

Toshiaki Hanaoka

List of Publications by Year in descending order

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75
papers

1,962
citations

279798

23
h-index

254184

43
g-index

75
all docs

75
docs citations

75
times ranked

2108
citing authors

#	ARTICLE	IF	CITATIONS
1	Co-gasification of woody biomass and coal with air and steam. <i>Fuel</i> , 2007, 86, 684-689. Hydrogen production from woody biomass by steam gasification using a Ni/SiO_2 catalyst. <i>Journal of Catalysis</i> , 2007, 248, 277-287.	6.4	248
2	Effect of natural zeolite on methane production for anaerobic digestion of ammonium rich organic sludge. <i>Bioresource Technology</i> , 2005, 96, 459-464.	5.7	180
3	Effect of woody biomass components on air-steam gasification. <i>Biomass and Bioenergy</i> , 2005, 28, 69-76.	5.7	170
4	Simultaneous removal of H ₂ S and COS using activated carbons and their supported catalysts. <i>Catalysis Today</i> , 2005, 104, 94-100.	9.6	109
5	Effect of pyrolysis conditions on gasification reactivity of woody biomass-derived char. <i>Proceedings of the Combustion Institute</i> , 2009, 32, 2013-2020.	4.4	100
6	Fischer-Tropsch synthesis in slurry-phase reactors over Mn- and Zr-modified Co/SiO ₂ catalysts. <i>Fuel Processing Technology</i> , 2009, 90, 901-908.	3.9	76
7	Fischer-Tropsch synthesis over alumina supported cobalt catalyst: Effect of promoter addition. <i>Applied Catalysis A: General</i> , 2015, 494, 1-11.	7.2	61
8	Fischer-Tropsch synthesis over alumina supported cobalt catalyst: Effect of promoter addition. <i>Applied Catalysis A: General</i> , 2015, 494, 1-11.	4.3	60
9	Jet fuel synthesis from Fischer-Tropsch product under mild hydrocracking conditions using Pt-loaded catalysts. <i>Chemical Engineering Journal</i> , 2015, 263, 178-185.	12.7	51
10	Syntheses of new peroxy-polyoxometalates intercalated layered double hydroxides for propene epoxidation by molecular oxygen in methanol. <i>Journal of Catalysis</i> , 2007, 248, 277-287.	6.2	43
11	Syngas production by CO ₂ /O ₂ gasification of aquatic biomass. <i>Fuel Processing Technology</i> , 2013, 116, 9-15.	7.2	42
12	Selective Hydrocracking of Fischer-Tropsch Waxes to High-quality Diesel Fuel Over Pt-promoted Polyoxocation-pillared Montmorillonites. <i>Topics in Catalysis</i> , 2009, 52, 597-608.	2.8	38
13	Bench-scale production of liquid fuel from woody biomass via gasification. <i>Fuel Processing Technology</i> , 2010, 91, 859-865.	7.2	37
14	Hot Compressed Water Treatment for Production of Charcoal from Wood. <i>Journal of Chemical Engineering of Japan</i> , 2002, 35, 1020-1023.	0.6	35
15	Fischer-Tropsch synthesis over alumina supported cobalt catalyst: Effect of crystal phase and pore structure of alumina support. <i>Journal of Molecular Catalysis A</i> , 2014, 394, 22-32.	4.8	35
16	Control of the rhodium particle size of the silica-supported catalysts by using microemulsion. <i>Applied Catalysis A: General</i> , 2000, 190, 291-296.	4.3	33
17	The effect of N ₂ /CO ₂ /O ₂ content and pressure on characteristics and CO ₂ gasification behavior of biomass-derived char. <i>Fuel Processing Technology</i> , 2012, 104, 287-294.	7.2	33
18	Fischer-Tropsch synthesis over alumina supported bimetallic Co-Ni catalyst: Effect of impregnation sequence and solution. <i>Journal of Molecular Catalysis A</i> , 2015, 407, 15-24.	4.8	33

