvent. Research on Chemical Intermediates, 2008, 34, 767-770.	1.3	1
79	Lignin Gasification over Supported Ruthenium Trivalent Salts in Supercritical Water. Energy & Fuels, 2008, 22, 1485-1492.	2.5	56
80	Subcritical Water Regeneration of Supported Ruthenium Catalyst Poisoned by Sulfur. Energy & Fuels, 2008, 22, 845-849.	2.5	48
81	Enhancement of Glycerol Conversion to Acetol in High-temperature Liquid Water by High-pressure Carbon Dioxide. Chemistry Letters, 2008, 37, 926-927.	0.7	26
82	Adsorption of Carbon Dioxide on Amine-modified MSU-H Silica in the Presence of Water Vapor. Chemistry Letters, 2008, 37, 1266-1267.	0.7	26
83	Particle-size Effects of Activated Carbon-supported Rhodium Catalysts on Hydrogenation of Naphthalene in Supercritical Carbon Dioxide Solvent. Chemistry Letters, 2008, 37, 734-735.	0.7	10
84	Reaction Pathway for Catalytic Gasification of Lignin in Presence of Sulfur in Supercritical Water. Energy & Fuels, 2007, 21, 1854-1858.	2.5	74
85	Estimation of Gas Composition and Cage Occupancies in CH₄-C₂H₆ Hydrates by CP-MAS ¹³C NMR Technique. Journal of the Japan Petroleum Institute, 2007, 50, 132-138.	0.4	24
86	ÐÑƒdrogenation of Aromatic Compounds over Supported Transition Metal Catalysts in Supercritical Carbon Dioxide Solvent. Studies in Surface Science and Catalysis, 2007, , 213-216.	1.5	0
87	Partial oxidation kinetics of m-hydroxybenzyl alcohol with noble metal catalysts in supercritical carbon dioxide. Journal of Supercritical Fluids, 2007, 43, 295-302.	1.6	4
88	Hydrogenation of benzothiophene-free naphthalene over charcoal-supported metal catalysts in supercritical carbon dioxide solvent. Applied Catalysis A: General, 2007, 331, 1-7.	2.2	30
89	Stereoselective hydrogenation of tert-butylphenols over charcoal-supported rhodium catalyst in supercritical carbon dioxide solvent. Journal of Catalysis, 2007, 252, 57-68.	3.1	34
90	Effect of Sulfur on Catalytic Gasification of Lignin in Supercritical Water. Energy & Fuels, 2007, 21, 1400-1405.	2.5	80

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91	Control of Stereoselectivity in 4-tert-Butylphenol Hydrogenation over a Carbon-supported Rhodium Catalyst by Carbon Dioxide Solvent. Chemistry Letters, 2006, 35, 1060-1061.	0.7	12
92	Stereoselective Hydrogenation of Tetralin tocis-Decalin over a Carbon-supported Rhodium Catalyst in Supercritical Carbon Dioxide Solvent. Chemistry Letters, 2006, 35, 188-189.	0.7	18
93	Selective Hydrogenation of Naphthols to Tetralones over Supported Palladium Catalysts in Supercritical Carbon Dioxide Solvent. Chemistry Letters, 2006, 35, 780-781.	0.7	9
94	Low temperature hydrogenation of tetralin over supported rhodium catalysts in supercritical carbon dioxide solvent. Applied Catalysis A: General, 2006, 310, 194-198.	2.2	24
95	Ring hydrogenation of naphthalene and 1-naphthol over supported metal catalysts in supercritical carbon dioxide solvent. Catalysis Today, 2006, 115, 248-253.	2.2	31
96	Tuning cis-decalin Selectivity in Naphthalene Hydrogenation Over Carbon-supported Rhodium Catalyst Under Supercritical Carbon dioxide. Catalysis Letters, 2006, 106, 133-138.	1.4	23
97	Low temperature hydrogenation of 1- and 2-phenylethanols with noble metal catalysts in supercritical carbon dioxide. Journal of Supercritical Fluids, 2006, 37, 87-93.	1.6	21
98	Enhanced Selectivity to Decalin in Naphthalene Hydrogenation under Supercritical Carbon Dioxide. Chemistry Letters, 2005, 34, 424-425.	0.7	26
99	Adsorption characteristics of carbon dioxide on organically functionalized SBA-15. Microporous and Mesoporous Materials, 2005, 84, 357-365.	2.2	526
100	Biphenyl hydrogenation over supported transition metal catalysts under supercritical carbon dioxide solvent. Applied Catalysis A: General, 2005, 288, 43-47.	2.2	43
101	Adsorption of Carbon Dioxide on Aminosilane-modified Mesoporous Silica. Journal of the Japan Petroleum Institute, 2005, 48, 29-36.	0.4	52
102	Development of novel nano/meso-porous materials for CO2 capture & separation. , 2005, , 1921-1924.		0
103	Hydrogenation of Biphenyl over Charcoal-supported Metal Catalysts under Supercritical Carbon Dioxide. Journal of the Japan Petroleum Institute, 2004, 47, 410-411.	0.4	16
104	Selective oxidation of n-butane in the presence of vanadyl pyrophosphates synthesized by intercalationâ€“exfoliationâ€“reduction of layered VOPO4Â·2H2O in 2-butanol. Journal of Catalysis, 2004, 221, 225-233.	3.1	26
105	Microstructures of V-P-O catalysts derived from VOHPO4Â·0.5H2O of different crystallite sizes. Journal of Molecular Catalysis A, 2004, 220, 103-112.	4.8	12
106	Reversible Adsorption of Carbon Dioxide on Amine-Modified SBA-15 from Flue Gas Containing Water Vapor. Studies in Surface Science and Catalysis, 2004, , 417-422.	1.5	16
107	Adsorption of Carbon Dioxide on Amine Modified SBA-15 in the Presence of Water Vapor. Chemistry Letters, 2004, 33, 510-511.	0.7	174
108	Preparation of catalyst precursors for selective oxidation of n-butane by exfoliationâ€“reduction of VOPO4Â·2H2O in primary alcohol. Catalysis Today, 2003, 78, 281-290.	2.2	25

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109	55 A highly selective vanadyl pyrophosphate synthesized by exfoliation-reduction in mixed alcohols for n-butane oxidation. Studies in Surface Science and Catalysis, 2003, 145, 271-274.	1.5	2
110	Thin-Layered Sheets of VOHPO4Â·0.5H2O Prepared from VOPO4Â·2H2O by Intercalationâ˜'Exfoliationâ˜'Reduction in Alcohol. Chemistry of Materials, 2002, 14, 3882-3888.	3.2	70
111	Novel Preparation of Vanadyl Pyrophosphate for Selective Oxidation ofn-Butane Utilizing Intercalation and Exfoliation. Chemistry Letters, 2001, 30, 484-485.	0.7	11
112	Oxidation of n-butane over vanadyl pyrophosphates prepared from lamellar vanadyl alkylphosphates. Catalysis Today, 2001, 71, 129-135.	2.2	6
113	Vapor phase methylation of pyridine with COâ€"H2 over metal catalysts. Applied Catalysis A: General, 1999, 185, 323-327.	2.2	6
114	Vapor phase methylation of pyridine with COâ˜'H2 and CO2â˜'H2 over a Ni catalyst. Reaction Kinetics and Catalysis Letters, 1999, 67, 9-12.	0.6	3