Aishah A Jalil

List of Publications by Year
in descending order

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254	9,897	38742 50	53230 85
papers	citations	h-index	g-index

258	258	258	7470
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	CO₂ methanation over heterogeneous catalysts: recent progress and future prospects. Green Chemistry, 2015, 17, 2647-2663.	9.0	576
2	A review on catalyst development for dry reforming of methane to syngas: Recent advances. Renewable and Sustainable Energy Reviews, 2019, 108, 175-193.	16.4	450
3	Highly active Ni-promoted mesostructured silica nanoparticles for CO2 methanation. Applied Catalysis B: Environmental, 2014, 147, 359-368.	20.2	404
4	A review on exploration of Fe2O3 photocatalyst towards degradation of dyes and organic contaminants. Journal of Environmental Management, 2020, 258, 110050.	7.8	284
5	Adsorption of methyl orange from aqueous solution onto calcined Lapindo volcanic mud. Journal of Hazardous Materials, 2010, 181, 755-762.	12.4	223
6	Modified oil palm leaves adsorbent with enhanced hydrophobicity for crude oil removal. Chemical Engineering Journal, 2012, 203, 9-18.	12.7	172
7	Recent advances and future prospect in catalysts for oxidative coupling of methane to ethylene: A review. Journal of Industrial and Engineering Chemistry, 2018, 59, 218-229.	5.8	172
8	Surface modification of activated carbon for adsorption of SO2 and NOX: A review of existing and emerging technologies. Renewable and Sustainable Energy Reviews, 2018, 94, 1067-1085.	16.4	159
9	Renewable hydrogen production from bio-oil derivative via catalytic steam reforming: An overview. Renewable and Sustainable Energy Reviews, 2017, 79, 347-357.	16.4	156
10	A critical review on relationship of CeO2-based photocatalyst towards mechanistic degradation of organic pollutant. Chemosphere, 2022, 286, 131651.	8.2	147
11	CO2 methanation over Ni-promoted mesostructured silica nanoparticles: Influence of Ni loading and water vapor on activity and response surface methodology studies. Chemical Engineering Journal, 2015, 260, 757-764.	12.7	141
12	Oxygen vacancy-rich mesoporous silica KCC-1 for CO 2 methanation. Applied Catalysis A: General, 2017, 532, 86-94.	4.3	134
13	Amino modified mesostructured silica nanoparticles for efficient adsorption of methylene blue. Journal of Colloid and Interface Science, 2012, 386, 307-314.	9.4	130
14	Methanation of carbon dioxide on metal-promoted mesostructured silica nanoparticles. Applied Catalysis A: General, 2014, 486, 115-122.	4.3	125
15	Understanding the role of surface basic sites of catalysts in CO₂ activation in dry reforming of methane: a short review. Catalysis Science and Technology, 2020, 10, 35-45.	4.1	118
16	Cost-effective microwave rapid synthesis of zeolite NaA for removal of methylene blue. Chemical Engineering Journal, 2013, 229, 388-398.	12.7	116
17	Utilization of bivalve shell-treated Zea mays L. (maize) husk leaf as a low-cost biosorbent for enhanced adsorption of malachite green. Bioresource Technology, 2012, 120, 218-224.	9.6	112
18	CO 2 reforming of CH 4 over Niâ€“Co/MSN for syngas production: Role of Co as a binder and optimization using RSM. Chemical Engineering Journal, 2016, 295, 1-10.	12.7	99

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19	Photodecolorization of methyl orange over Î±-Fe2O3-supported HY catalysts: The effects of catalyst preparation and dealumination. Chemical Engineering Journal, 2012, 191, 112-122.	12.7	93
