Min Hye Youn

List of Publications by Year
in descending order

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85 papers	2,279 citations	172207 29 h-index	264894 42 g-index
86 all docs	86 docs citations	86 times ranked	2188 citing authors

#	Article	IF	Citations
1	Inâ€“Bi Electrocatalyst for the Reduction of CO₂ to Formate in a Wide Potential Window. ACS Applied Materials & Interfaces, 2022, 14, 28890-28899.	4.0	16
2	Highly tunable syngas production by electrocatalytic reduction of CO2 using Ag/TiO2 catalysts. Chemical Engineering Journal, 2021, 413, 127448.	6.6	28
3	Unravelling the K-promotion effect in highly active and stable Fe5C2 nanoparticles for catalytic linear Î±-olefin production. Materials Advances, 2021, 2, 1050-1058.	2.6	3
4	Determination of kinetic factors of CO2 mineralization reaction for reducing CO2 emissions in cement industry and verification using CFD modeling. Chemical Engineering Journal, 2021, 420, 129420.	6.6	10
5	Formation of CaCO3 from calcium sources with different anions in single process of CO2 capture-mineralization. Korean Journal of Chemical Engineering, 2020, 37, 1709-1716.	1.2	1
6	Effect of Ba impregnation on Al2O3 catalyst for 1-octene production by 1-octanol dehydration. Fuel, 2020, 281, 118791.	3.4	10
7	Brief Review of Precipitated Iron-Based Catalysts for Low-Temperature Fischerâ€“Tropsch Synthesis. Topics in Catalysis, 2020, 63, 793-809.	1.3	22
8	Investigation on Electroreduction of CO₂ to Formic Acid Using Cu₃(BTC)₂ Metalâ€“Organic Framework (Cu-MOF) and Graphene Oxide. ACS Omega, 2020, 5, 23919-23930.	1.6	47
9	Nitrogen and sulfur dual-doped porous carbon derived from coffee waste and cysteine for electrochemical energy storage. Korean Journal of Chemical Engineering, 2020, 37, 1218-1225.	1.2	5
10	Catalytic upgrading of long-chain 1-alkene in synthetic fuels over shape-controlled cobalt oxide nanocrystals. Fuel, 2020, 269, 117397.	3.4	8
11	Comparison of reactions with different calcium sources for CaCO₃ production using carbonic anhydrase. , 2020, 10, 898-906.		6
12	Phase-controlled synthesis of thermally stable nitrogen-doped carbon supported iron catalysts for highly efficient Fischer-Tropsch synthesis. Nano Research, 2019, 12, 2568-2575.	5.8	18
13	Carbon dioxide sequestration process for the cement industry. Journal of CO2 Utilization, 2019, 34, 325-334.	3.3	37
14	Extremely productive iron-carbide nanoparticles on graphene flakes for CO hydrogenation reactions under harsh conditions. Journal of Catalysis, 2019, 378, 289-297.	3.1	17
15	Production of linear Î±-olefin 1-octene via dehydration of 1-octanol over Al2O3 catalyst. Fuel, 2019, 256, 115957.	3.4	11
16	Leaching-resistant SnO2/Î³-Al2O3 nanocatalyst for stable electrochemical CO2 reduction into formate. Journal of Industrial and Engineering Chemistry, 2019, 78, 73-78.	2.9	21
17	Eco-friendly prepared iron-ore-based catalysts for Fischer-Tropsch synthesis. Applied Catalysis B: Environmental, 2019, 244, 576-582.	10.8	30
18	Catholyteâ€Free Electrocatalytic CO₂ Reduction to Formate. Angewandte Chemie - International Edition, 2018, 57, 6883-6887.	7.2	143

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19	Energy-efficient chemical regeneration of AMP using calcium hydroxide for operating carbon dioxide capture process. Chemical Engineering Journal, 2018, 335, 338-344.	6.6	55
