Wenfeng Han

List of Publications by Year
in descending order

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84	1,517	331259	414034
papers	citations	21 h-index	32 g-index

84	84	84	1368
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	One-Pot Cascade Catalysis of Dehydrochlorination of Greenhouse Gas HCFC-142b and Hydrochlorination of Acetylene for the Spontaneous Production of VDF and VCM. ACS ES&T Engineering, 2022, 2, 121-128.	3.7	1
2	Under-coordinated AlF3 clusters confined in carbon matrix with robust sintering resistance for dehydrofluorination of hydrofluorocarbons. Chemical Engineering Journal, 2022, 431, 134178.	6.6	7
3	The reaction mechanism of acetylene hydrochlorination on defective carbon supported ruthenium catalysts identified by DFT calculations and experimental approaches. Inorganic Chemistry Frontiers, 2022, 9, 458-467.	3.0	5
4	Palladium Nanoparticles Inset into the Carbon Sphere with Robust Acid Resistance for Selective Hydrogenation of Chloronitrobenzene. Industrial & Engineering Chemistry Research, 2022, 61, 4310-4319.	1.8	13
5	Predominant Catalytic Performance of Nickel Nanoparticles Embedded into Nitrogen-Doped Carbon Quantum Dot-Based Nanosheets for the Nitroreduction of Halogenated Nitrobenzene. ACS Sustainable Chemistry and Engineering, 2022, 10, 8162-8171.	3.2	20
6	Catalytic Performance for the Conversion of Potent Fluorinated Greenhouse Gases by Aluminium Fluorides with Different Morphology. Catalysis Letters, 2021, 151, 2065-2074.	1.4	4
7	Confined aluminum fluoride layers derived from the in situ etching of Ti3AlC2 as the robust catalyst for dehydrofluorination reaction. Applied Surface Science, 2021, 538, 148022.	3.1	9
8	Catalytic activity of Ru supported on SmCeOx for ammonia decomposition: The effect of Sm doping. Journal of Solid State Chemistry, 2021, 295, 121946.	1.4	13
9	Coordinatively unsaturated aluminum anchored Ru cluster for catalytic hydrogenation of benzene. Journal of Catalysis, 2021, 400, 255-264.	3.1	11
10	Synthesis of titanium oxyfluoride with oxygen vacancy as novel catalysts for pyrolysis of fluorinated greenhouse gasses to hydrofluoroolefins. Journal of the Taiwan Institute of Chemical Engineers, 2021, 129, 189-189.	2.7	5
11	BaF(p-BDC)0.5 as the Catalyst Precursor for the Catalytic Dehydrochlorination of 1-Chloro-1,1-Difluoroethane to Vinylidene Fluoride. Catalysts, 2021, 11, 1268.	1.6	0
12	Role of surface defects of carbon nanotubes on catalytic performance of barium promoted ruthenium catalyst for ammonia synthesis. Journal of Energy Chemistry, 2020, 41, 79-86.	7.1	39
13	PVDF mediated fabrication of freestanding AlF3 sub-microspheres: Facile and controllable synthesis of Î±, Î² and Î¸-AlF3. Materials Chemistry and Physics, 2020, 240, 122287.	2.0	8
14	Development and application of wÃ¼stite-based ammonia synthesis catalysts. Catalysis Today, 2020, 355, 110-127.	2.2	14
15	Solution Combustion Synthesis of Fe2O3-Based Catalyst for Ammonia Synthesis. Catalysts, 2020, 10, 1027.	1.6	9
16	Pâ€doped Carbon as the Efficient Support of Nickel Catalysts for Hydrodechlorination of Chlorodifluoromethane. ChemistrySelect, 2020, 5, 13290-13294.	0.7	1
17	Carbon-supported ruthenium catalysts prepared by a coordination strategy for acetylene hydrochlorination. Chinese Journal of Catalysis, 2020, 41, 1683-1691.	6.9	19
18	Thermally conductive SiC as support of aluminum fluoride for the catalytic dehydrofluorination reaction. Catalysis Communications, 2020, 142, 106033.	1.6	6

