Jeong Gil Seo

List of Publications by Year in descending order

158 papers	5,395 citations	76326 40 h-index	123424 61 g-index
160 all docs	160 docs citations	160 times ranked	5675 citing authors

#	Article	IF	Citations
1	Yolk-shelled ZnCo2O4 microspheres: Surface properties and gas sensing application. Sensors and Actuators B: Chemical, 2018, 257, 906-915.	7.8	197
2	Recyclable composite nanofiber adsorbent for Li+ recovery from seawater desalination retentate. Chemical Engineering Journal, 2014, 254, 73-81.	12.7	150
3	Exceptional CO₂ working capacity in a heterodiamine-grafted metalâ€“organic framework. Chemical Science, 2015, 6, 3697-3705.	7.4	127
4	Hierarchical Mesoporous 3D Flower-like CuCo2O4/NF for High-Performance Electrochemical Energy Storage. Scientific Reports, 2016, 6, 31120.	3.3	125
5	An advanced and highly efficient Ce assisted NiFe-LDH electrocatalyst for overall water splitting. Sustainable Energy and Fuels, 2020, 4, 312-323.	4.9	125
6	Adsorptive Li+ mining from liquid resources by H2TiO3: Equilibrium, kinetics, thermodynamics, and mechanisms. Journal of Industrial and Engineering Chemistry, 2016, 35, 347-356.	5.8	99
7	Growth of urchin-like ZnCo2O4 microspheres on nickel foam as a binder-free electrode for high-performance supercapacitor and methanol electro-oxidation. Electrochimica Acta, 2017, 246, 941-950.	5.2	99
8	Methane production from carbon monoxide and hydrogen over nickelâ€“alumina xerogel catalyst: Effect of nickel content. Journal of Industrial and Engineering Chemistry, 2011, 17, 154-157.	5.8	90
9	Fineâ€Tuning of the Carbon Dioxide Capture Capability of Diamineâ€Grafted Metalâ€“Organic Framework Adsorbents Through Amine Functionalization. ChemSusChem, 2017, 10, 541-550.	6.8	88
10	Elevated temperature CO2 capture on nano-structured MgOâ€“Al2O3 aerogel: Effect of Mg/Al molar ratio. Chemical Engineering Journal, 2014, 242, 357-363.	12.7	87
11	Effect of anion type of imidazolium based polymer supported ionic liquids on the solvent free synthesis of cycloaddition of CO2 into epoxide. Catalysis Today, 2016, 265, 56-67.	4.4	87
12	Methanation of carbon dioxide over mesoporous Niâ€“Feâ€“Al2O3 catalysts prepared by a coprecipitation method: Effect of precipitation agent. Journal of Industrial and Engineering Chemistry, 2013, 19, 2016-2021.	5.8	82
13	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
14	H 2 TiO 3 composite adsorbent foam for efficient and continuous recovery of Li + from liquid resources. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 504, 267-279.	4.7	79
15	Mixed matrix nanofiber as a flow-through membrane adsorber for continuous Li+ recovery from seawater. Journal of Membrane Science, 2016, 510, 141-154.	8.2	79
16	Self-assembled hierarchical 3D â€“ NiO microspheres with ultra-thin porous nanoflakes for lithium-ion batteries. Journal of Power Sources, 2016, 302, 13-21.	7.8	79
17	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.	2.7	76
18	Homodiamine-functionalized metalâ€“organic frameworks with a MOF-74-type extended structure for superior selectivity of CO₂ over N₂. Journal of Materials Chemistry A, 2015, 3, 19177-19185.	10.3	75

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19	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.	7.1	62
20	Hydrogen production by steam reforming of liquefied natural gas (LNG) over mesoporous Niâ€“Laâ€“Al2O3 aerogel catalysts: Effect of La content. International Journal of Hydrogen Energy, 2011, 36, 8307-8315.	7.1	62
21	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.	20.2	60
