Ahmed Sadeq Al-Fatesh

List of Publications by Year
in descending order

171 papers	7,255 citations	57631 44 h-index	76769 74 g-index
176 all docs	176 docs citations	176 times ranked	4589 citing authors

#	Article	IF	Citations
1	Strategies for mitigation of climate change: a review. Environmental Chemistry Letters, 2020, 18, 2069-2094.	8.3	532
2	Recent advances in carbon capture storage and utilisation technologies: a review. Environmental Chemistry Letters, 2021, 19, 797-849.	8.3	363
3	Strategies to achieve a carbon neutral society: a review. Environmental Chemistry Letters, 2022, 20, 2277-2310.	8.3	336
4	Conversion of biomass to biofuels and life cycle assessment: a review. Environmental Chemistry Letters, 2021, 19, 4075-4118.	8.3	263
5	Advanced materials and technologies for supercapacitors used in energy conversion and storage: a review. Environmental Chemistry Letters, 2021, 19, 375-439.	8.3	255
6	Hydrogen production, storage, utilisation and environmental impacts: a review. Environmental Chemistry Letters, 2022, 20, 153-188.	8.3	218
7	Biochar for agronomy, animal farming, anaerobic digestion, composting, water treatment, soil remediation, construction, energy storage, and carbon sequestration: a review. Environmental Chemistry Letters, 2022, 20, 2385-2485.	8.3	162
8	Methane decomposition over iron catalyst for hydrogen production. International Journal of Hydrogen Energy, 2015, 40, 7593-7600.	3.8	136
9	Coke formation during CO2 reforming of CH4 over alumina-supported nickel catalysts. Applied Catalysis A: General, 2009, 364, 150-155.	2.2	115
10	Renewable cellulosic nanocomposites for food packaging to avoid fossil fuel plastic pollution: a review. Environmental Chemistry Letters, 2021, 19, 613-641.	8.3	111
11	Role of La2O3 as Promoter and Support in Ni/Î³-Al2O3 Catalysts for Dry Reforming of Methane. Chinese Journal of Chemical Engineering, 2014, 22, 28-37.	1.7	109
12	In situ auto-gasification of coke deposits over a novel Ni-Ce/W-Zr catalyst by sequential generation of oxygen vacancies for remarkably stable syngas production via CO2-reforming of methane. Applied Catalysis B: Environmental, 2021, 280, 119445.	10.8	104
13	The production and application of carbon nanomaterials from high alkali silicate herbaceous biomass. Scientific Reports, 2020, 10, 2563.	1.6	93
14	Production and characterisation of activated carbon and carbon nanotubes from potato peel waste and their application in heavy metal removal.. Environmental Science and Pollution Research, 2019, 26, 37228-37241.	2.7	90
15	Techno-economic evaluation of biogas production from food waste via anaerobic digestion. Scientific Reports, 2020, 10, 15719.	1.6	87
16	Catalytic performance of CeO2 and ZrO2 supported Co catalysts for hydrogen production via dry reforming of methane. International Journal of Hydrogen Energy, 2015, 40, 6818-6826.	3.8	85
17	CO2-reforming of methane to produce syngas over Co-Ni/SBA-15 catalyst: Effect of support modifiers (Mg, La and Sc) on catalytic stability. Journal of CO2 Utilization, 2017, 21, 395-404.	3.3	83
18	Rh promoted and ZrO2/Al2O3 supported Ni/Co based catalysts: High activity for CO2 reforming, steamâ€“CO2 reforming and oxyâ€“CO2 reforming ofÂCH4. International Journal of Hydrogen Energy, 2018, 43, 12069-12080.	3.8	79

#	Article	IF	Citations
19	Industrial biochar systems for atmospheric carbon removal: a review. Environmental Chemistry Letters, 2021, 19, 3023-3055.	8.3	79
20	Mass spectrometry study of lignocellulosic biomass combustion and pyrolysis with NOx removal. Renewable Energy, 2020, 146, 484-496.	4.3	77