20	A durable nanocatalyst of potassium-doped iron-carbide/alumina for significant production of linear alpha olefins via Fischer-Tropsch synthesis. Applied Catalysis A: General, 2018, 564, 190-198.	2.2	19
21	Effect of process parameters on the CaCO3 production in the single process for carbon capture and mineralization. Korean Journal of Chemical Engineering, 2017, 34, 935-941.	1.2	25
22	Enhanced CO2 absorption and desorption in a tertiary amine medium with a carbonic anhydrase mimic. Journal of Industrial and Engineering Chemistry, 2017, 52, 287-294.	2.9	24
23	Calcium extraction from steelmaking slag and production of precipitated calcium carbonate from calcium oxide for carbon dioxide fixation. Journal of Industrial and Engineering Chemistry, 2017, 53, 233-240.	2.9	31
24	Single Process for CO₂ Capture and Mineralization in Various Alkanolamines Using Calcium Chloride. Energy & Fuels, 2017, 31, 763-769.	2.5	49
25	Simultaneous Sodium Hydroxide Production by Membrane Electrolysis and Carbon Dioxide Capture. Chemical Engineering and Technology, 2017, 40, 2204-2211.	0.9	4
26	Substituted Benzoxazole and Catechol Cocrystals as an Adsorbent for CO2 Capture: Synthesis and Mechanistic Studies. Crystal Growth and Design, 2017, 17, 4504-4510.	1.4	4
27	Mono- and dinuclear Cu^{II} complexes of the benzyldipicolylamine (BDPA) ligand: crystal structure, synthesis and characterization. Acta Crystallographica Section C, Structural Chemistry, 2017, 73, 1024-1029.	0.2	0
28	The salt-based catalytic enhancement of CO₂ absorption by a tertiary amine medium. RSC Advances, 2016, 6, 64575-64580.	1.7	10
29	Influences of zincâ€“metal complex on the carbon dioxide regeneration behaviors of alkanolamine absorbents. Journal of Industrial and Engineering Chemistry, 2016, 34, 76-83.	2.9	16
30	Carbon Dioxide Sequestration by Using a Model Carbonic Anhydrase Complex in Tertiary Amine Medium. ChemSusChem, 2015, 8, 3977-3982.	3.6	19
31	Microporous and Mesoporous ZSM-5 Catalyst for Catalytic Cracking of C₅ Raffinate to Light Olefins. Journal of Nanoscience and Nanotechnology, 2014, 14, 8817-8822.	0.9	2
32	Characteristics of CO2 capture system using KIERSOL in the LNG flue gas. Energy Procedia, 2014, 63, 1745-1750.	1.8	5
33	Catalytic cracking of C5 raffinate to light olefins over lanthanum-containing phosphorous-modified porous ZSM-5: Effect of lanthanum content. Fuel Processing Technology, 2013, 109, 189-195.	3.7	57
34	Production of light olefins through catalytic cracking of C5 raffinate over carbon-templated ZSM-5. Fuel Processing Technology, 2013, 108, 25-30.	3.7	19
35	Catalytic Cracking of C₅ Raffinate to Light Olefins Over Phosphorous-Modified Microporous and Mesoporous ZSM-5. Journal of Nanoscience and Nanotechnology, 2013, 13, 7504-7510.	0.9	3
36	Hydrogen production by steam reforming of liquefied natural gas (LNG) over mesoporous nickelâ€“aluminaÂxerogel catalysts prepared by a single-step carbon-templating solâ€“gel method. International Journal of Hydrogen Energy, 2012, 37, 11208-11217.	3.8	18

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37	Hydrogen production by steam reforming of liquefied natural gas (LNG) over ordered mesoporous nickelâ€“alumina catalyst. International Journal of Hydrogen Energy, 2012, 37, 17967-17977.	3.8	43