22	Mechanistic insight into the quantitative synthesis of acetic acid by direct conversion of CH4 and CO2: An experimental and theoretical approach. Applied Catalysis B: Environmental, 2018, 229, 237-248.	20.2	59
23	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.	7.1	58
24	Electrochemical deposition of self-supported bifunctional copper oxide electrocatalyst for methanol oxidation and oxygen evolution reaction. Journal of Industrial and Engineering Chemistry, 2019, 76, 515-523.	5.8	57
25	Synthesis and characterization of multi-walled carbon nanotubes-supported dibenzo-14-crown-4 ether with proton ionizable carboxyl sidearm as Li+ adsorbents. Chemical Engineering Journal, 2015, 264, 89-98.	12.7	56
26	Electrochemical growth of Co(OH)₂ nanoflakes on Ni foam for methanol electro-oxidation. New Journal of Chemistry, 2017, 41, 9546-9553.	2.8	56
27	Dual Role of Deep Eutectic Solvent as a Solvent and Template for the Synthesis of Octahedral Cobalt Vanadate for an Oxygen Evolution Reaction. ACS Sustainable Chemistry and Engineering, 2018, 6, 16255-16266.	6.7	54
28	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
29	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.	12.7	51
30	Interplay between electrochemical reactions and mechanical responses in siliconâ€“graphite anodes and its impact on degradation. Nature Communications, 2021, 12, 2714.	12.8	51
31	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.	7.8	50
32	Hydrogenation of succinic acid to Î³-butyrolactone (GBL) over palladium catalyst supported on alumina xerogel: Effect of acid density of the catalyst. Journal of Industrial and Engineering Chemistry, 2011, 17, 316-320.	5.8	50
33	Activated carbon aerogel containing graphene as electrode material for supercapacitor. Materials Research Bulletin, 2014, 50, 240-245.	5.2	50
34	Covalently decorated crown ethers on magnetic graphene oxides as bi-functional adsorbents with tailorable ion recognition properties for selective metal ion capture in water. Chemical Engineering Journal, 2020, 389, 123421.	12.7	50
35	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.	7.1	49
36	Controlled oxidation state of Ti in MgO-TiO 2 composite for CO 2 capture. Chemical Engineering Journal, 2017, 308, 177-183.	12.7	49

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37	Liquid-liquid extraction of lithium using lipophilic dibenzo-14-crown-4 ether carboxylic acid in hydrophobic room temperature ionic liquid. Hydrometallurgy, 2016, 164, 362-371.	4.3	48
38	Bi-functionality of mesostructured MnCo2O4 microspheres for supercapacitor and methanol electro-oxidation. Ceramics International, 2017, 43, 2670-2679.	4.8	48
39	In Situ Observation of Carbon Dioxide Capture on Pseudo-Liquid Eutectic Mixture-Promoted Magnesium Oxide. ACS Applied Materials & Interfaces, 2018, 10, 2414-2422.	8.0	47
40	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.	2.7	46
41	Irreversible catalytic methylcyclohexane dehydrogenation by surface protonics at low temperature. RSC Advances, 2019, 9, 5918-5924.	3.6	44
42	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.	7.1	43
43	Low-temperature selective dehydrogenation of methylcyclohexane by surface protonics over Pt/anatase-TiO2 catalyst. International Journal of Hydrogen Energy, 2020, 45, 738-743.	7.1	43
44	One-pot synthesis of 2,5-diformylfuran from fructose using a magnetic bi-functional catalyst. RSC Advances, 2016, 6, 25678-25688.	3.6	41
45	Hydrogen production by steam reforming of ethanol over mesoporous Niâ€“Al2O3â€“ZrO2 xerogel catalysts: Effect of nickel content. International Journal of Hydrogen Energy, 2013, 38, 8285-8292.	7.1	40