21	Critical challenges in biohydrogen production processes from the organic feedstocks. Biomass Conversion and Biorefinery, 2023, 13, 8383-8401.	2.9	75
22	Effects of Selected Promoters on Ni/Y-Al2O3 Catalyst Performance in Methane Dry Reforming. Chinese Journal of Catalysis, 2011, 32, 1604-1609.	6.9	69
23	Upcycling brewer's spent grain waste into activated carbon and carbon nanotubes for energy and other applications via twoâ€stage activation. Journal of Chemical Technology and Biotechnology, 2020, 95, 183-195.	1.6	69
24	A bimetallic catalyst on a dual component support for low temperature total methane oxidation. Applied Catalysis B: Environmental, 2016, 187, 408-418.	10.8	68
25	Ketonization of oxygenated hydrocarbons on metal oxide based catalysts. Catalysis Today, 2018, 302, 16-49.	2.2	65
26	Energetic and exergetic analysis of solar-powered lithium bromide-water absorption cooling system. Journal of Cleaner Production, 2017, 151, 60-73.	4.6	63
27	Enhanced catalytic activity of Ni on Î-Al 2 O 3 and ZSM-5 on addition of ceria zirconia for the partial oxidation of methane. Applied Catalysis B: Environmental, 2017, 212, 68-79.	10.8	62
28	Catalytic Hydrogen Production fromÂMethane Partial Oxidation: MechanismÂandÂKinetic Study. Chemical Engineering and Technology, 2020, 43, 641-648.	0.9	62
29	Stabilities of zeolite-supported Ni catalysts for dry reforming of methane. Chinese Journal of Catalysis, 2013, 34, 764-768.	6.9	60
30	Activities of Ni-based nano catalysts for CO2â€"CH4 reforming prepared by polyol process. Fuel Processing Technology, 2014, 122, 141-152.	3.7	60
31	Hydrogen production via catalytic methane decomposition over alumina supported iron catalyst. Arabian Journal of Chemistry, 2018, 11, 405-414.	2.3	60
32	CO2 reforming of CH4: Effect of Gd as promoter for Ni supported over MCM-41 as catalyst. Renewable Energy, 2019, 140, 658-667.	4.3	59
33	Effects of calcination and activation temperature on dry reforming catalysts. Journal of Saudi Chemical Society, 2012, 16, 55-61.	2.4	57
34	Thermal Investigation and Kinetic Modeling of Lignocellulosic Biomass Combustion for Energy Production and Other Applications. Industrial & Engineering Chemistry Research, 2017, 56, 12119-12130.	1.8	56
35	Assessment of the energy recovery potential of waste Photovoltaic (PV) modules. Scientific Reports, 2019, 9, 5267.	1.6	56
36	Ameliorative Impact of an Extract of the Halophyte Arthrocnemum macrostachyum on Growth and Biochemical Parameters of Soybean Under Salinity Stress. Journal of Plant Growth Regulation, 2021, 40, 1245-1256.	2.8	56

#	Article	IF	Citations
37	Pyrolysis kinetic modelling of abundant plastic waste (PET) and in-situ emission monitoring. Environmental Sciences Europe, 2020, 32, .	2.6	54
38	Production of hydrogen and carbon nanofibers from methane over Niâ€“Coâ€“Al catalysts. International Journal of Hydrogen Energy, 2015, 40, 1774-1781.	3.8	53
39	Hydrogen production from methane dry reforming over nickel-based nanocatalysts using surfactant-assisted or polyol method. International Journal of Hydrogen Energy, 2014, 39, 17009-17023.	3.8	50
40	Syngas production via CO2 reforming of methane using Co-Sr-Al catalyst. Journal of Industrial and Engineering Chemistry, 2014, 20, 549-557.	2.9	50
41	Enhancing hydrogen production by dry reforming process with strontium promoter. International Journal of Hydrogen Energy, 2014, 39, 1680-1687.	3.8	49
42	Production of hydrogen by catalytic methane decomposition over alumina supported mono-, bi- and tri-metallic catalysts. International Journal of Hydrogen Energy, 2016, 41, 22932-22940.	3.8	49