38	Hydrogen production by steam reforming of liquefied natural gas (LNG) over mesoporous Ni-Al2O3 aerogel catalyst prepared by a single-step epoxide-driven sol-gel method. International Journal of Hydrogen Energy, 2012, 37, 1436-1443.	3.8	27
39	Catalytic cracking of C5 raffinate to light olefins over NaOH-treated ZSM-5. Research on Chemical Intermediates, 2011, 37, 1173-1180.	1.3	6
40	Hydrogen production by steam reforming of simulated liquefied natural gas (LNG) over mesoporous nickelâ€“Mâ€“alumina (M=Ni, Ce, La, Y, Cs, Fe, Co, and Mg) aerogel catalysts. International Journal of Hydrogen Energy, 2011, 36, 3505-3514.	3.8	21
41	Production of middle distillate through hydrocracking of paraffin wax over Pd0.15Cs x H2.7â^'x PW12O40 catalysts: Effect of cesium content and surface acidity. Korean Journal of Chemical Engineering, 2010, 27, 807-811.	1.2	5
42	Mesoporous Nickelâ€“Alumina Catalysts for Hydrogen Production by Steam Reforming of Liquefied Natural Gas (LNG). Catalysis Surveys From Asia, 2010, 14, 1-10.	1.0	10
43	Support Modification of Supported Nickel Catalysts for Hydrogen Production by Auto-thermal Reforming of Ethanol. Catalysis Surveys From Asia, 2010, 14, 55-63.	1.0	10
44	Effect of calcination temperature of mesoporous nickelâ€“alumina catalysts on their catalytic performance in hydrogen production by steam reforming of liquefied natural gas (LNG). Journal of Industrial and Engineering Chemistry, 2010, 16, 795-799.	2.9	31
45	Hydrogen production by auto-thermal reforming of ethanol over nickel catalyst supported on metal oxide-stabilized zirconia. International Journal of Hydrogen Energy, 2010, 35, 3490-3498.	3.8	28
46	Hydrogen production by steam reforming of liquefied natural gas (LNG) over mesoporous nickelâ€“alumina aerogel catalyst. International Journal of Hydrogen Energy, 2010, 35, 6738-6746.	3.8	37
47	Effect of Ni/Al atomic ratio of mesoporous Niâ€“Al2O3 aerogel catalysts on their catalytic activity for hydrogen production by steam reforming of liquefied natural gas (LNG). International Journal of Hydrogen Energy, 2010, 35, 12174-12181.	3.8	26
48	Hydrogen production by auto-thermal reforming of ethanol over nickel catalysts supported on metal oxides: Effect of support acidity. Applied Catalysis B: Environmental, 2010, 98, 57-64.	10.8	60
49	Hydrogen Production by Steam Reforming of Liquefied Natural Gas over Mesoporous Ni-Al2O3 Catalysts Prepared by a Co-Precipitation Method: Effect of Ni/Al Atomic Ratio. Catalysis Letters, 2009, 130, 410-416.	1.4	20
50	Preparation and Oxidation Catalysis of H5PMo10V2O40 Catalyst Immobilized on Nitrogen-Containing Spherical Carbon. Catalysis Letters, 2009, 132, 377-382.	1.4	10
51	Hydrogen Production by Steam Reforming of Liquefied Natural Gas Over Mesoporous Ni-Al2O3 Composite Catalyst Prepared by a Single-step Non-ionic Surfactant-templating Method. Catalysis Letters, 2009, 132, 395-401.	1.4	17
52	Production of Middle Distillate Through Hydrocracking of Paraffin Wax Over NiMo/SiO2-Al2O3 Catalysts: Effect of Solvent in the Preparation of SiO2-Al2O3 by a Solâ€“Gel Method. Catalysis Letters, 2009, 132, 410-416.	1.4	9
53	Hydrogen production by steam reforming of liquefied natural gas (LNG) over nickel catalyst supported on mesoporous alumina prepared by a non-ionic surfactant-templating method. International Journal of Hydrogen Energy, 2009, 34, 1809-1817.	3.8	49