46	Diamineâ€Functionalization of a Metalâ€“Organic Framework Adsorbent for Superb Carbon Dioxide Adsorption and Desorption Properties. ChemSusChem, 2018, 11, 1694-1707.	6.8	40
47	Hydrogen production by steam reforming of ethanol over mesoporous Niâ€“Al2O3â€“ZrO2 xerogel catalysts: Effect of Zr/Al molar ratio. International Journal of Hydrogen Energy, 2013, 38, 1376-1383.	7.1	38
48	A comprehensive investigation of the condensation of furanic platform molecules to C₁₄â€“C₁₅ fuel precursors over sulfonic acid functionalized silica supports. Green Chemistry, 2018, 20, 5133-5146.	9.0	38
49	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.	2.7	37
50	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.	7.1	37
51	Hierarchical free-standing networks of MnCo2S4 as efficient Electrocatalyst for oxygen evolution reaction. Journal of Industrial and Engineering Chemistry, 2019, 71, 452-459.	5.8	37
52	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.	7.1	36
53	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.	20.2	35
54	Free standing growth of MnCo₂O₄ nanoflakes as an electrocatalyst for methanol electro-oxidation. New Journal of Chemistry, 2017, 41, 15058-15063.	2.8	34

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55	Facile and cost-effective growth of a highly efficient MgCo₂O₄ electrocatalyst for methanol oxidation. Inorganic Chemistry Frontiers, 2018, 5, 1115-1120.	6.0	34
56	Cu₂O/CuO Electrocatalyst for Electrochemical Reduction of Carbon Dioxide to Methanol. Electroanalysis, 2021, 33, 705-712.	2.9	34
57	Mesoporous magnesium oxide nanoparticles derived via complexation-combustion for enhanced performance in carbon dioxide capture. Journal of Colloid and Interface Science, 2017, 498, 55-63.	9.4	33
58	Enhanced methane activation on diluted metalâ€“metal ensembles under an electric field: breakthrough in alloy catalysis. Chemical Communications, 2019, 55, 6693-6695.	4.1	33
59	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.	7.8	32
60	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.	12.7	32
61	Blended ionic liquid systems for macroalgae pretreatment. Renewable Energy, 2014, 66, 596-604.	8.9	32
62	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.	7.1	31
63	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.	5.8	31
64	Hydrogen production by steam reforming of ethanol over mesoporous Niâ€“Al2O3â€“ZrO2 aerogel catalyst. International Journal of Hydrogen Energy, 2013, 38, 15119-15127.	7.1	31
65	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.	7.1	30
66	Electron transport shuttle mechanism via an Feâ€“Nâ€“C bond derived from a conjugated microporous polymer for a supercapacitor. Dalton Transactions, 2018, 47, 852-858.	3.3	30
67	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.	7.1	29
68	Nano-sized metal-doped carbon aerogel for pseudo-capacitive supercapacitor. Current Applied Physics, 2011, 11, 631-635.	2.4	29
69	Self-assembled Mn₃O₄ nano-clusters over carbon nanotube threads with enhanced supercapacitor performance. New Journal of Chemistry, 2018, 42, 19608-19614.	2.8	29
70	Highly Efficient gâ€₃N₄ Nanorods with Dual Active Sites as an Electrocatalyst for the Oxygen Evolution Reaction. ChemCatChem, 2019, 11, 2870-2878.	3.7	29
71	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.	4.4	28
72	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.	7.1	28

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73	Esterification of carboxylic acids with alkyl halides using imidazolium based dicationic ionic liquids containing bis-trifluoromethane sulfonimide anions at room temperature. RSC Advances, 2015, 5, 26197-26208.	3.6	28