20	Role of 3-aminopropyltriethoxysilane in the preparation of mesoporous silica nanoparticles for ibuprofen delivery: Effect on physicochemical properties. Microporous and Mesoporous Materials, 2013, 180, 235-241.	4.4	91
21	Recent advances in catalytic systems for CO2 conversion to substitute natural gas (SNG): Perspective and challenges. Journal of Energy Chemistry, 2021, 62, 377-407.	12.9	91
22	A review of heterogeneous catalysts for syngas production via dry reforming. Journal of the Taiwan Institute of Chemical Engineers, 2019, 101, 139-158.	5.3	87
23	Direct in situ activation of Ag0 nanoparticles in synthesis of Ag/TiO2 and its photoactivity. Applied Surface Science, 2015, 338, 75-84.	6.1	85
24	Biofuels and renewable chemicals production by catalytic pyrolysis of cellulose: a review. Environmental Chemistry Letters, 2020, 18, 1625-1648.	16.2	84
25	Electrochemical strategy for grown ZnO nanoparticles deposited onto HY zeolite with enhanced photodecolorization of methylene blue: Effect of the formation of SiOZn bonds. Applied Catalysis A: General, 2013, 456, 144-158.	4.3	83
26	Isomorphous substitution of Zr in the framework of aluminosilicate HY by an electrochemical method: Evaluation by methylene blue decolorization. Applied Catalysis B: Environmental, 2012, 125, 311-323.	20.2	81
27	Improved production of fuel oxygenates via glycerol acetylation with acetic acid. Chemical Engineering Journal, 2014, 243, 473-484.	12.7	78
28	Green synthesis of ZrO2 nanoparticles and nanocomposites for biomedical and environmental applications: a review. Environmental Chemistry Letters, 2022, 20, 1309-1331.	16.2	77
29	One-pot electro-synthesis of ZrO2â€“ZnO/HY nanocomposite for photocatalytic decolorization of various dye-contaminants. Chemical Engineering Journal, 2013, 225, 254-265.	12.7	75
30	Synthesis and characterization of fibrous silica ZSM-5 for cumene hydrocracking. Catalysis Science and Technology, 2016, 6, 5178-5182.	4.1	72
31	Sequential desilicationâ€“isomorphous substitution route to prepare mesostructured silica nanoparticles loaded with ZnO and their photocatalytic activity. Applied Catalysis A: General, 2013, 468, 276-287.	4.3	69
32	Production of hydrogen via steam reforming of acetic acid over Ni and Co supported on La 2 O 3 catalyst. International Journal of Hydrogen Energy, 2017, 42, 8975-8985.	7.1	68
33	Directing the amount of CNTs in CuOâ€“CNT catalysts for enhanced adsorption-oriented visible-light-responsive photodegradation of p-chloroaniline. Powder Technology, 2018, 327, 170-178.	4.2	68
34	Strategies for introducing titania onto mesostructured silica nanoparticles targeting enhanced photocatalytic activity of visible-light-responsive Ti-MSN catalysts. Journal of Cleaner Production, 2017, 143, 948-959.	9.3	66
35	Hydrogen spillover behavior of Zn/HZSM-5 showing catalytically active protonic acid sites in the isomerization of n-pentane. Applied Catalysis A: General, 2011, 407, 91-99.	4.3	61
36	Tailoring the properties of electrolyzed Ni/mesostructured silica nanoparticles (MSN) via different Ni-loading methods for CO2 reforming of CH4. Journal of CO2 Utilization, 2016, 13, 71-80.	6.8	61

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37	Controllable structure of fibrous SiO2â€“ZSM-5 support decorated with TiO2 catalysts for enhanced photodegradation of paracetamol. Applied Surface Science, 2018, 455, 84-95.	6.1	61
38	Robust Ni/Dendritic fibrous SBA-15 (Ni/DFSBA-15) for methane dry reforming: Effect of Ni loadings. Applied Catalysis A: General, 2019, 584, 117174.	4.3	60
