

Danhua Mei

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,555
citations

567281

15
h-index

713466

21
g-index

31
all docs

31
docs citations

31
times ranked

1056
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasma-assisted conversion of CO ₂ in a dielectric barrier discharge reactor: understanding the effect of packing materials. <i>Plasma Sources Science and Technology</i> , 2015, 24, 015011.	3.1	235
2	Plasma-photocatalytic conversion of CO ₂ at low temperatures: Understanding the synergistic effect of plasma-catalysis. <i>Applied Catalysis B: Environmental</i> , 2016, 182, 525-532.	20.2	215
3	Steam reforming of toluene as biomass tar model compound in a gliding arc discharge reactor. <i>Chemical Engineering Journal</i> , 2017, 307, 793-802.	12.7	179
4	Conversion of CO ₂ in a cylindrical dielectric barrier discharge reactor: Effects of plasma processing parameters and reactor design. <i>Journal of CO₂ Utilization</i> , 2017, 19, 68-78.	6.8	134
5	Plasma-catalytic dry reforming of methane over γ -Al ₂ O ₃ supported metal catalysts. <i>Catalysis Today</i> , 2015, 256, 80-87.	4.4	131
6	Optimization of CO ₂ Conversion in a Cylindrical Dielectric Barrier Discharge Reactor Using Design of Experiments. <i>Plasma Processes and Polymers</i> , 2016, 13, 544-556.	3.0	104
7	Gliding arc plasma for CO ₂ conversion: Better insights by a combined experimental and modelling approach. <i>Chemical Engineering Journal</i> , 2017, 330, 11-25.	12.7	97
8	Investigation of hybrid plasma-catalytic removal of acetone over CuO/ γ -Al ₂ O ₃ catalysts using response surface method. <i>Chemosphere</i> , 2016, 155, 9-17.	8.2	85
9	Plasma-catalytic reforming of biogas over supported Ni catalysts in a dielectric barrier discharge reactor: Effect of catalyst supports. <i>Plasma Processes and Polymers</i> , 2017, 14, 1600076.	3.0	80
10	Plasma reforming of biomass gasification tars using mixed naphthalene and toluene as model compounds. <i>Energy Conversion and Management</i> , 2019, 195, 409-419.	9.2	61
11	Atmospheric Pressure Non-thermal Plasma Activation of CO ₂ in a Packed-Bed Dielectric Barrier Discharge Reactor. <i>ChemPhysChem</i> , 2017, 18, 3253-3259.	2.1	53
12	Enhanced reforming of mixed biomass tar model compounds using a hybrid gliding arc plasma catalytic process. <i>Catalysis Today</i> , 2019, 337, 225-233.	4.4	42
13	Sustainable plasma-catalytic bubbles for hydrogen peroxide synthesis. <i>Green Chemistry</i> , 2021, 23, 2977-2985.	9.0	42
14	Nonthermal plasma catalysis enhances simultaneous removal of toluene and ozone over TiO ₂ @ZIF-8. <i>Journal of Cleaner Production</i> , 2022, 332, 130107.	9.3	20
15	Plasma-enabled liquefaction of lignocellulosic biomass: Balancing feedstock content for maximum energy yield. <i>Renewable Energy</i> , 2020, 157, 1061-1071.	8.9	18
16	Highly efficient reforming of toluene to syngas in a gliding arc plasma reactor. <i>Journal of the Energy Institute</i> , 2021, 98, 131-143.	5.3	14
17	CO ₂ reforming of CH ₄ in single and double dielectric barrier discharge reactors: Comparison of discharge characteristics and product distribution. <i>Journal of CO₂ Utilization</i> , 2021, 53, 101703.	6.8	14
18	Plasma-Catalytic Reforming of Naphthalene and Toluene as Biomass Tar over Honeycomb Catalysts in a Gliding Arc Reactor. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 8958-8969.	6.7	13

#	ARTICLE	IF	CITATIONS
19	Influence of Water Cooling for Outer Electrode on the Discharge Characteristics of an Atmospheric Coaxial DBD Reactor. IEEE Transactions on Plasma Science, 2021, 49, 1173-1180.	1.3	7
20	Plasma reforming of toluene as a model tar compound from biomass gasification: effect of CO ₂ and steam. Waste Disposal & Sustainable Energy, 2019, 1, 133-141.	2.5	6
21	The Optimization of Plasma Catalytic Liquefaction Technique for the Conversion of Sawdust Into Value-Added Chemicals. IEEE Access, 2020, 8, 2621-2630.	4.2	3
22	Plasma-catalytic dry reforming of methane over Al ₂ O ₃ supported metal catalyts. , 2015, , .		1
23	Plasma-catalytic conversion of CO ₂ into value-added chemicals: Understanding the synergistic effect at low temperatures. , 2015, , .		1
24	Vision-based tomographic reconstruction of emissivity distribution in asymmetric thermal plasma. Europhysics Letters, 2013, 103, 35002.	2.0	0
25	Conversion of methane into hydrogen and C ₂ hydrocarbons in a dielectric barrier discharge reactor. , 2015, , .		0
26	Liquid discharge plasma for fast biomass liquefaction at mild conditions: The effects of homogeneous catalysts. Frontiers of Chemical Science and Engineering, 2020, 14, 763-771.	4.4	0
27	Plasma Gas Cleaning Process for the Conversion of Biomass Tar Model Compounds Into Syngas*. , 2017, , .		0
28	The Effect of Dielectric Materials on the Discharge Characteristics of a Coaxial Dielectric Barrier Discharge Driven by Nanosecond Power Supply. , 2018, , .		0
29	Interactions Among Jets in an Atmospheric Pressure Plasma Jet Array in Argon. , 2018, , .		0
30	Plasma-Enabled Fast Liquefaction of Lignocellulosic Biomass: Impact of Biomass Feedstocks. , 2020, , .		0
31	Efficient Conversion of CO ₂ and CH ₄ Into Value Added Compounds Through Plasma Catalysis Process in a Dielectric Barrier Discharge Reactor. , 2020, , .		0