

Mohamed E Mostafa

List of Publications by Year in descending order

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52
papers

2,278
citations

304743

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docs citations

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times ranked

2118
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetics, thermodynamics, and combustion characteristics of Poinciana pods using TG/DTG/DTA techniques. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 11583-11607.	4.6	10
2	Evolution of char structure during the pyrolysis of biomass pellet: Further understanding on the effects of chars two phases. <i>Fuel</i> , 2022, 312, 122994.	6.4	10
3	Analysis of ammonium bisulfate/sulfate generation and deposition characteristics as the by-product of SCR in coal-fired flue gas. <i>Fuel</i> , 2022, 313, 122790.	6.4	12
4	Effects of inorganic sodium on the combustion characteristics of Zhundong coal with fast-heating rate. <i>Fuel</i> , 2022, 319, 123801.	6.4	16
5	Effects of temperature and aspect ratio on heterogeneity of the biochar from pyrolysis of biomass pellet. <i>Fuel Processing Technology</i> , 2022, 235, 107366.	7.2	14
6	Effects of aspect ratio on char structure during the pyrolysis of sawdust pellet. <i>Fuel</i> , 2022, 325, 124850.	6.4	4
7	Evolution of Stable Free Radicals during Bio-Oil Pyrolysis and Its Relation to Coke Formation: An in Situ EPR Study. <i>Energy & Fuels</i> , 2022, 36, 7608-7616.	5.1	6
8	Insight into the catalytic performance and NH ₃ adsorption under high concentration of CO ₂ and/or H ₂ O conditions on selective catalytic reduction of NO by NH ₃ over V ₂ O ₅ -WO ₃ /TiO ₂ catalyst. <i>Fuel</i> , 2021, 286, 119478.	6.4	17
9	Developing micro-Raman spectroscopy for char structure characterization in the scale of micro- and bulk: A case study of Zhundong coal pyrolysis. <i>Fuel</i> , 2021, 291, 120168.	6.4	26
10	Mechanical Characteristics and Energy Consumption of Solid and Hollow Biomass Pellet Production Using a Statistical Analysis of Operating Parameters. <i>Waste and Biomass Valorization</i> , 2021, 12, 6635-6657.	3.4	5
11	Temporal and spatial evolution of biochar chemical structure during biomass pellet pyrolysis from the insights of micro-Raman spectroscopy. <i>Fuel Processing Technology</i> , 2021, 218, 106839.	7.2	34
12	Waste Tire Heat Treatment to Prepare Sulfur Self-Doped Char: Operando Insight into Activation Mechanisms Based on the Char Structures Evolution. <i>Processes</i> , 2021, 9, 1622.	2.8	1
13	Effects of Parent Coal Properties on the Pyrolytic Char Chemical Structure: Insights from Micro-Raman Spectroscopy Based on 32 Kinds of Chinese Coals. <i>Processes</i> , 2021, 9, 1575.	2.8	1
14	Experimental and DFT research on role of sodium in NO reduction on char surface under H ₂ O/Ar atmosphere. <i>Fuel</i> , 2021, 302, 121105.	6.4	13
15	Experimental and numerical modelling of solid and hollow biomass pellets high-temperature rapid oxy-steam combustion: The effect of integrated CO ₂ /H ₂ O concentration. <i>Fuel</i> , 2021, 303, 121249.	6.4	5
16	Raman Spectroscopy as a Versatile Tool for Investigating Thermochemical Processing of Coal, Biomass, and Wastes: Recent Advances and Future Perspectives. <i>Energy & Fuels</i> , 2021, 35, 2870-2913.	5.1	48
17	Combustion behavior of large size coal over a wide range of heating rates in a concentrating photothermal reactor. <i>Fuel Processing Technology</i> , 2020, 197, 106187.	7.2	8
18	Chemical imaging of coal in micro-scale with Raman mapping technology. <i>Fuel</i> , 2020, 264, 116826.	6.4	36