39	Fibrous silica mesoporous ZSM-5 for carbon monoxide methanation. Applied Catalysis A: General, 2016, 523, 200-208.	4.3	59
40	n-Heptane isomerization over molybdenum supported on bicontinuous concentric lamellar silica KCC-1: Influence of phosphorus and optimization using response surface methodology (RSM). Chemical Engineering Journal, 2017, 314, 650-659.	12.7	59
41	Recovery of gold(III) from an aqueous solution onto a durio zibethinus husk. Biochemical Engineering Journal, 2011, 54, 124-131.	3.6	58
42	Variation of the crystal growth of mesoporous silica nanoparticles and the evaluation to ibuprofen loading and release. Journal of Colloid and Interface Science, 2014, 421, 6-13.	9.4	56
43	New insight into self-modified surfaces with defect-rich rutile TiO2 as a visible-light-driven photocatalyst. Journal of Cleaner Production, 2017, 168, 1150-1162.	9.3	55
44	Synergistic interactions of Cu and N on surface altered amorphous TiO₂ nanoparticles for enhanced photocatalytic oxidative desulfurization of dibenzothiophene. RSC Advances, 2016, 6, 76259-76268.	3.6	54
45	Altering fiber density of cockscomb-like fibrous silicaâ€“titania catalysts for enhanced photodegradation of ibuprofen. Journal of Environmental Management, 2018, 227, 34-43.	7.8	54
46	Tailoring the Properties of Metal Oxide Loaded/KCC-1 toward a Different Mechanism of CO2 Methanation by in Situ IR and ESR. Inorganic Chemistry, 2018, 57, 5859-5869.	4.0	54
47	Tailored mesoporosity and acidity of shape-selective fibrous silica beta zeolite for enhanced toluene co-reaction with methanol. Chemical Engineering Science, 2019, 193, 217-229.	3.8	54
48	Insight into the influence of rare-earth promoter (CeO2, La2O3, Y2O3, and Sm2O3) addition toward methane dry reforming over Co/mesoporous alumina catalysts. Chemical Engineering Science, 2020, 228, 115967.	3.8	53
49	WO3 monolayer loaded on ZrO2: Propertyâ€“activity relationship in n-butane isomerization evidenced by hydrogen adsorption and IR studies. Applied Catalysis A: General, 2012, 433-434, 49-57.	4.3	52
50	Tailoring the current density to enhance photocatalytic activity of CuO/HY for decolorization of malachite green. Journal of Electroanalytical Chemistry, 2013, 701, 50-58.	3.8	52
51	C5â€“C7 linear alkane hydroisomerization over MoO3â€“ZrO2 and Pt/MoO3â€“ZrO2 catalysts. Journal of Catalysis, 2013, 303, 50-59.	6.2	52
52	New insights on the effect of the H2/CO ratio for enhancement of CO methanation over metal-free fibrous silica ZSM-5: Thermodynamic and mechanistic studies. Energy Conversion and Management, 2019, 199, 112056.	9.2	52
53	Tuning of the electronic band structure of fibrous silica titania with g-C3N4 for efficient Z-scheme photocatalytic activity. Applied Surface Science, 2020, 512, 145744.	6.1	52
54	Visible-light photoactivity of plasmonic silver supported on mesoporous TiO2 nanoparticles (Ag-MTN) for enhanced degradation of 2-chlorophenol: Limitation of Ag-Ti interaction. Applied Surface Science, 2017, 392, 1068-1077.	6.1	51

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55	Dry reforming of methane to hydrogen-rich syngas over robust fibrous KCC-1 stabilized nickel catalyst with high activity and coke resistance. International Journal of Hydrogen Energy, 2020, 45, 18549-18561.	7.1	51
56	Membrane-Based Electrolysis for Hydrogen Production: A Review. Membranes, 2021, 11, 810.	3.0	51
57	Interaction between copper and carbon nanotubes triggers their mutual role in the enhanced photodegradation of p-chloroaniline. Physical Chemistry Chemical Physics, 2016, 18, 12323-12331.	2.8	50