74	Green solvent ionic liquids: structural directing pioneers for microwave-assisted synthesis of controlled MgO nanostructures. RSC Advances, 2016, 6, 31675-31686.	3.6	28
75	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.	4.4	27
76	Hydrogenation of Succinic Acid to Î³-Butyrolactone over Palladium Catalyst Supported on Mesoporous Alumina Xerogel. Catalysis Letters, 2010, 138, 28-33.	2.6	27
77	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.	7.1	27
78	Hydrogen production by steam reforming of liquefied natural gas (LNG) over trimethylbenzene-assisted ordered mesoporous nickelâ€“alumina catalyst. International Journal of Hydrogen Energy, 2013, 38, 8751-8758.	7.1	27
79	Metal-free mild oxidation of 5-hydroxymethylfurfural to 2,5-diformylfuran. Korean Journal of Chemical Engineering, 2014, 31, 1362-1367.	2.7	27
80	Organic radical functionalized SBA-15 as a heterogeneous catalyst for facile oxidation of 5-hydroxymethylfurfural to 2,5-diformylfuran. Journal of Molecular Catalysis A, 2015, 404-405, 106-114.	4.8	27
81	Key factor for the anti-Arrhenius low-temperature heterogeneous catalysis induced by H⁺ migration: H⁺ coverage over support. Chemical Communications, 2020, 56, 3365-3368.	4.1	27
82	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.	7.1	26
83	Electric Field and Mobile Oxygen Promote Low-Temperature Oxidative Coupling of Methane over La_{1â€“x}Ca_xAlO_{3â^Î´} Perovskite Catalysts. ACS Omega, 2019, 4, 10438-10443.	3.5	25
84	Roomâ€Temperature Ultrafast Synthesis of NiCoâ€Layered Double Hydroxide as an Excellent Electrocatalyst for Water Oxidation. ChemistrySelect, 2019, 4, 2409-2415.	1.5	25
85	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.	7.8	24
86	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.	4.4	24
87	Collective use of deep eutectic solvent for one-pot synthesis of ternary Sn/SnO2@C electrode for supercapacitor. Journal of Alloys and Compounds, 2018, 732, 694-704.	5.5	24
88	Tailoring and exploring the basicity of magnesium oxide nanostructures in ionic liquids for Claisen-Schmidt condensation reaction. Energy, 2018, 160, 635-647.	8.8	24
89	Liquidâ€“liquid extraction of Li+using mixed ion carrier system at room temperature ionic liquid. Desalination and Water Treatment, 2015, 53, 2774-2781.	1.0	23
90	Interface modulation of a layer-by-layer electrodeposited FexCo(1â^'x)P/NiP@CC heterostructure for high-performance oxygen evolution reaction. Sustainable Energy and Fuels, 2020, 4, 1863-1874.	4.9	22

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91	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.	7.1	21
92	Pd catalyst supported on SiO2â€“Al2O3 xerogel for hydrocracking of paraffin wax to middle distillate. Journal of Industrial and Engineering Chemistry, 2011, 17, 310-315.	5.8	21
93	Synthesis of a dual-templated MgOâ€“Al2O3 adsorbent using block copolymer and ionic liquid for CO2 capture. Chemical Engineering Journal, 2015, 270, 411-417.	12.7	21
94	Low-temperature selective catalytic dehydrogenation of methylcyclohexane by surface protonics. RSC Advances, 2019, 9, 27743-27748.	3.6	21
95	Effect of Ba addition to Ga-Î±-Al2O3 catalyst on structure and catalytic selectivity for dehydrogenation of ethane. Applied Catalysis A: General, 2019, 581, 23-30.	4.3	21
96	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.	7.8	20
97	Epoxidation of Propylene with Hydrogen Peroxide Over TS-1 Catalyst Synthesized in the Presence of Polystyrene. Catalysis Letters, 2008, 122, 349-353.	2.6	20
98	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.	2.6	20
99	Direct Synthesis of Hydrogen Peroxide from Hydrogen and Oxygen Over Palladium Catalysts Supported on SO3H-Functionalized SiO2 and TiO2. Catalysis Letters, 2009, 130, 604-607.	2.6	20