43	Solar photo-oxidation of recalcitrant industrial wastewater: a review. Environmental Chemistry Letters, 2022, 20, 1839-1862.	8.3	49
44	MoS2-based nanocomposites: synthesis, structure, and applications in water remediation and energy storage: a review. Environmental Chemistry Letters, 2021, 19, 3645-3681.	8.3	48
45	A Facile Green Synthetic Route for the Preparation of Highly Active Î³-Al2O3 from Aluminum Foil Waste. Scientific Reports, 2017, 7, 3593.	1.6	47
46	Effect of pre-treatment and calcination temperature on Al2O3-ZrO2 supported Ni-Co catalysts for dry reforming of methane. International Journal of Hydrogen Energy, 2019, 44, 21546-21558.	3.8	47
47	The effect of modifier identity on the performance of Ni-based catalyst supported on Î³-Al2O3 in dry reforming of methane. Catalysis Today, 2020, 348, 236-242.	2.2	46
48	Decomposition of methane over alumina supported Fe and Niâ€“Fe bimetallic catalyst: Effect of preparation procedure and calcination temperature. Journal of Saudi Chemical Society, 2018, 22, 239-247.	2.4	44
49	Impact of ceria over WO3â€“ZrO2 supported Ni catalyst towards hydrogen production through dry reforming of methane. International Journal of Hydrogen Energy, 2021, 46, 25015-25028.	3.8	44
50	CO2 Reforming of Methane to Produce Syngas over Î³-Al2O3-Supported Niâ€“Sr Catalysts. Bulletin of the Chemical Society of Japan, 2013, 86, 742-748.	2.0	42
51	Evaluation of Co-Ni/Sc-SBAâ€“15 as a novel coke resistant catalyst for syngas production via CO2 reforming of methane. Applied Catalysis A: General, 2018, 567, 102-111.	2.2	42
52	Promotional effect of magnesium oxide for a stable nickel-based catalyst in dry reforming of methane. Scientific Reports, 2020, 10, 13861.	1.6	42
53	Thermokinetic study of residual solid digestate from anaerobic digestion. Chemical Engineering Journal, 2021, 406, 127039.	6.6	42
54	Physicochemical characterization of miscanthus and its application in heavy metals removal from wastewaters. Environmental Progress and Sustainable Energy, 2018, 37, 1058-1067.	1.3	41

#	Article	IF	Citations
55	Hydrogen production from CH4 dry reforming over Sc promoted Ni / MCM-41. International Journal of Hydrogen Energy, 2019, 44, 20770-20781.	3.8	40
56	Exploring the photocatalytic hydrogen production potential of titania doped with alumina derived from foil waste. International Journal of Hydrogen Energy, 2020, 45, 34494-34502.	3.8	39
57	Optimizing acido-basic profile of support in Ni supported La2O3+Al2O3 catalyst for dry reforming of methane. International Journal of Hydrogen Energy, 2021, 46, 14225-14235.	3.8	39
58	Insights on magnetic spinel ferrites for targeted drug delivery and hyperthermia applications. Nanotechnology Reviews, 2022, 11, 372-413.	2.6	39
59	Silver-Modified Î·-Al₂O₃ Catalyst for DME Production. Journal of Physical Chemistry C, 2017, 121, 25018-25032.	1.5	38
60	Impact of precursor sequence of addition for one-pot synthesis of Cr-MCM-41 catalyst nanoparticles to enhance ethane oxidative dehydrogenation with carbon dioxide. Ceramics International, 2019, 45, 1125-1134.	2.3	38
61	Promotional effect of addition of ceria over yttria-zirconia supported Ni based catalyst system for hydrogen production through dry reforming of methane. International Journal of Hydrogen Energy, 2022, 47, 20838-20850.	3.8	38
62	La 2 O 3 supported bimetallic catalysts for the production of hydrogen and carbon nanomaterials from methane. International Journal of Hydrogen Energy, 2016, 41, 976-983.	3.8	36
63	Promotional effect of Gd over Ni/Y2O3 catalyst used in dry reforming of CH4 for H2 production. International Journal of Hydrogen Energy, 2017, 42, 18805-18816.	3.8	36