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19	Single-Site Au/Carbon Catalysts with Single-Atom and Au Nanoparticles for Acetylene Hydrochlorination. ACS Applied Nano Materials, 2020, 3, 3004-3010.	2.4	15
20	Facile Preparation of BaClxFy for the Catalytic Dehydrochlorination of 1-Chloro-1,1-Difluoroethane to Vinylidene Fluoride. Catalysts, 2020, 10, 377.	1.6	4
21	Confinement of AlF3 in MOF derived structures for the formation of 4-fold coordinated Al and significantly improved dehydrofluorination activity. Chemical Engineering Journal, 2020, 394, 124946.	6.6	15
22	Selectivity Dependence of 1,1-Difluoro-1-Chloroethane Dehydrohalogenation on the Metalâ€“Support Interaction over SrF2 Catalyst. Catalysts, 2020, 10, 355.	1.6	3
23	Rational design of MgF₂ catalysts with long-term stability for the dehydrofluorination of 1,1-difluoroethane (HFC-152a). RSC Advances, 2019, 9, 23744-23751.	1.7	6
24	Quasi metal organic framework with highly concentrated Cr2O3 molecular clusters as the efficient catalyst for dehydrofluorination of 1,1,1,3,3-pentafluoropropane. Applied Catalysis B: Environmental, 2019, 257, 117939.	10.8	28
25	Effect of nitrogen co-doping with ruthenium on the catalytic performance of Ba/Ruâ€“N-MC catalysts for ammonia synthesis. RSC Advances, 2019, 9, 22045-22052.	1.7	10
26	Microwave assisted combustion of phytic acid for the preparation of Ni₂P@C as a robust catalyst for hydrodechlorination. Chemical Communications, 2019, 55, 9279-9282.	2.2	22
27	Experimental and DFT Mechanistic Study of Dehydrohalogenation of 1-Chloro-1,1-difluoroethane over Metal Fluorides. Industrial & Engineering Chemistry Research, 2019, 58, 18149-18159.	1.8	10
28	The origin of the extraordinary stability of mercury catalysts on the carbon support: the synergy effects between oxygen groups and defects revealed from a combined experimental and DFT study. Chinese Journal of Catalysis, 2019, 40, 141-146.	6.9	23
29	Solution Combustion Synthesis of Cr2O3 Nanoparticles and the Catalytic Performance for Dehydrofluorination of 1,1,1,3,3-Pentafluoropropane to 1,3,3,3-Tetrafluoropropene. Molecules, 2019, 24, 361.	1.7	18
30	Defect-rich activated carbons as active and stable metal-free catalyst for acetylene hydrochlorination. Carbon, 2019, 146, 406-412.	5.4	78
31	Synergistic catalysis of carbon-partitioned LaF₃â€“BaF₂ composites for the coupling of CH₄ with CHF₃ to VDF. Catalysis Science and Technology, 2019, 9, 1338-1348.	2.1	10
32	Defective graphene@diamond hybrid nanocarbon material as an effective and stable metal-free catalyst for acetylene hydrochlorination. Chemical Communications, 2019, 55, 1430-1433.	2.2	41
33	EDTA-assisted hydrothermal synthesis of cubic SrF₂ particles and their catalytic performance for the pyrolysis of 1-chloro-1,1-difluoroethane to vinylidene fluoride. CrystEngComm, 2019, 21, 1691-1700.	1.3	12
34	Preparation and characterization of chromium-doped magnesium fluoride catalysts via an aqueous solâ€“gel method. Journal of Sol-Gel Science and Technology, 2019, 92, 200-207.	1.1	1
35	Decoration of Pd Nanoparticles with N and S Doped Carbon Quantum Dots as a Robust Catalyst for the Chemoselective Hydrogenation Reaction. ACS Sustainable Chemistry and Engineering, 2019, 7, 8542-8553.	3.2	64
36	Preparation of Iron Carbides Formed by Iron Oxalate Carburization for Fischerâ€“Tropsch Synthesis. Catalysts, 2019, 9, 347.	1.6	22