58	Ni/Fibrous type SBA-15: Highly active and coke resistant catalyst for CO2 methanation. Chemical Engineering Science, 2021, 229, 116141.	3.8	50
59	Facile synthesis of ethyl 2-arylpropenoates by cross-coupling reaction using electrogenerated highly reactive zinc. Tetrahedron, 2002, 58, 7477-7484.	1.9	48
60	Ir/Pt-HZSM5 for n-pentane isomerization: Effect of iridium loading on the properties and catalytic activity. Journal of Catalysis, 2012, 294, 128-135.	6.2	48
61	Modified PVA-alginate encapsulated photocatalyst ferro photo gels for Cr(VI) reduction. Journal of Hazardous Materials, 2012, 227-228, 309-316.	12.4	47
62	Ir/Pt-HZSM5 for n-pentane isomerization: Effect of Si/Al ratio and reaction optimization by response surface methodology. Chemical Engineering Journal, 2013, 217, 300-309.	12.7	47
63	Synthesis of reverse micelle Î±-FeOOH nanoparticles in ionic liquid as an only electrolyte: Inhibition of electronâ€“hole pair recombination for efficient photoactivity. Applied Catalysis A: General, 2014, 469, 33-44.	4.3	47
64	Mesoporous ZSM5 having both intrinsic acidic and basic sites for cracking and methanation. Chemical Engineering Journal, 2015, 270, 196-204.	12.7	47
65	Dry reforming of CH over stabilized Ni-La@KCC-1 catalyst: Effects of La promoter and optimization studies using RSM. Journal of CO2 Utilization, 2020, 37, 230-239.	6.8	46
66	Tailoring the metal introduction sequence onto mesostructured silica nanoparticles framework: Effect on physicochemical properties and photoactivity. Applied Catalysis A: General, 2015, 492, 169-176.	4.3	45
67	New insight into electrochemical-induced synthesis of NiAl2O4/Al2O3: Synergistic effect of surface hydroxyl groups and magnetism for enhanced adsorptivity of Pd(II). Applied Surface Science, 2015, 349, 485-495.	6.1	45
68	New insights into self-modification of mesoporous titania nanoparticles for enhanced photoactivity: effect of microwave power density on formation of oxygen vacancies and Ti³⁺ defects. RSC Advances, 2015, 5, 90991-91000.	3.6	45
69	n-Heptane isomerization over mesostructured silica nanoparticles (MSN): Dissociative-adsorption of molecular hydrogen on Pt and Mo sites. Applied Catalysis A: General, 2016, 516, 135-143.	4.3	45
70	Effect of carbon-interaction on structure-photoactivity of Cu doped amorphous TiO2 catalysts for visible-light-oriented oxidative desulphurization of dibenzothiophene. Fuel, 2018, 216, 407-417.	6.4	45
71	Complete electrochemical dechlorination of chlorobenzenes in the presence of various arene mediators. Journal of Hazardous Materials, 2010, 174, 581-585.	12.4	44
72	Catalytic systems for enhanced carbon dioxide reforming of methane: a review. Environmental Chemistry Letters, 2021, 19, 2157-2183.	16.2	44

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73	CO₂ reforming of CH₄ over Ni/mesostructured silica nanoparticles (Ni/MSN). RSC Advances, 2015, 5, 37405-37414.	3.6	43
74	Influence of multi-walled carbon nanotubes on textural and adsorption characteristics of in situ synthesized mesostructured silica. Journal of Colloid and Interface Science, 2014, 421, 93-102.	9.4	42
75	Structural rearrangement of mesostructured silica nanoparticles incorporated with ZnO catalyst and its photoactivity: Effect of alkaline aqueous electrolyte concentration. Applied Surface Science, 2015, 330, 10-19.	6.1	42
76	Fibrous spherical Niâ€M/ZSMâ€5 (M: Mg, Ca, Ta, Ga) catalysts for methane dry reforming: The interplay between surface acidityâ€basicity and coking resistance. International Journal of Energy Research, 2020, 44, 5696-5712.	4.5	42