64	A highly active and synergistic Pt/Mo2C/Al2O3 catalyst for water-gas shift reaction. Molecular Catalysis, 2018, 455, 38-47.	1.0	36
65	Catalytic methane decomposition over ZrO2 supported iron catalysts: Effect of WO3 and La2O3 addition on catalytic activity and stability. Renewable Energy, 2020, 155, 969-978.	4.3	36
66	Synthesis of silver nanoparticles decorated on reduced graphene oxide nanosheets and their electrochemical sensing towards hazardous 4-nitrophenol. Journal of Materials Science: Materials in Electronics, 2020, 31, 11927-11937.	1.1	33
67	Effect of Cerium Promoters on an MCM-41-Supported Nickel Catalyst in Dry Reforming of Methane. Industrial & Engineering Chemistry Research, 2022, 61, 164-174.	1.8	33
68	Enhanced coke suppression by using phosphate-zirconia supported nickel catalysts under dry methane reforming conditions. International Journal of Hydrogen Energy, 2019, 44, 27784-27794.	3.8	32
69	Physicochemical Characterization and Kinetic Modeling Concerning Combustion of Waste Berry Pomace. ACS Sustainable Chemistry and Engineering, 2020, 8, 17573-17586.	3.2	31
70	Study of Methane Decomposition on Fe/MgO-Based Catalyst Modified by Ni, Co, and Mn Additives. Chemical Engineering Communications, 2017, 204, 739-749.	1.5	30
71	Ni supported on La2O3+ZrO2 for dry reforming of methane: The impact of surface adsorbed oxygen species. International Journal of Hydrogen Energy, 2021, 46, 3780-3788.	3.8	30
72	Suppression of carbon formation in CH 4 â€“CO 2 reforming by addition of Sr into bimetallic Niâ€“Co/Î³-Al 2 O 3 catalyst. Journal of King Saud University, Engineering Sciences, 2015, 27, 101-107.	1.2	29

#	Article	IF	Citations
73	Yttria Modified ZrO₂ Supported Ni Catalysts for CO₂ Reforming of Methane: The Role of Ce Promoter. ACS Omega, 2021, 6, 1280-1288.	1.6	29
74	Ni catalysts with different promoters supported on zeolite for dry reforming of methane. Applied Petrochemical Research, 2015, 5, 329-337.	1.3	28
75	Production of hydrogen from methane over lanthanum supported bimetallic catalysts. International Journal of Hydrogen Energy, 2016, 41, 8193-8198.	3.8	28
76	Engineered magnetic oxides nanoparticles as efficientÂsorbents for wastewater remediation: a review. Environmental Chemistry Letters, 2022, 20, 519-562.	8.3	28
77	An overview of caprolactam synthesis. Catalysis Reviews - Science and Engineering, 2019, 61, 516-594.	5.7	27
78	Î³-FeOOH and Î³-FeOOH decorated multi-layer graphene: Potential materials for selenium(VI) removal from water. Journal of Water Process Engineering, 2020, 37, 101396.	2.6	27
79	Hydrogen Production by Partial Oxidation Reforming of Methane over Ni Catalysts Supported on High and Low Surface Area Alumina and Zirconia. Processes, 2020, 8, 499.	1.3	26
80	Integrating life cycle assessment and characterisation techniques: A case study of biodiesel production utilising waste Prunus Armeniaca seeds (PAS) and a novel catalyst. Journal of Environmental Management, 2022, 304, 114319.	3.8	26
81	Effect of Ce and Co Addition to Fe/Al2O3 for Catalytic Methane Decomposition. Catalysts, 2016, 6, 40.	1.6	25
82	Impact of Ce-Loading on Ni-catalyst supported over La2O3+ZrO2 in methane reforming with CO2. International Journal of Hydrogen Energy, 2020, 45, 33343-33351.	3.8	25
83	Barium-Promoted Yttriaâ€“Zirconia-Supported Ni Catalyst for Hydrogen Production via the Dry Reforming of Methane: Role of Barium in the Phase Stabilization of Cubic ZrO₂. ACS Omega, 2022, 7, 16468-16483.	1.6	25