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37	La2Ce2O7 supported ruthenium as a robust catalyst for ammonia synthesis. Journal of Rare Earths, 2019, 37, 492-499.	2.5	29
38	Preparation and Catalytic Performance of Metal-Rich Pd Phosphides for the Solvent-Free Selective Hydrogenation of Chloronitrobenzene. Catalysts, 2019, 9, 177.	1.6	13
39	Preparation of N-doped ordered mesoporous carbon and catalytic performance for the pyrolysis of 1-chloro-1,1-difluoroethane to vinylidene fluoride. Microporous and Mesoporous Materials, 2019, 275, 200-206.	2.2	16
40	A highly stable and active mesoporous ruthenium catalyst for ammonia synthesis prepared by a RuCl3/SiO2-templated approach. Chinese Journal of Catalysis, 2019, 40, 114-123.	6.9	22
41	Î³-Fe2O3 as the precursor of iron based catalyst prepared by solid-state reaction at room temperature for Fischer-Tropsch to olefins. Applied Catalysis A: General, 2019, 572, 158-167.	2.2	13
42	CaBaFx composite as robust catalyst for the pyrolysis of 1-chloro-1,1-difluoroethane to vinylidene fluoride. Catalysis Communications, 2019, 120, 42-45.	1.6	11
43	Reverting fluoroform back to chlorodifluoromethane and dichlorofluoromethane: Intermolecular Cl/F exchange with chloroform at moderate temperatures. Chemical Engineering Journal, 2019, 355, 594-601.	6.6	19
44	Catalytic coupling of CH₄ with CHF₃ for the synthesis of VDF over LaOF catalyst. , 2018, 8, 587-602.		7
45	Direct synthesis of mesoporous nitrogen doped Ru-carbon catalysts with semi-embedded Ru nanoparticles for acetylene hydrochlorination. Microporous and Mesoporous Materials, 2018, 264, 248-253.	2.2	38
46	Preparation of Nâ€Doped Activated Carbon for Catalytic Pyrolysis of 1â€Chloroâ€1,1â€difluoroethane to Vinylidene Fluoride. ChemistrySelect, 2018, 3, 1015-1018.	0.7	12
47	Wheat flour-derived N-doped mesoporous carbon extrudate as superior metal-free catalysts for acetylene hydrochlorination. Chemical Communications, 2018, 54, 623-626.	2.2	50
48	One-step Synthesis of N-Doped Mesoporous Carbon as Highly Efficient Support of Pd Catalyst for Hydrodechlorination of 2,4-Dichlorophenol. Chemical Research in Chinese Universities, 2018, 34, 1004-1008.	1.3	3
49	Combustion Synthesis of Amorphous Al and Cr Composite as the Catalyst for Dehydrofluorination of 1,1-Difluoroethane. Industrial & Engineering Chemistry Research, 2018, 57, 12774-12783.	1.8	19
50	WÃ¼stite-based catalyst for ammonia synthesis: Structure, property and performance. Catalysis Today, 2017, 297, 276-291.	2.2	21
51	Morphological effect of fluorinated alumina on the Cl/F exchange reaction. Journal of Fluorine Chemistry, 2017, 202, 65-70.	0.9	6
52	Promotion of O₂ on the coâ€pyrolysis of CHF₃ and CH₄ for VDF synthesis. , 2017, 7, 891-902.		6
53	Sub-nano MgF₂ embedded in carbon nanofibers and electrospun MgF₂ nanofibers by one-step electrospinning as highly efficient catalysts for 1,1,1-trifluoroethane dehydrofluorination. Catalysis Science and Technology, 2017, 7, 6000-6012.	2.1	29
54	Strong Interaction of Ruthenium Species with Graphite Structure for the Self-Dispersion of Ru under Solvent-Free Conditions. ACS Sustainable Chemistry and Engineering, 2017, 5, 7195-7202.	3.2	10