77	A review on self-modification of zirconium dioxide nanocatalysts with enhanced visible-light-driven photodegradation of organic pollutants. Journal of Hazardous Materials, 2022, 423, 126996.	12.4	41
78	Study of Hydrogen Adsorption on Pt/WO3-ZrO2 through Pt Sites. Journal of Natural Gas Chemistry, 2007, 16, 252-257.	1.8	40
79	Influence of impregnation assisted methods of Ni/SBA-15 for production of hydrogen via dry reforming of methane. International Journal of Hydrogen Energy, 2020, 45, 18426-18439.	7.1	40
80	Enhanced dry reforming of methane over mesostructured fibrous Ni/MFI zeolite: Influence of preparation methods. Journal of the Energy Institute, 2020, 93, 1535-1543.	5.3	40
81	Microplastics and nanoplastics: Recent literature studies and patents on their removal from aqueous environment. Science of the Total Environment, 2022, 810, 152115.	8.0	40
82	Protonation of Al-grafted mesostructured silica nanoparticles (MSN): Acidity and catalytic activity for cumene conversion. Chemical Engineering Journal, 2014, 240, 352-361.	12.7	39
83	Promising hydrothermal technique for efficient CO2 methanation over Ni/SBA-15. International Journal of Hydrogen Energy, 2019, 44, 20792-20804.	7.1	39
84	Role of reduced graphene oxide in improving interfacial charge transfer of hybridized rGO/silica/zirconia for enhanced Bisphenol A photodegradation. Journal of Alloys and Compounds, 2019, 789, 221-230.	5.5	39
85	A review on biohydrogen production through photo-fermentation of lignocellulosic biomass. Biomass Conversion and Biorefinery, 2023, 13, 8465-8483.	4.6	39
86	Invasive plants as biosorbents for environmental remediation: a review. Environmental Chemistry Letters, 2022, 20, 1421-1451.	16.2	39
87	Exploiting copperâ€“silicaâ€“zirconia cooperative interactions for the stabilization of tetragonal zirconia catalysts and enhancement of the visible-light photodegradation of bisphenol A. Journal of the Taiwan Institute of Chemical Engineers, 2018, 82, 322-330.	5.3	38
88	Enhanced reactive CO2 species formation via V2O5-promoted Ni/KCC-1 for low temperature activation of CO2 methanation. Reaction Chemistry and Engineering, 2019, 4, 1126-1135.	3.7	38
89	IR study of iridium bonded to perturbed silanol groups of Pt-HZSM5 for n-pentane isomerization. Applied Catalysis A: General, 2012, 417-418, 190-199.	4.3	37
90	Generation of protonic acid sites from pentane on the surfaces of Pt/SO42â^'-ZrO2 and Zn/H-ZSM5 evidenced by IR study of adsorbed pyridine. Applied Catalysis A: General, 2010, 372, 90-93.	4.3	36

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91	Enhanced visible-light driven multi-photoredox Cr(VI) and p-cresol by Si and Zr interplay in fibrous silica-zirconia. Journal of Hazardous Materials, 2021, 401, 123277.	12.4	36
92	Interaction of Zn2+ with extraframework aluminum in HBEA zeolite and its role in enhancing n-pentane isomerization. Applied Catalysis A: General, 2012, 431-432, 104-112.	4.3	35
93	Nickel-promoted mesoporous ZSM5 for carbon monoxide methanation. RSC Advances, 2015, 5, 64651-64660.	3.6	34
94	Optimal Ni loading towards efficient CH4 production from H2 and CO2 over Ni supported onto fibrous SBA-15. International Journal of Hydrogen Energy, 2019, 44, 7228-7240.	7.1	34
95	Conversion of polyethylene terephthalate plastic waste and phenol steam reforming to hydrogen and valuable liquid fuel: Synthesis effect of Niâ€“Co/ZrO2 nanostructured catalysts. International Journal of Hydrogen Energy, 2020, 45, 6302-6317.	7.1	34