84	Catalytic Behaviour of Ce-Doped Ni Systems Supported on Stabilized Zirconia under Dry Reforming Conditions. Catalysts, 2019, 9, 473.	1.6	24
85	Influence of Support Type and Metal Loading in Methane Decomposition over Iron Catalyst for Hydrogen Production. Journal of the Chinese Chemical Society, 2015, 62, 592-599.	0.8	23
86	Kinetic Investigation of Î·-Al2O3 Catalyst for Dimethyl Ether Production. Catalysis Letters, 2018, 148, 1236-1245.	1.4	23
87	Characterisation of Robust Combustion Catalyst from Aluminium Foil Waste. ChemistrySelect, 2018, 3, 1545-1550.	0.7	23
88	Role of TiO2 nanoparticle modification of Cr/MCM41 catalyst to enhance Cr-support interaction for oxidative dehydrogenation of ethane with carbon dioxide. Applied Catalysis A: General, 2019, 584, 117114.	2.2	23
89	Influence of Nature Support on Methane and CO2 Conversion in a Dry Reforming Reaction over Nickel-Supported Catalysts. Materials, 2019, 12, 1777.	1.3	23
90	Comprehensive thermokinetic modelling and predictions of cellulose decomposition in isothermal, non-isothermal, and stepwise heating modes. Journal of Analytical and Applied Pyrolysis, 2022, 161, 105427.	2.6	23

#	Article	IF	Citations
91	Gallium-Promoted Ni Catalyst Supported on MCM-41 for Dry Reforming of Methane. Catalysts, 2018, 8, 229.	1.6	22
92	Highly Selective Syngas/H2 Production via Partial Oxidation of CH4 Using (Ni, Co and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 Td (Niâ	1.3	22
93	Removal of lead (Pb(II)) and zinc (Zn(II)) from aqueous solution using coal fly ash (CFA) as a dual-sites adsorbent. Chinese Journal of Chemical Engineering, 2021, 34, 289-298.	1.7	22
94	Role of Mixed Oxides in Hydrogen Production through the Dry Reforming of Methane over Nickel Catalysts Supported on Modified Î³-Al2O3. Processes, 2021, 9, 157.	1.3	22
95	Ce promoted lanthana-zirconia supported Ni catalyst system: A ternary redox system for hydrogen production. Molecular Catalysis, 2021, 504, 111498.	1.0	22
96	Influence of promoted 5%Ni/MCM-41 catalysts on hydrogen yield in CO₂reforming of CH₄. International Journal of Energy Research, 2018, 42, 4120-4130.	2.2	21
97	Dry Reforming of Methane Using Ce-modified Ni Supported on 8%PO4 + ZrO2 Catalysts. Catalysts, 2020, 10, 242.	1.6	21
98	Role of Ca, Cr, Ga and Gd promotor over lanthanaâ€zirconiaâ€“supported Ni catalyst towards H₂â€rich syngas production through dry reforming of methane. Energy Science and Engineering, 2022, 10, 866-880.	1.9	21
99	The Effect of Sc Promoter on the Performance of Co/<scp>TiO₂â€“P25</scp> Catalyst in Dry Reforming of Methane. Bulletin of the Korean Chemical Society, 2015, 36, 2081-2088.	1.0	20
100	Chemical composition of diesel particulate matter and its control. Catalysis Reviews - Science and Engineering, 2019, 61, 447-515.	5.7	20
101	Catalytic Performance of Lanthanum Promoted Ni/ZrO2 for Carbon Dioxide Reforming of Methane. Processes, 2020, 8, 1502.	1.3	20
102	Optimizing yttria-zirconia proportions in Ni supported catalyst system for H2 production through dry reforming of methane. Molecular Catalysis, 2021, 510, 111676.	1.0	20
103	Ceria promoted phosphateâ€zirconia supported Ni catalyst for hydrogen rich syngas production through dry reforming of methane. International Journal of Energy Research, 2021, 45, 19289-19302.	2.2	20
104	Facile technique towards clean fuel production by upgrading waste cooking oil in the presence of a heterogeneous catalyst. Journal of King Saud University - Science, 2020, 32, 3410-3416.	1.6	19
105	<i>Phoenix dactylifera</i> mediated green synthesis of Cu₂O particles for arsenite uptake from water. Science and Technology of Advanced Materials, 2016, 17, 760-768.	2.8	18