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19	Effect of temperature on multiple competitive processes for co-production of carbon nanotubes and hydrogen during catalytic reforming of toluene. <i>Fuel</i> , 2020, 264, 116749.	6.4	22
20	Evolution characteristics of different types of coke deposition during catalytic removal of biomass tar. <i>Journal of the Energy Institute</i> , 2020, 93, 2497-2504.	5.3	33
21	Study on the effects of steam on the precipitation characteristics of sodium during coal thermal conversion. <i>Journal of Fuel Chemistry and Technology</i> , 2020, 48, 769-775.	2.0	2
22	Raman spectroscopy of biochar from the pyrolysis of three typical Chinese biomasses: A novel method for rapidly evaluating the biochar property. <i>Energy</i> , 2020, 202, 117644.	8.8	81
23	Solidification and Leaching Behaviors of V and As in a Spent Catalyst-Containing Concrete. <i>Energy & Fuels</i> , 2020, 34, 7209-7217.	5.1	5
24	Thermal pyrolysis and kinetic parameter determination of mango leaves using common and new proposed parallel kinetic models. <i>RSC Advances</i> , 2020, 10, 18160-18179.	3.6	30
25	The fluorescence interference in Raman spectrum of raw coals and its application for evaluating coal property and combustion characteristics. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 3053-3060.	3.9	16
26	Investigating the effect of integrated CO ₂ and H ₂ O on the reactivity and kinetics of biomass pellets oxy-steam combustion using new double parallel volumetric model (DVM). <i>Energy</i> , 2019, 179, 343-357.	8.8	17
27	Formation and reduction of NO from the oxidation of NH ₃ /CH ₄ with high concentration of H ₂ O. <i>Fuel</i> , 2019, 247, 19-25.	6.4	18
28	The significance of pelletization operating conditions: An analysis of physical and mechanical characteristics as well as energy consumption of biomass pellets. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 105, 332-348.	16.4	102
29	Thermal decomposition and combustion characteristics of biomass materials using TG/DTG at different high heating rates and sizes in the air. <i>Environmental Progress and Sustainable Energy</i> , 2019, 38, 13124.	2.3	18
30	Effects of H ₂ O and CO ₂ on the catalytic oxidation property of V/W/Ti catalysts for SO ₃ generation. <i>Fuel</i> , 2019, 237, 545-554.	6.4	16
31	Combustion and Emission Characteristics of Egyptian Sugarcane Bagasse and Cotton Stalks Powders in a Bubbling Fluidized Bed Combustor. <i>Waste and Biomass Valorization</i> , 2019, 10, 2015-2035.	3.4	9
32	Steam reforming of acetic acid over Ni/Al ₂ O ₃ catalysts: Correlation of nickel loading with properties and catalytic behaviors of the catalysts. <i>Fuel</i> , 2018, 217, 389-403.	6.4	95
33	Carbon nanotubes formation and its influence on steam reforming of toluene over Ni/Al ₂ O ₃ catalysts: Roles of catalyst supports. <i>Fuel Processing Technology</i> , 2018, 176, 7-14.	7.2	68
34	Applications of nanofluids in solar energy: A review of recent advances. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 3483-3502.	16.4	356
35	Steam reforming of acetic acid over nickel-based catalysts: The intrinsic effects of nickel precursors on behaviors of nickel catalysts. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 538-553.	20.2	90
36	Effects of reaction conditions on the emission behaviors of arsenic, cadmium and lead during sewage sludge pyrolysis. <i>Bioresource Technology</i> , 2017, 236, 138-145.	9.6	68

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37	Thermo-physical and kinetics parameters determination and gases emissions of self-ignition of sieved rice husk of different sizes on a hot plate. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2017, 12, 536-550.	1.5	4
38	Co-production of hydrogen and carbon nanotubes from the decomposition/reforming of biomass-derived organics over Ni/Al ₂ O ₃ catalyst: Performance of different compounds. <i>Fuel</i> , 2017, 210, 307-314.	6.4	50
39	Functional Mechanism of Inorganic Sodium on the Structure and Reactivity of Zhundong Chars during Pyrolysis. <i>Energy & Fuels</i> , 2017, 31, 10812-10821.	5.1	16
40	Micro-Raman Spectroscopy Study of 32 Kinds of Chinese Coals: Second-Order Raman Spectrum and Its Correlations with Coal Properties. <i>Energy & Fuels</i> , 2017, 31, 7884-7893.	5.1	23
41	Effects of H ₂ O on NO Emission during Oxy-coal Combustion with Wet Recycle. <i>Energy & Fuels</i> , 2017, 31, 8392-8399.	5.1	19
42	Opposite effects of self-growth amorphous carbon and carbon nanotubes on the reforming of toluene with Ni/Al ₂ O ₃ for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 14439-14448.	7.1	58
43	Estimation of Thermal and Kinetic Parameters of Sugarcane Bagasse and Cotton Stalks Dust Layers from Hot Surface Ignition Tests. <i>Combustion Science and Technology</i> , 2016, 188, 1655-1673.	2.3	6
44	Effects of steam and CO ₂ on the characteristics of chars during devolatilization in oxy-steam combustion process. <i>Applied Energy</i> , 2016, 182, 20-28.	10.1	93
45	Effects of oxygen species from Fe addition on promoting steam reforming of toluene over Fe-Ni/Al ₂ O ₃ catalysts. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 17967-17975.	7.1	75
46	Effects of H ₂ O Gasification Reaction on the Characteristics of Chars under Oxy-Fuel Combustion Conditions with Wet Recycle. <i>Energy & Fuels</i> , 2016, 30, 9071-9079.	5.1	50
47	Kinetic Parameters Determination of Biomass Pyrolysis Fuels Using TGA and DTA Techniques. <i>Waste and Biomass Valorization</i> , 2015, 6, 401-415.	3.4	88
48	Effects of CO ₂ and heating rate on the characteristics of chars prepared in CO ₂ and N ₂ atmospheres. <i>Fuel</i> , 2015, 142, 243-249.	6.4	65
49	The activity and mechanism study of Fe-Mn-Ce/Al ₂ O ₃ catalyst for low temperature selective catalytic reduction of NO with NH ₃ . <i>Fuel</i> , 2015, 139, 232-239.	6.4	177
50	Pyrolysis characteristics and kinetic parameters determination of biomass fuel powders by differential thermal gravimetric analysis (TGA/DTG). <i>Energy Conversion and Management</i> , 2014, 85, 165-172.	9.2	225
51	Analysis of Grain Size Statistic and Particle Size Distribution of Biomass Powders. <i>Waste and Biomass Valorization</i> , 2014, 5, 1005-1018.	3.4	16
52	Optimization and statistical analysis of the effect of main operation conditions on the physical characteristics of solid and hollow cylindrical pellets. <i>Biomass Conversion and Biorefinery</i> , 0, , 1.	4.6	1