96	Elucidation of acid strength effect on ibuprofen adsorption and release by aluminated mesoporous silica nanoparticles. RSC Advances, 2015, 5, 30023-30031.	3.6	33
97	A review on recent progression of photocatalytic desulphurization study over decorated photocatalysts. Journal of Industrial and Engineering Chemistry, 2019, 74, 172-186.	5.8	33
98	Fabrication and characterization of highly active fibrous silica-mordenite (FS@SiO2-MOR) cockscomb shaped catalyst for enhanced CO2 methanation. Chemical Engineering Science, 2020, 228, 115978.	3.8	33
99	Kinetics study of hydrogen adsorption over Pt/MoO3. Applied Catalysis A: General, 2010, 372, 103-107.	4.3	32
100	Superior sulfate radicals-induced visible-light-driven photodegradation of pharmaceuticals by appropriate Ce loading on fibrous silica ceria. Journal of Environmental Chemical Engineering, 2020, 8, 104484.	6.7	32
101	Thermodynamic equilibrium study of altering methane partial oxidation for Fischerâ€“Tropsch synfuel production. Energy, 2020, 198, 117394.	8.8	32
102	Green carbonaceous materialâ€’fibrous silica-titania composite photocatalysts for enhanced degradation of toxic 2-chlorophenol. Journal of Hazardous Materials, 2021, 414, 125524.	12.4	32
103	Complete electrochemical dechlorination of chlorobenzenes in the presence of naphthalene mediator. Journal of Hazardous Materials, 2007, 148, 1-5.	12.4	31
104	Process optimization of methylene blue adsorption onto eggshellâ€“treated palm oil fuel ash. Environmental Technology and Innovation, 2019, 13, 62-73.	6.1	31
105	Facile Synthesis of 2-Arylpropenoic Acid Esters by Cross-coupling Using Electrogenerated Highly Reactive Zinc and a Palladium Catalyst. Synlett, 2001, 2001, 1944-1946.	1.8	30
106	The unforeseen relationship of Fe2O3 and ZnO on fibrous silica KCC-1 catalyst for fabricated Z-scheme extractive-photooxidative desulphurization. Powder Technology, 2020, 375, 397-408.	4.2	30
107	Role of oxygen vacancies in dendritic fibrous M/KCC-1 (MÂ=ÂRu, Pd, Rh) catalysts for methane partial oxidation to H2-rich syngas production. Fuel, 2020, 278, 118360.	6.4	30
108	Catalytic biohydrogen production from organic waste materials: A literature review and bibliometric analysis. International Journal of Hydrogen Energy, 2021, 46, 30903-30925.	7.1	30

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109	Transesterification of croton megalocarpus oil to biodiesel over WO 3 supported on silica mesoporous-macroparticles catalyst. Chemical Engineering Journal, 2017, 316, 882-892.	12.7	29
110	Catalyzed Claisenâ€“Schmidt reaction by protonated aluminate mesoporous silica nanomaterial focused on the (E)-chalcone synthesis as a biologically active compound. RSC Advances, 2016, 6, 11023-11031.	3.6	28
111	Methane dry reforming over Ni/fibrous SBA-15 catalysts: Effects of support morphology (rod-liked) Tj ETQq1 1 0.784314 rgBT /Overlo	4.4	28
112	Synthesis of dual type Fe species supported mesostructured silica nanoparticles: synergistical effects in photocatalytic activity. RSC Advances, 2015, 5, 9727-9736.	3.6	27
113	Photodegradation of 2-chlorophenol over colloidal Î±-FeOOH supported mesostructured silica nanoparticles: Influence of a pore expander and reaction optimization. Separation and Purification Technology, 2015, 149, 55-64.	7.9	27
114	Additional Lewis acid sites of protonated fibrous silica@BEA zeolite (HSi@BEA) improving the generation of protonic acid sites in the isomerization of C6 alkane and cycloalkanes. Applied Catalysis A: General, 2019, 570, 228-237.	4.3	27