106	Catalytic Performance of Metal Oxides Promoted Nickel Catalysts Supported on Mesoporous Î³-Alumina in Dry Reforming of Methane. Processes, 2020, 8, 522.	1.3	18
107	Highly active InOx/TUD-1 catalyst towards Baeyerâ€“Villiger oxidation of cyclohexanone using molecular oxygen and benzaldehyde. Catalysis Communications, 2016, 74, 80-84.	1.6	17
108	Synthesis of chitosan based semi-IPN hydrogels using epichlorohydrine as crosslinker to study the adsorption kinetics of Rhodamine B. Desalination and Water Treatment, 2016, 57, 17523-17536.	1.0	17

#	Article	IF	Citations
109	Bi-metallic catalysts of mesoporous Al2O3 supported on Fe, Ni and Mn for methane decomposition: Effect of activation temperature. Chinese Journal of Chemical Engineering, 2018, 26, 1904-1911.	1.7	17
110	H2 Production from Catalytic Methane Decomposition Using Fe/x-ZrO2 and Fe-Ni/(x-ZrO2) (x = 0, La2O3,) Tj ETQq0 0 0 rgBT /Overlock 1	1.6	17
111	Oxidative CO2 reforming of CH4 over Ni/Î±-Al2O3 catalyst. Journal of Industrial and Engineering Chemistry, 2011, 17, 479-483.	2.9	16
112	Crystallization and thermal stability of polypropylene/multi-wall carbon nanotube nanocomposites. Philosophical Magazine Letters, 2016, 96, 367-374.	0.5	16
113	Template-free synthesis of nitrogen doped carbon materials from an organic ionic dye (murexide) for supercapacitor application. RSC Advances, 2017, 7, 54626-54637.	1.7	16
114	Combined Magnesia, Ceria and Nickel catalyst supported over Î³-Alumina Doped with Titania for Dry Reforming of Methane. Catalysts, 2019, 9, 188.	1.6	16
115	Production of Synthesis Gas via Dry Reforming of Methane over Coâ€Based Catalysts: Effect on H₂/CO Ratio and Carbon Deposition. Chemical Engineering and Technology, 2015, 38, 1397-1405.	0.9	15
116	Preparation and characterization of mesoporous Î³-Al2O3 recovered from aluminum cans waste and its use in the dehydration of methanol to dimethyl ether. Journal of Material Cycles and Waste Management, 2018, 20, 1428-1436.	1.6	15
117	Iridium promoted Niâ€Co/Al₂O₃â€ZrO₂ catalyst for dry reforming of methane. Canadian Journal of Chemical Engineering, 2018, 96, 955-960.	0.9	15
118	The Effect of Calcination Temperature on Various Sources of ZrO2 Supported Ni Catalyst for Dry Reforming of Methane. Catalysts, 2022, 12, 361.	1.6	15
119	Methane decomposition over Fe supported catalysts for hydrogen and nano carbon yield. Catalysis for Sustainable Energy, 2015, 2, 71-82.	0.7	14
120	Iron catalyst for decomposition of methane: Influence of Al/Si ratio support. Egyptian Journal of Petroleum, 2018, 27, 1221-1225.	1.2	14
121	Nanosized Ni/SBA-15 Catalysts for CO2 Reforming of CH4. Applied Sciences (Switzerland), 2019, 9, 1926.	1.3	14
122	Silica-immobilized ionic liquid BrÃ¸nsted acids as highly effective heterogeneous catalysts for the isomerization of <i>n</i>-heptane and <i>n</i>-octane. RSC Advances, 2020, 10, 15282-15292.	1.7	14
123	Mg and Cu incorporated CoFe2O4 catalyst: characterization and methane cracking performance for hydrogen and nano-carbon production. Ceramics International, 2021, 47, 27201-27209.	2.3	14
124	Modification of alumina support with TiO2-P25 in CO2 reforming of CH4. Journal of Industrial and Engineering Chemistry, 2012, 18, 212-217.	2.9	13
125	Reforming of Methane by CO₂ over Bimetallic Ni-Mn/Î³-Al₂O₃ Catalyst. Chinese Journal of Chemical Physics, 2014, 27, 214-220.	0.6	13
126	Low Temperature CO Oxidation Over a Novel Nano-Structured, Mesoporous CeO2 Supported Au Catalyst. Catalysis Letters, 2019, 149, 127-140.	1.4	13