54	Hydrogen production by steam reforming of liquefied natural gas (LNG) over Ni/Al2O3â€“ZrO2 xerogel catalysts: Effect of calcination temperature of Al2O3â€“ZrO2 xerogel supports. International Journal of Hydrogen Energy, 2009, 34, 3755-3763.	3.8	62

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55	Effect of preparation method of mesoporous Niâ€“Al2O3 catalysts on their catalytic activity for hydrogen production by steam reforming of liquefied natural gas (LNG). International Journal of Hydrogen Energy, 2009, 34, 5409-5416.	3.8	31
56	Hydrogen production by auto-thermal reforming of ethanol over nickel catalyst supported on mesoporous yttria-stabilized zirconia. International Journal of Hydrogen Energy, 2009, 34, 5390-5397.	3.8	29
57	Hydrogen production by steam reforming of liquefied natural gas (LNG) over Niâ€“Al2O3 catalysts prepared by a sequential precipitation method: Effect of precipitation agent. International Journal of Hydrogen Energy, 2009, 34, 8053-8060.	3.8	14
58	Hydrogen production by steam reforming of liquefied natural gas (LNG) over nickel catalysts supported on cationic surfactant-templated mesoporous aluminas. Journal of Power Sources, 2009, 186, 178-184.	4.0	24
59	Hydrogen production by auto-thermal reforming of ethanol over Ni-Ti-Zr metal oxide catalysts. Renewable Energy, 2009, 34, 731-735.	4.3	14
60	Hydrogen production by auto-thermal reforming of ethanol over Ni catalyst supported on ZrO2 prepared by a solâ€“gel method: Effect of H2O/P123 mass ratio in the preparation of ZrO2. Catalysis Today, 2009, 146, 57-62.	2.2	24
61	Hydrogen production by steam reforming of liquefied natural gas (LNG) over mesoporous nickelâ€“alumina composite catalyst prepared by an anionic surfactant-templating method. Catalysis Today, 2009, 146, 44-49.	2.2	28
62	Effect of calcination temperature of alumina supports on the wax hydrocracking performance of Pd-loaded mesoporous alumina xerogel catalysts for the production of middle distillate. Chemical Engineering Journal, 2009, 146, 307-314.	6.6	32
63	Epoxidation of Propylene with Hydrogen Peroxide Over TS-1 Catalyst Synthesized in the Presence of Polystyrene. Catalysis Letters, 2008, 122, 349-353.	1.4	20
64	Effect of Al2O3-ZrO2 xerogel support on hydrogen production by steam reforming of LNG over Ni/Al2O3-ZrO2 catalyst. Korean Journal of Chemical Engineering, 2008, 25, 41-45.	1.2	76
65	Hydrogen production by steam reforming of LNG over Ni/Al2O3-ZrO2 catalysts: Effect of ZrO2 and preparation method of Al2O3-ZrO2. Korean Journal of Chemical Engineering, 2008, 25, 95-98.	1.2	37
66	Effect of support on hydrogen production by auto-thermal reforming of ethanol over supported nickel catalysts. Korean Journal of Chemical Engineering, 2008, 25, 236-238.	1.2	46
67	Production of middle distillate in a dual-bed reactor from synthesis gas through wax cracking: Effect of acid property of Pd-loaded solid acid catalysts on the wax conversion and middle distillate selectivity. Applied Catalysis B: Environmental, 2008, 83, 195-201.	10.8	35
68	Preparation of Ni/Al2O3â€“ZrO2 catalysts and their application to hydrogen production by steam reforming of LNG: Effect of ZrO2 content grafted on Al2O3. Catalysis Today, 2008, 138, 130-134.	2.2	27