100	Effects of metal cation doping in CeO₂ support on catalytic methane steam reforming at low temperature in an electric field. RSC Advances, 2020, 10, 14487-14492.	3.6	20
101	High Temperature Carbon Dioxide Capture on Nano-Structured MgOâ€“Al₂O₃ and CaOâ€“Al₂O₃ Adsorbents: An Experimental and Theoretical Study. Journal of Nanoscience and Nanotechnology, 2014, 14, 8531-8538.	0.9	19
102	Mesoporous Mn₂O₃/reduced graphene oxide (rGO) composite with enhanced electrochemical performance for Li-ion battery. Dalton Transactions, 2017, 46, 9777-9783.	3.3	19
103	Eutectic mixture promoted CO2 sorption on MgO-TiO2 composite at elevated temperature. Journal of Environmental Sciences, 2019, 76, 80-88.	6.1	19
104	Mechanically reinforced-CNT cathode for Li-O2 battery with enhanced specific energy via ex situ pore formation. Chemical Engineering Journal, 2020, 385, 123841.	12.7	19
105	Redox Properties and Catalytic Oxidation Activities of Polyatom-Substituted H n PW11M1O40 (MÂ=ÂV, Nb,) Tj ETQq1 1 0.784314 rg	2.6	18
106	Production of middle distillate through hydrocracking of paraffin wax over Pd/SiO2â€“Al2O3 catalysts. Journal of Industrial and Engineering Chemistry, 2010, 16, 790-794.	5.8	18
107	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.	7.1	18
108	SBA-15 supported ionic liquid phase (SILP) with H₂PW₁₂O₄₀^{â^’} for the hydrolytic catalysis of red macroalgal biomass to sugars. RSC Advances, 2016, 6, 33901-33909.	3.6	18

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109	Hydroxyalkylation/alkylation of 2-methylfuran and furfural over niobic acid catalysts for the synthesis of high carbon transport fuel precursors. Sustainable Energy and Fuels, 2020, 4, 3018-3028.	4.9	18
110	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.	2.6	17
111	Hierarchically assembled porous TiO2 nanoparticles with enhanced photocatalytic activity towards Rhodamine-B degradation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 586, 124199.	4.7	16
112	Characterisation of bacterial nanocellulose and nanostructured carbon produced from crude glycerol by Komagataeibacter sucrofermentans. Bioresource Technology, 2021, 342, 125918.	9.6	16
113	Production of Middle Distillate from Synthesis Gas in a Dual-bed Reactor Through Hydrocracking of Wax Over Mesoporous Pd-Al2O3 Composite Catalyst. Catalysis Letters, 2009, 130, 192-197.	2.6	15
114	Supported Bimetallic Catalysts for the Solvent-Free Hydrogenation of Levulinic Acid to Î³-Valerolactone: Effect of Metal Combination (Ni-Cu, Ni-Co, Cu-Co). Catalysts, 2020, 10, 1354.	3.5	15
115	Effect of Calcination Temperature on the Catalytic Performance of Î³-Bi2MoO6 in the Oxidative Dehydrogenation of n-Butene to 1,3-Butadiene. Catalysis Letters, 2009, 131, 401-405.	2.6	14
116	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.	7.1	14
117	Hydrogen production by auto-thermal reforming of ethanol over Ni-Ti-Zr metal oxide catalysts. Renewable Energy, 2009, 34, 731-735.	8.9	14
118	Enhanced Selectivity for CO₂ Adsorption on Mesoporous Silica with Alkali Metal Halide Due to Electrostatic Field: A Molecular Simulation Approach. ACS Applied Materials & Interfaces, 2017, 9, 31683-31690.	8.0	14
119	Dehydrogenation of Ethane via the Marsâ€“van Krevelen Mechanism over La_{0.8}Ba_{0.2}MnO_{3â^Î´} Perovskites under Anaerobic Conditions. Journal of Physical Chemistry C, 2019, 123, 26272-26281.	3.1	14
120	High-Loading Carbon Nanotubes on Polymer Nanofibers as Stand-Alone Anode Materials for Li-Ion Batteries. ACS Omega, 2019, 4, 4129-4137.	3.5	14