#	Article	IF	Citations
127	Methane Decomposition Over ZrO2-Supported Fe and Feâ€"Ni Catalystsâ€"Effects of Doping La2O3 and WO3. Frontiers in Chemistry, 2020, 8, 317.	1.8	13
128	Morphology Dependent Catalytic Activity of Mn3O4 for Complete Oxidation of Toluene and Carbon Monoxide. Catalysis Letters, 2021, 151, 172-183.	1.4	13
129	Characterization and kinetic modeling for pyrolytic conversion of cotton stalks. Energy Science and Engineering, 2021, 9, 1908-1918.	1.9	13
130	Pyrolysis Kinetic Modeling of a Poly(ethylene-co-vinyl acetate) Encapsulant Found in Waste Photovoltaic Modules. Industrial & Engineering Chemistry Research, 2021, 60, 13492-13504.	1.8	13
131	Sustainable Production of Synthesis Gases via State of the Art Metal Supported Catalytic Systems: An Overview. Journal of the Chinese Chemical Society, 2013, 60, 1297-1308.	0.8	12
132	Acidic ionic liquids containing variable cationic head groups for catalytic isomerization of n-hexane. Journal of Molecular Liquids, 2019, 288, 111047.	2.3	12
133	Hydrogen production by catalytic methane decomposition over Ni, Co, and Ni-Co/Al₂O₃catalyst. Petroleum Science and Technology, 2016, 34, 1617-1623.	0.7	11
134	Iron Oxide Supported on Al₂O₃ Catalyst for Methane Decomposition Reaction: Effect of MgO Additive and Calcination Temperature. Journal of the Chinese Chemical Society, 2016, 63, 205-212.	0.8	11
135	Dry Reforming of Methane Using Ni Catalyst Supported on ZrO2: The Effect of Different Sources of Zirconia. Catalysts, 2021, 11, 827.	1.6	11
136	Adsorptive removal of some Cl-VOC's as dangerous environmental pollutants using feather-like Î³-Al2O3 derived from aluminium waste with life cycle analysis. Chemosphere, 2022, 295, 133795.	4.2	11
137	Hydrogen production from CO₂ reforming of methane using zirconia supported nickel catalyst. RSC Advances, 2022, 12, 10846-10854.	1.7	11
138	Kinetic modelling for pyrolytic degradation of olive tree pruning residues with predictions under various heating configurations. Chemical Engineering Research and Design, 2022, 161, 221-230.	2.7	11
139	Performance Study of Methane Dry Reforming on Ni/ZrO2 Catalyst. Energies, 2022, 15, 3841.	1.6	11
140	Hydrogen Yield from CO2 Reforming of Methane: Impact of La2O3 Doping on Supported Ni Catalysts. Energies, 2021, 14, 2412.	1.6	10
141	Modification of CeNi0.9Zr0.1O3 Perovskite Catalyst by Partially Substituting Yttrium with Zirconia in Dry Reforming of Methane. Materials, 2022, 15, 3564.	1.3	10
142	Effect of Nanoâ€support and Type of Active Metal on Reforming of CH₄ with CO₂. Journal of the Chinese Chemical Society, 2014, 61, 461-470.	0.8	9
143	Effect of SO2 on Catalytic CO Oxidation Over Nano-Structured, Mesoporous Au/Ce1â^'xZrxO2 Catalysts. Catalysis Letters, 2017, 147, 2893-2900.	1.4	9
144	In Situ Regeneration of Alumina-Supported Cobaltâ€"Iron Catalysts for Hydrogen Production by Catalytic Methane Decomposition. Catalysts, 2018, 8, 567.	1.6	9

#	Article	IF	Citations
145	Kinetics of long chain n-paraffin dehydrogenation over a commercial Pt-Sn-K-Mg/Î³-Al2O3 catalyst: Model studies using n-dodecane. Applied Catalysis A: General, 2019, 579, 130-140.	2.2	9
146	Lanthanumâ€“Cerium-Modified Nickel Catalysts for Dry Reforming of Methane. Catalysts, 2022, 12, 715.	1.6	9
147	Activity and Carbon Formation of a Low Ni-Loading Alumina-Supported Catalyst. Journal of Chemical Engineering of Japan, 2011, 44, 328-335.	0.3	8
148	Ni nanoparticles prepared by simple chemical method for the synthesis of Ni/NiO-multi-layered graphene by chemical vapor deposition. Solid State Sciences, 2017, 64, 34-40.	1.5	8
149	Optimizing MgO Content for Boosting Î³-Al2O3-Supported Ni Catalyst in Dry Reforming of Methane. Catalysts, 2021, 11, 1233.	1.6	8