115	A review on synergistic coexisting pollutants for efficient photocatalytic reaction in wastewater remediation. Environmental Research, 2022, 209, 112748.	7.5	26
116	Tailoring Rh content on dendritic fibrous silica alumina catalyst for enhanced CO2 capture in catalytic CO2 methanation. Journal of Environmental Chemical Engineering, 2021, 9, 104616.	6.7	25
117	Unique structure of fibrous ZSM-5 catalyst expedited prolonged hydrogen atom restoration for selective production of propylene from methanol. International Journal of Hydrogen Energy, 2021, 46, 24652-24665.	7.1	25
118	Simultaneous remediation of hexavalent chromium and organic pollutants in wastewater using period 4 transition metal oxide-based photocatalysts: a review. Environmental Chemistry Letters, 2021, 19, 4489-4517.	16.2	25
119	The Effect of Sulfate Ion on the Isomerization of n-Butane to iso-Butane. Journal of Natural Gas Chemistry, 2006, 15, 247-252.	1.8	24
120	Synergistic effect of microwave rapid heating and weak mineralizer on silica-stabilized tetragonal zirconia nanoparticles for enhanced photoactivity of Bisphenol A. Journal of Molecular Liquids, 2018, 261, 423-430.	4.9	24
121	Recent advances in catalytic systems in the prism of physicochemical properties to remediate toxic CO pollutants: A state-of-the-art review. Chemosphere, 2021, 277, 130285.	8.2	24
122	IR study of active sites for n-heptane isomerization over MoO3-ZrO2. Applied Catalysis A: General, 2011, 406, 102-112.	4.3	23
123	Altering Dendrimer Structure of Fibrous-Silica-HZSM5 for Enhanced Product Selectivity of Benzene Methylation. Industrial & Engineering Chemistry Research, 2019, 58, 553-562.	3.7	23
124	Utilization of red mud waste into mesoporous ZSM-5 for methylene blue adsorption-desorption studies. Environmental Science and Pollution Research, 2021, 28, 37354-37370.	5.3	23
125	Selective Acetalization of Glycerol with Acetone Over Nickel Nanoparticles Supported on Multi-Walled Carbon Nanotubes. Catalysis Letters, 2014, 144, 1009-1015.	2.6	22
126	Isomerization of linear C5â€“C7 over Pt loaded on protonated fibrous silica@Y zeolite (Pt/HSi@Y). Journal of Energy Chemistry, 2019, 37, 163-171.	12.9	22

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127	Dendritic fibrous SBA-15 supported nickel (Ni/DFSBA-15): A sustainable catalyst for hydrogen production. International Journal of Hydrogen Energy, 2020, 45, 18533-18548.	7.1	22
128	Tailoring the Silica Amount in Stabilizing the Tetragonal Phase of Zirconia for Enhanced Photodegradation of 2-Chlorophenol. Topics in Catalysis, 2020, 63, 1145-1156.	2.8	22
129	Favored hydrogenation of linear carbon monoxide over cobalt loaded on fibrous silica KCC-1. International Journal of Hydrogen Energy, 2020, 45, 9522-9534.	7.1	22
130	Formation of acidic BrÃ¶nsted (MoOx)â˜'(Hy)+ evidenced by XRD and 2,6-lutidine FTIR spectroscopy for cumene cracking. Applied Catalysis A: General, 2013, 459, 8-16.	4.3	21
131	A highly competitive system for CO methanation over an active metal-free fibrous silica mordenite via in-situ ESR and FTIR studies. Energy Conversion and Management, 2020, 211, 112754.	9.2	21
132	Thermodynamic and experimental explorations of CO2 methanation over highly active metal-free fibrous silica-beta zeolite (FS@SiO2-BEA) of innovative morphology. Chemical Engineering Science, 2021, 229, 116015.	3.8	21
133	Simultaneous photocatalytic reduction of hexavalent chromium and oxidation of p-cresol over AgO decorated on fibrous silica zirconia. Environmental Pollution, 2021, 285, 117490.	7.5	21