69	Hydrogen production by steam reforming of liquefied natural gas (LNG) over mesoporous nickelâ€“alumina xerogel catalysts: Effect of nickel content. Chemical Engineering Journal, 2008, 141, 298-304.	6.6	51
70	Hydrogen production by auto-thermal reforming of ethanol over nickel catalysts supported on Ce-modified mesoporous zirconia: Effect of Ce/Zr molar ratio. International Journal of Hydrogen Energy, 2008, 33, 5052-5059.	3.8	58
71	Effect of calcination temperature of mesoporous alumina xerogel (AX) supports on hydrogen production by steam reforming of liquefied natural gas (LNG) over Ni/AX catalysts. International Journal of Hydrogen Energy, 2008, 33, 7427-7434.	3.8	36
72	Hydrogen production by auto-thermal reforming of ethanol over Ni catalysts supported on ZrO2: Effect of preparation method of ZrO2 support. International Journal of Hydrogen Energy, 2008, 33, 7457-7463.	3.8	30

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73	Direct epoxidation of propylene with hydrogen peroxide over TS-1 catalysts: Effect of hydrophobicity of the catalysts. Catalysis Communications, 2008, 9, 2485-2488.	1.6	47
74	Synthesis of Dimethyl Carbonate from Methanol and Carbon Dioxide by Heteropolyacid/Metal Oxide Catalysts. Solid State Phenomena, 2007, 119, 287-290.	0.3	17
75	Role and effect of molybdenum on the performance of Ni-Mo/Î³-Al2O3 catalysts in the hydrogen production by auto-thermal reforming of ethanol. Journal of Molecular Catalysis A, 2007, 261, 276-281.	4.8	80
76	Hydrogen production by steam reforming of LNG over Ni/Al2O3â€“ZrO2 catalysts: Effect of Al2O3â€“ZrO2 supports prepared by a grafting method. Journal of Molecular Catalysis A, 2007, 268, 9-14.	4.8	52
77	Effect of SiO2-ZrO2 supports prepared by a grafting method on hydrogen production by steam reforming of liquefied natural gas over Ni/SiO2-ZrO2 catalysts. Journal of Power Sources, 2007, 168, 251-257.	4.0	20
78	Hydrogen production by steam reforming of liquefied natural gas over a nickel catalyst supported on mesoporous alumina xerogel. Journal of Power Sources, 2007, 173, 943-949.	4.0	32
79	Reduction potentials of heteropolyacid catalysts probed by scanning tunneling microscopy and UV-visible spectroscopy. Korean Journal of Chemical Engineering, 2007, 24, 51-54.	1.2	38
80	Hydrogen production by auto-thermal reforming of ethanol over Ni/Î³-Al2O3 catalysts: Effect of second metal addition. Journal of Power Sources, 2006, 162, 1270-1274.	4.0	50
81	UVâ€“visible absorption edge energy of heteropolyacids (HPAs) as a probe of catalytic performance of HPAs in the oxidative dehydrogenation of isobutyric acid. Journal of Molecular Catalysis A, 2006, 252, 252-255.	4.8	7
82	UVâ€“vis spectroscopy studies of H3PMo12â^'xWxO40 heteropolyacid (HPA) catalysts in the solid state: Effects of water content and polyatom substitution. Journal of Molecular Catalysis A, 2005, 241, 227-232.	4.8	36
83	UV-visible spectroscopic study of solid state 12-molybdophosphoricacid catalyst. Reaction Kinetics and Catalysis Letters, 2005, 87, 85-91.	0.6	11
84	Catalytic Characteristics of Metal Catalysts and Nitrate Salt of a Tripodal Ligand in a Basic Medium for Postcombustion CO₂ Capture Process. ACS Sustainable Chemistry and Engineering, 0, , .	3.2	1
85	SnO₂/ZnO Composite Hollow Nanofiber Electrocatalyst for Efficient CO₂ Reduction to Formate. ACS Sustainable Chemistry and Engineering, 0, , .	3.2	12