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19	Fischer-Tropsch synthesis over TiO ₂ supported cobalt catalyst: Effect of TiO ₂ crystal phase and metal ion loading. <i>Applied Catalysis A: General</i> , 2013, 460-461, 8-14.	4.3	30
20	Removal of Tar Model Compounds Produced from Biomass Gasification Using Activated Carbons. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2007, 86, 707-711.	0.2	29
21	Preparation method for supported metal catalysts using w/o microemulsion: Study on immobilization conditions of metal particles by hydrolysis of alkoxide. <i>Catalysis Today</i> , 1998, 45, 203-208.	4.4	24
22	Liquid Fuel Production from Woody Biomass via Oxygen-enriched Air/CO ₂ Gasification on a Bench Scale. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2011, 90, 1072-1080.	0.2	24
23	Title is missing!. <i>Catalysis Letters</i> , 2000, 64, 27-31.	2.6	23
24	Preparation of Co/Al ₂ O ₃ catalyst for Fischer-Tropsch synthesis: Combination of impregnation method and homogeneous precipitation method. <i>Applied Catalysis A: General</i> , 2014, 475, 1-9.	4.3	22
25	Jet fuel synthesis in hydrocracking of Fischer-Tropsch product over Pt-loaded zeolite catalysts prepared using microemulsions. <i>Fuel Processing Technology</i> , 2015, 129, 139-146.	7.2	22
26	A kinetic study of in situ CO ₂ removal gasification of woody biomass for hydrogen production. <i>Biomass and Bioenergy</i> , 2007, 31, 556-562.	5.7	20
27	Size control of rhodium particles of silica-supported catalysts using water-in-oil microemulsion. <i>Applied Surface Science</i> , 1997, 121-122, 347-350.	6.1	19
28	Synthesis of Zr-grafted SBA-15 as an Effective Support for Cobalt Catalyst in Fischer-Tropsch Synthesis. <i>Chemistry Letters</i> , 2008, 37, 984-985.	1.3	19
29	Hydrogenation of carbon monoxide over zirconia-supported palladium catalysts prepared using water-in-oil microemulsion. <i>Applied Catalysis A: General</i> , 1997, 155, 283-289.	4.3	18
30	Mn and Zr modified Co/SiO ₂ catalysts development in slurry-phase Fischer-Tropsch synthesis. <i>Applied Catalysis A: General</i> , 2013, 467, 47-54.	4.3	17
31	Factors influencing the activity of Co/Ca/TiO ₂ catalyst for Fischer-Tropsch synthesis. <i>Catalysis Today</i> , 2014, 232, 2-10.	4.4	16
32	Microalgal Cultivation in a Solution Recovered from the Low-Temperature Catalytic Gasification of the Microalga.. <i>Journal of Bioscience and Bioengineering</i> , 2001, 91, 311-313.	2.2	16
33	In Situ Immobilization of Ultrafine Particles Synthesized in a Water/Oil Microemulsion. <i>Journal of Colloid and Interface Science</i> , 2001, 235, 235-240.	9.4	15
34	Effect of Pt particle density on the hydrocracking of Fischer-Tropsch products over Pt-loaded zeolite catalysts prepared using water-in-oil microemulsions. <i>Chemical Engineering Journal</i> , 2015, 274, 256-264.	12.7	14
35	Effects of Ruthenium Precursors on Ru/Mn/Al ₂ O ₃ and Ru/Al ₂ O ₃ catalysts for Fischer-Tropsch Synthesis. <i>Journal of the Japan Petroleum Institute</i> , 2010, 53, 75-82.	0.6	13
36	Hot Gas Cleaning of Producer Gas from Biomass Gasification Using Carbonaceous Materials as a Bed Additive. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2004, 83, 828-831.	0.2	13