121	Support effects on catalysis of low temperature methane steam reforming. RSC Advances, 2020, 10, 26418-26424.	3.6	14
122	Governing factors of supports of ammonia synthesis in an electric field found using density functional theory. Journal of Chemical Physics, 2019, 151, 064708.	3.0	13
123	Encapsulation of Phase-Changing Eutectic Salts in Magnesium Oxide Fibers for High-Temperature Carbon Dioxide Capture: Beyond the Capacityâ€“Stability Tradeoff. ACS Applied Materials & Interfaces, 2020, 12, 518-526.	8.0	13
124	Highly porous honeycombâ€like activated carbon derived using cellulose pulp for symmetric supercapacitors. International Journal of Energy Research, 2021, 45, 4385-4395.	4.5	13
125	Preparation and performance of cobalt-doped carbon aerogel for supercapacitor. Korean Journal of Chemical Engineering, 2011, 28, 492-496.	2.7	12
126	MgO insertion endowed strong basicity in mesoporous alumina framework and improved CO2 sorption capacity. Journal of CO2 Utilization, 2020, 42, 101294.	6.8	12

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127	Predictive Guide for Collective CO₂ Adsorption Properties of Mgâ^'Al Mixed Oxides. ChemSusChem, 2017, 10, 1701-1709.	6.8	11
128	Mgâ€Ion Inversion in MgO@MgOâ^'Al₂O₃ Oxides: The Origin of Basic Sites. ChemSusChem, 2019, 12, 2810-2818.	6.8	11
129	Growth of binder free mesoporous 3D-CuCo2O4 electrocatalysts with high activity and stability for electro-oxidation of methanol. Ceramics International, 2021, 47, 3322-3328.	4.8	11
130	Preparation and Oxidation Catalysis of H5PMo10V2O40 Catalyst Immobilized on Nitrogen-Containing Spherical Carbon. Catalysis Letters, 2009, 132, 377-382.	2.6	10
131	Mesoporous Nickelâ€"Alumina Catalysts for Hydrogen Production by Steam Reforming of Liquefied Natural Gas (LNG). Catalysis Surveys From Asia, 2010, 14, 1-10.	2.6	10
132	Support Modification of Supported Nickel Catalysts for Hydrogen Production by Auto-thermal Reforming of Ethanol. Catalysis Surveys From Asia, 2010, 14, 55-63.	2.6	10
133	Synthesis and Characterization of AlCl₃ Impregnated Molybdenum Oxide as Heterogeneous Nano-Catalyst for the Friedel-Crafts Acylation Reaction in Ambient Condition. Journal of Nanoscience and Nanotechnology, 2015, 15, 8243-8250.	0.9	10
134	Template-Free Synthesis and Characterization of Nickel Oxide Nanocrystal with High-Energy Facets in Deep Eutectic Solvent. Journal of Nanoscience and Nanotechnology, 2016, 16, 11009-11013.	0.9	10
135	Substrate Effect of Platinum-Decorated Carbon on Enhanced Hydrogen Oxidation in PEMFC. ACS Omega, 2020, 5, 26902-26907.	3.5	10
136	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.	2.6	9
137	Radical-initiated oxidative conversion of methane to methanol over metallic iron and copper catalysts. Molecular Catalysis, 2018, 445, 232-239.	2.0	9
138	Solvothermal Synthesis of Mesoporous 3Dâ€CuCo₂O₄ Hollow Tubes as Efficient Electrocatalysts for Methanol Electroâ€Oxidation. ChemCatChem, 2019, 11, 6078-6085.	3.7	9
139	Unveiling the carbonation mechanism in molten salt-promoted MgO-Al2O3 sorbents. Journal of CO2 Utilization, 2020, 39, 101153.	6.8	9
140	Yolk-shell nickelâ€"cobalt phosphides as bifunctional catalysts in the solvent-free hydrogenation of Levulinic acid to gamma-Valerolactone. Renewable Energy, 2022, 191, 763-774.	8.9	9
141	Density functional theory approach to CO₂ adsorption on a spinel mineral: determination of binding coordination. RSC Advances, 2016, 6, 28607-28611.	3.6	8
142	Enhanced Cyclic Stability and CO2 Capture Performance of MgO-Al2O3 Sorbent Decorated with Eutectic Mixture. Energy Procedia, 2017, 114, 2421-2428.	1.8	8
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