134	A state of the art overview of carbon-based composites applications for detecting and eliminating pharmaceuticals containing wastewater. Chemosphere, 2022, 288, 132535.	8.2	21
135	An intriguing Z-scheme titania loaded on fibrous silica ceria for accelerated visible-light-driven photocatalytic degradation of ciprofloxacin. Environmental Research, 2022, 211, 113069.	7.5	21
136	Utilization of a cost effective Lapindo mud catalyst derived from eruption waste for transesterification of waste oils. Energy Conversion and Management, 2016, 108, 411-421.	9.2	20
137	Elucidation of cobalt disturbance on Ni/Al2O3 in dissociating hydrogen towards improved CO2 methanation and optimization by response surface methodology (RSM). International Journal of Hydrogen Energy, 2020, 45, 18562-18573.	7.1	20
138	Uniform rod and spherical nanocrystalline celluloses from hydrolysis of industrial pepper waste (Piper nigrum L.) using organic acid and inorganic acid. International Journal of Biological Macromolecules, 2022, 204, 593-605.	7.5	20
139	Negative effect of Ni on PtHY in n-pentane isomerization evidenced by IR and ESR studies. Journal of Natural Gas Chemistry, 2012, 21, 29-36.	1.8	19
140	Pellet size dependent steam reforming of polyethylene terephthalate waste for hydrogen production over Ni/La promoted Al2O3 catalyst. International Journal of Hydrogen Energy, 2017, 42, 21571-21585.	7.1	19
141	Fabrication of Fibrous Silica Zinc (FSZn) Composite for Enhanced Photocatalytic Desulphurization. Topics in Catalysis, 2020, 63, 1169-1181.	2.8	19
142	Zeolite and clay based catalysts for CO2 reforming of methane to syngas: A review. International Journal of Hydrogen Energy, 2022, 47, 30759-30787.	7.1	19
143	Study of the interaction between hydrogen and the MoO3â€"ZrO2 catalyst. Applied Catalysis A: General, 2012, 413-414, 176-182.	4.3	18
144	CO2 reforming of methane over Ta-promoted Ni/ZSM-5 fibre-like catalyst: Insights on deactivation behavior and optimization using response surface methodology (RSM). Chemical Engineering Science, 2021, 231, 116320.	3.8	18

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145	Enhanced CO₂methanation at mild temperature on Ni/zeolite from kaolin: effect of metalâ€“support interface. RSC Advances, 2021, 11, 16376-16387.	3.6	18
146	A review on recent bimetallic catalyst development for synthetic natural gas production via CO methanation. International Journal of Hydrogen Energy, 2022, 47, 30981-31002.	7.1	18
147	Acid-vacuo heat treated low cost banana stems fiber for efficient biosorption of Hg(<scp>ii</scp>). RSC Advances, 2015, 5, 14129-14137.	3.6	17
148	Niâ€“Pt/Al nano-sized catalyst supported on TNPs for hydrogen and valuable fuel production from the steam reforming of plastic waste dissolved in phenol. International Journal of Hydrogen Energy, 2020, 45, 22817-22832.	7.1	17
149	Effect of Ni-Ta ratio on the catalytic selectivity of fibrous Ni-Ta/ZSM-5 for dry reforming of methane. Chemical Engineering Science, 2020, 227, 115952.	3.8	17
150	Enhanced carbon resistance and regenerability in methane partial oxidation to syngas using oxygen vacancy-rich fibrous Pd, Ru and Rh/KCC-1 catalysts. Environmental Chemistry Letters, 2021, 19, 2733-2742.	16.2	17
151	Recent advances on nanocellulose biomaterials for environmental health photoremediation: An overview. Environmental Research, 2022, 204, 111964.	7.5	17
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