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55	Solution combustion synthesis of nano-chromia as catalyst for the dehydrofluorination of 1,1-difluoroethane. Journal of Materials Science, 2016, 51, 11002-11013.	1.7	22
56	Hydrothermal synthesis of sulfur-resistant MoS2 catalyst for methanation reaction. Catalysis Communications, 2016, 84, 120-123.	1.6	14
57	Preparation of fluorinated Cr2O3 hexagonal prism and catalytic performance for the dehydrofluorination of 1,1-difluoroethane to vinyl fluoride. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	13
58	Promotion of Nb2O5 on the wustite-based iron catalyst for ammonia synthesis. Applied Surface Science, 2015, 353, 17-23.	3.1	21
59	Aqueous Ammonia (NH₃) Based Post Combustion CO₂Capture: A Review. Oil and Gas Science and Technology, 2014, 69, 931-945.	1.4	31
60	Pyrolysis of Trifluoromethane over Activated Carbon: Role of the Surface Oxygen Groups. Progress in Reaction Kinetics and Mechanism, 2014, 39, 38-52.	1.1	1
61	Catalytic hydrolysis of trifluoromethane over alumina. , 2014, 4, 121-130.		19
62	Preparation of efficient ruthenium catalysts for ammonia synthesis via high surface area graphite dispersion. Reaction Kinetics, Mechanisms and Catalysis, 2014, 113, 361-374.	0.8	5
63	Direct Synthesis of Rutheniumâ€Containing Ordered Mesoporous Carbon with Tunable Embedding Degrees by Using a Boric Acidâ€Assisted Approach. ChemCatChem, 2014, 6, 353-360.	1.8	31
64	Geometric effect of Ru/HSAG@mSiO₂: a catalyst for selective hydrogenation of cinnamaldehyde. RSC Advances, 2014, 4, 30180-30185.	1.7	17
65	Effect of the graphitic degree of carbon supports on the catalytic performance of ammonia synthesis over Ba-Ru-K/HSGC catalyst. Journal of Energy Chemistry, 2014, 23, 443-452.	7.1	21
66	Activation of a Carbon Support Through a Twoâ€Step Wet Oxidation and Highly Active Rutheniumâ€“Activated Carbon Catalysts for the Hydrogenation of Benzene. ChemCatChem, 2014, 6, 572-579.	1.8	24
67	Effect of Cr-doping on the acidity and pore structure of mesoporous magnesium fluoride. Chinese Journal of Catalysis, 2014, 34, 373-378.	6.9	0
68	Effect of pore structure of mesoporous carbon on its supported Ru catalysts for ammonia synthesis. Chinese Journal of Catalysis, 2013, 34, 1395-1401.	6.9	13
69	High thermal stability of ceria-based mixed oxide catalysts supported on ZrO2 for toluene combustion. Catalysis Science and Technology, 2013, 3, 1480.	2.1	28
70	CO₂ absorption by piperazine promoted aqueous ammonia solution: absorption kinetics and ammonia loss. , 2013, 3, 231-245.		28
71	Effect of Hydrothermal Treatment of Activated Carbon by Nitric Acid on Activ-ity of Ba-Ru-K/AC Catalyst for Ammonia Synthesis. Chinese Journal of Catalysis, 2013, 33, 1191-1197.	6.9	0
72	Treatment of the potent greenhouse gas, CHF3â€"An overview. Journal of Fluorine Chemistry, 2012, 140, 7-16.	0.9	79

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73	An efficient route for the preparation of activated carbon supported ruthenium catalysts with high performance for ammonia synthesis. Catalysis Today, 2011, 174, 97-105.	2.2	44
74	Mechanistic study of the reaction of CHF3 with CH4. Chemical Engineering Journal, 2011, 166, 822-831.	6.6	18
75	Catalytic pyrolysis of CHF3 over activated carbon and activated carbon supported potassium catalyst. Journal of Fluorine Chemistry, 2010, 131, 698-703.	0.9	16
76	Conversion of a CFCs, HFCs and HCFCs waste mixture via reaction with methane. Journal of Hazardous Materials, 2010, 184, 696-703.	6.5	7
77	Experimental and chemical kinetic study of the pyrolysis of trifluoroethane and the reaction of trifluoromethane with methane. Journal of Fluorine Chemistry, 2010, 131, 751-760.	0.9	38
78	Conversion of CHF3 to CH2CF2 via reaction with CH4 in the presence of CBrF3: An experimental and kinetic modelling study. Journal of Hazardous Materials, 2010, 180, 181-187.	6.5	19
79	Effect of Methanol on the Gas-Phase Reaction of Trifluoromethane with Methane. Industrial & Engineering Chemistry Research, 2010, 49, 8406-8414.	1.8	11
80	Synthesis of Vinylidene Fluoride via Reaction of Chlorodifluoromethane (HCFC-22) with Methane. Industrial & Engineering Chemistry Research, 2010, 49, 6010-6019.	1.8	5
81	Experimental and Kinetic Studies of Gas-phase Pyrolysis of n-C₄F₁₀. Industrial & Engineering Chemistry Research, 2008, 47, 2579-2584.	1.8	16
82	Conversion of CHF3to CH2î—»CF2via Reaction with CH4and CaBr2. Environmental Science & Technology, 2008, 42, 5795-5799.	4.6	23
83	Effect of activated carbon on the dispersion of Ru and K over supported Ru-based catalyst for ammonia synthesis. Catalysis Communications, 2007, 8, 351-354.	1.6	39
84	Influence of oxidation on heat-treated activated carbon support properties and metallic dispersion of Ru/C catalyst. Catalysis Letters, 2007, 115, 13-18.	1.4	24