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37	Size Control of Metastable ZnS Particles in W/O Microemulsion. Bulletin of the Chemical Society of Japan, 2001, 74, 1349-1354.	3.2	12
38	Efficiency Estimation and Improvement of the 1,3-Butadiene Production Process from Lignin via Syngas through Process Simulation. Energy & Fuels, 2017, 31, 12965-12976.	5.1	12
39	Organic Compounds Formed by Thermochemical Degradation of Glucose-Glycine Melanoidins Using Hot Compressed Water. Journal of Chemical Engineering of Japan, 2004, 37, 915-919.	0.6	11
40	Hot and Dry Cleaning of Biomass-Gasified Gas Using Activated Carbons with Simultaneous Removal of Tar, Particles, and Sulfur Compounds. Catalysts, 2012, 2, 281-298.	3.5	11
41	Pressurised gasification of wet ethanol fermentation residue for synthesis gas production. Bioresource Technology, 2013, 131, 341-348.	9.6	11
42	Hydrocracking of Fischer-Tropsch Wax to Diesel-range Hydrocarbons over Bifunctional Catalysts Containing Pt and Polyoxocation-pillared Montmorillonite. Chemistry Letters, 2007, 36, 1470-1471.	1.3	10
43	A Novel Preparation Method of Supported Metal Catalysts Using Microemulsion.. Kagaku Kogaku Ronbunshu, 1995, 21, 990-996.	0.3	9
44	Enhancement of CO Hydrogenation Activity of Rh/SiO ₂ with Low Rhodium Content. Chemistry Letters, 1997, 26, 645-646.	1.3	9
45	Synthesis of Zr-containing FSM-16 as an effective support for Co catalyst in the Fischer-Tropsch synthesis. Reaction Kinetics and Catalysis Letters, 2007, 92, 147-154.	0.6	9
46	Syngas production by gasification of aquatic biomass with CO ₂ /O ₂ and simultaneous removal of H ₂ S and COS using char obtained in the gasification. Biomass and Bioenergy, 2013, 59, 448-457.	5.7	9
47	Fischer-Tropsch synthesis over a Co/SiO ₂ catalyst modified with Mn- and Zr under practical conditions. Catalysis Communications, 2014, 57, 36-39.	3.3	9
48	Improvement of the 1,3-butadiene production process from lignin – A comparison with the gasification power generation process. Renewable Energy, 2019, 135, 1303-1313.	8.9	8
49	A Kinetic Study of the Decomposition of CaCO ₃ at High CO ₂ Partial Pressure for the Regeneration of a CO ₂ Sorbent. Journal of Chemical Engineering of Japan, 2006, 39, 1191-1194.	0.6	7
50	Biofuel Production by Hydrocracking of Biomass FT Wax over NiMo / Al ₂ O ₃ -SiO ₂ Catalyst. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2011, 90, 1171-1176.	0.2	7
51	Effect of metal content on CO ₂ gasification behavior of K- and Fe-loaded bio-chars. Journal of Thermal Science and Technology, 2014, 9, JTST0006-JTST0006.	1.1	7
52	Preparation for Pt-Loaded Zeolite Catalysts Using w/o Microemulsion and Their Hydrocracking Behaviors on Fischer-Tropsch Product. Catalysts, 2015, 5, 88-105.	3.5	7
53	Syngas Production by Woody Biomass Gasification with a CO ₂ /O ₂ Mixture. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2009, 88, 862-868.	0.2	6
54	Ruthenium Modification on Mn and Zr-Modified Co/SiO ₂ Catalysts for Slurry-Phase Fischer-Tropsch Synthesis. Catalysts, 2015, 5, 26-37.	3.5	6

