Min Hye Youn

List of Publications by Year
in descending order

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	Catholyteâ€Free Electrocatalytic CO₂ Reduction to Formate. Angewandte Chemie - International Edition, 2018, 57, 6883-6887.	7.2	143
2	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
3	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
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	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
13	Single Process for CO₂ Capture and Mineralization in Various Alkanolamines Using Calcium Chloride. Energy & Fuels, 2017, 31, 763-769.	2.5	49
14	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
15	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
16	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
17	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
18	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

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19	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
20	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
21	Carbon dioxide sequestration process for the cement industry. Journal of CO2 Utilization, 2019, 34, 325-334.	3.3	37
22	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
23	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
24	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
25	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
26	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
27	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
28	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
29	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
30	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
31	Eco-friendly prepared iron-ore-based catalysts for Fischer-Tropsch synthesis. Applied Catalysis B: Environmental, 2019, 244, 576-582.	10.8	30
32	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
33	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
34	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
35	Highly tunable syngas production by electrocatalytic reduction of CO2 using Ag/TiO2 catalysts. Chemical Engineering Journal, 2021, 413, 127448.	6.6	28
36	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

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37	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
38	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
39	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
40	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
41	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
42	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
43	Brief Review of Precipitated Iron-Based Catalysts for Low-Temperature Fischerâ€“Tropsch Synthesis. Topics in Catalysis, 2020, 63, 793-809.	1.3	22
44	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
45	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
46	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
47	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
48	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
49	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
50	Carbon Dioxide Sequestration by Using a Model Carbonic Anhydrase Complex in Tertiary Amine Medium. ChemSusChem, 2015, 8, 3977-3982.	3.6	19
51	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
52	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
53	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
54	Synthesis of Dimethyl Carbonate from Methanol and Carbon Dioxide by Heteropolyacid/Metal Oxide Catalysts. Solid State Phenomena, 2007, 119, 287-290.	0.3	17

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55	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
56	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
57	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
58	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
59	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
60	Hydrogen production by auto-thermal reforming of ethanol over Ni-Ti-Zr metal oxide catalysts. Renewable Energy, 2009, 34, 731-735.	4.3	14
61	SnO₂/ZnO Composite Hollow Nanofiber Electrocatalyst for Efficient CO₂ Reduction to Formate. ACS Sustainable Chemistry and Engineering, 0, , .	3.2	12
62	UV-visible spectroscopic study of solid state 12-molybdophosphoricacid catalyst. Reaction Kinetics and Catalysis Letters, 2005, 87, 85-91.	0.6	11
63	Production of linear Î±-olefin 1-octene via dehydration of 1-octanol over Al2O3 catalyst. Fuel, 2019, 256, 115957.	3.4	11
64	Preparation and Oxidation Catalysis of H5PMo10V2O40 Catalyst Immobilized on Nitrogen-Containing Spherical Carbon. Catalysis Letters, 2009, 132, 377-382.	1.4	10
65	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
66	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
67	The salt-based catalytic enhancement of CO₂ absorption by a tertiary amine medium. RSC Advances, 2016, 6, 64575-64580.	1.7	10
68	Effect of Ba impregnation on Al2O3 catalyst for 1-octene production by 1-octanol dehydration. Fuel, 2020, 281, 118791.	3.4	10
69	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
70	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
71	Catalytic upgrading of long-chain 1-alkene in synthetic fuels over shape-controlled cobalt oxide nanocrystals. Fuel, 2020, 269, 117397.	3.4	8
72	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

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73	Catalytic cracking of C5 raffinate to light olefins over NaOH-treated ZSM-5. Research on Chemical Intermediates, 2011, 37, 1173-1180.	1.3	6
74	Comparison of reactions with different calcium sources for CaCO₃ production using carbonic anhydrase. , 2020, 10, 898-906.		6
75	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
76	Characteristics of CO2 capture system using KIERSOL in the LNG flue gas. Energy Procedia, 2014, 63, 1745-1750.	1.8	5
77	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
78	Simultaneous Sodium Hydroxide Production by Membrane Electrolysis and Carbon Dioxide Capture. Chemical Engineering and Technology, 2017, 40, 2204-2211.	0.9	4
79	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
80	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
81	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
82	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
83	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
84	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
85	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