150	Naturally occurring neem gum: An unprecedented green resource for bioelectrochemical flexible energy storage device. International Journal of Energy Research, 2020, 44, 913-924.	2.2	7
151	Boosting NiO Catalytic Activity by x wtâ€‰% Fâ€ions and K₂O for the Production of Methyl Ethyl Ketone (MEK) via Catalytic Dehydrogenation of 2â€Butanol. ChemCatChem, 2021, 13, 2200-2214.	1.8	7
152	CO2 reforming of CH4 over Ni-catalyst supported on yttria stabilized zirconia. Journal of Saudi Chemical Society, 2021, 25, 101244.	2.4	6
153	Dry Reforming of Methane with Ni Supported on Mechanically Mixed Yttria-Zirconia Support. Catalysis Letters, 2022, 152, 3632-3641.	1.4	6
154	Investigation of Suitable Pretreatment for Dry Reforming of Methane Over Ni/Al₂O₃. Advanced Materials Research, 2011, 233-235, 1665-1673.	0.3	5
155	Spatio-temporal analyses of extracted citrullus colocynthis seeds (Handal seed oil) as biofuel in internal combustion engine. Renewable Energy, 2020, 166, 234-244.	4.3	5
156	Study of Partial Oxidation of Methane by Ni/Al2O3 Catalyst: Effect of Support Oxides of Mg, Mo, Ti and Y as Promoters. Molecules, 2020, 25, 5029.	1.7	5
157	Effect of Pressure on Na0.5La0.5Ni0.3Al0.7O2.5 Perovskite Catalyst for Dry Reforming of CH4. Catalysts, 2020, 10, 379.	1.6	5
158	Assessment of Lewisâ€Acidic Surface Sites Using Tetrahydrofuran as a Suitable and Smart Probe Molecule. ChemistryOpen, 2022, 11, e202200021.	0.9	5
159	Ni/Y- Zeolite Catalysts for Carbon Dioxide Reforming of Methane. Advanced Materials Research, 2012, 550-553, 325-328.	0.3	4
160	Kaolin-Supported Ni Catalysts for Dry Methane Reforming: Effect of Cs and Mixed Kâ€“Na Promoters. Journal of Chemical Engineering of Japan, 2019, 52, 232-238.	0.3	4
161	Methane decomposition over strontium promoted iron catalyst: effect of different ratio of Al/Si support on hydrogen yield. Chemical Engineering Communications, 2020, 207, 1148-1156.	1.5	4
162	Highly basic and active ZnOâ€“<i>x</i>% K₂O nanocomposite catalysts for the production of methyl ethyl ketone biofuel. Energy Science and Engineering, 2022, 10, 2827-2841.	1.9	3

#	Article	IF	Citations
163	Effect of Calcium Promoter on Ni-Based Catalysts Supported on Î±-Al₂O₃ and TiO₂-P25. Applied Mechanics and Materials, 0, 204-208, 3909-3913.	0.2	2
164	Suitability of Titania and Magnesia as Support for Methane Decomposition Catalyst Using Iron as Active Materials. Journal of Chemical Engineering of Japan, 2016, 49, 552-562.	0.3	2
165	Rapid investigation of paraffin dehydrogenation catalyst by TPRn/SPI-TOF-MS technique for industrial application. Applied Catalysis A: General, 2016, 514, 241-247.	2.2	2
166	The role of synthesis method on ZnO nanoparticles: implications for zinc dissolution and arsenite adsorption in water. , 0, 123, 138-149.		2
167	Effect of Pd on CH₄ Reforming with CO₂ Catalyzed by Ni over Mixed Titian â€“Alumina Support. Advanced Materials Research, 2012, 476-478, 513-518.	0.3	1
168	Catalytic Decomposition of Methane over La₂O₃ Supported Mono- and Bimetallic Catalysts. Applied Mechanics and Materials, 0, 625, 275-279.	0.2	1
169	Methane Reforming Using a Niâ€“Ag/Î³-Al₂O₃ Catalyst. Journal of Chemical Engineering of Japan, 2013, 46, 158-161.	0.3	1
170	Effects of promoters on methane dry reforming over Ni catalyst on a mixed (a-Al2O3+TiO2-P25) support. International Journal of Physical Sciences, 2011, 6, .	0.1	0
171	Sterically Hindered Amine Functionalized Zeolites Prepared from Fly Ash for Effective Carbon Dioxide Adsorption. Current Science, 2020, 119, 123.	0.4	0