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55	Evaluation of n-butene synthesis from dimethyl ether in the production of 1,3-butadiene from lignin: A techno-economic analysis. <i>Renewable Energy</i> , 2021, 163, 964-973.	8.9	6
56	Bench-Scale Production of Hydrocarbon Liquid Fuel from Woody Biomass via Gasification. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2008, 87, 737-743.	0.2	6
57	Effects of Catalyst Preparation on Hydrocarbon Product Distribution in Hydrocracking of the Fischer-Tropsch Product with Low Pt-Loaded Catalysts. <i>Catalysts</i> , 2015, 5, 1983-2000.	3.5	5
58	Effect of Process-Condition-Dependent Chain Growth Probability and Methane Formation on Modeling of the Fischer-Tropsch Process. <i>Energy & Fuels</i> , 2016, 30, 7971-7981.	5.1	5
59	Hydroisomerization and hydrocracking of long chain n-alkane and Fischer-Tropsch wax over bifunctional Pt-promoted Al-HMS catalysts. <i>Studies in Surface Science and Catalysis</i> , 2007, , 781-785.	1.5	4
60	Fischer-Tropsch Synthesis on Ru/Mn/Al ₂ O ₃ Catalysts: Effects of Manganese Loading. <i>Journal of the Japan Petroleum Institute</i> , 2010, 53, 222-231.	0.6	4
61	Effects of Manganese Salts on Ru/Mn/Al ₂ O ₃ Catalytic Activity and Stability for Fischer-Tropsch Synthesis. <i>Journal of the Japan Petroleum Institute</i> , 2011, 54, 36-44.	0.6	4
62	Estimation and Improvement of the 1,3-Butadiene Production Process from Lignin through Pinch Analysis. <i>Energy & Fuels</i> , 2016, 30, 7842-7850.	5.1	4
63	Control of Rh Particle Size of Rh/SiO ₂ Catalysts Prepared from Microemulsions. Effects of Surfactant.. <i>Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute)</i> , 1996, 39, 285-289.	0.1	4
64	Effect of Chemical Property of Waste Biomass on Air-Steam Gasification. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2005, 84, 1012-1018.	0.2	4
65	Methanol Mediated Extraction of Phenolic Compounds from Wood Tar. <i>Chemistry Letters</i> , 2002, 31, 546-547.	1.3	3
66	Synthesis of Liquefied Bio-Dimethyl Ether (DME) from Woody Biomass via Gasification. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2009, 88, 918-922.	0.2	3
67	n-Butene Synthesis in the Dimethyl Ether-to-Olefin Reaction over Zeolites. <i>Catalysts</i> , 2021, 11, 743.	3.5	3
68	Process Evaluation of Biomass to Liquid Fuel Production System with Gasification and Liquid Fuel Synthesis. <i>Studies in Surface Science and Catalysis</i> , 2004, 153, 79-84.	1.5	2
69	Fischer-Tropsch Synthesis on Ru/Mn/Al ₂ O ₃ Catalyst in a BTL Plant Operation Using Woody Biomass. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2011, 90, 972-976.	0.2	2
70	Enhancement of Gasification Rate of Biochar under Low-Temperature Conditions by Directly Supported Catalysts. 880-02 <i>Nihon Kikai Gakkai Ronbunshu</i> Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2013, 79, 2798-2809.	0.2	2
71	Dispersion State of Catalytic Metal Supported on Bio-Char Elucidated Using Energy Dispersive X-ray Spectroscopy: Effects of Catalyst Type and Heating Process. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2017, 96, 73-85.	0.2	2
72	New Trend of Biodiesel Fuels. <i>Journal of the Japan Institute of Marine Engineering</i> , 2012, 47, 39-44.	0.0	1

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73	Modeling of n-Paraffin Cracking with Vapor-liquid Equilibrium. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2016, 95, 167-172.	0.2	0
74	Development Trends of 1,3-Butadiene Production Process from Lignin through Process Simulation. Oleoscience, 2021, 21, 403-408.	0.0	0
75	Hot Compressed Extraction of Terpenoids from Cryptomeria japonica Bark. Journal of Chemical Engineering of Japan, 2003, 36, 720-724.	0.6	0