

Hongpeng Xu

List of Publications by Year in descending order

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24
papers

703
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567281

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all docs

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docs citations

24
times ranked

486
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a numerical model for co-combustion of the blended solid waste fuel in the grate boiler. <i>Chemical Engineering Journal</i> , 2021, 405, 126604.	12.7	12
2	Investigation on H ₂ /air combustion with C ₃ H ₈ addition in the combustor with part/full porous medium. <i>Energy Conversion and Management</i> , 2021, 228, 113652.	9.2	61
3	Effects of propane addition and burner scale on the combustion characteristics and working performance. <i>Applied Energy</i> , 2021, 285, 116484.	10.1	37
4	Development of a mechanistic fouling model for predicting deposit formation in a woodchip-fired grate boiler. <i>Energy</i> , 2021, 220, 119699.	8.8	11
5	Numerical study on the effective utilization of high sulfur petroleum coke for syngas production via chemical looping gasification. <i>Energy</i> , 2021, 235, 121395.	8.8	14
6	Investigation on premixed H ₂ /C ₃ H ₈ /air combustion in porous medium combustor for the micro thermophotovoltaic application. <i>Applied Energy</i> , 2020, 260, 114352.	10.1	69
7	Numerical investigation of biomass co-combustion with methane for NO _x reduction. <i>Energy</i> , 2020, 194, 116868.	8.8	26
8	CFD simulation of a fluidized bed reactor for biomass chemical looping gasification with continuous feedstock. <i>Energy Conversion and Management</i> , 2019, 201, 112143.	9.2	34
9	Experimental investigation on premixed hydrogen/air combustion in varied size combustors inserted with porous medium for thermophotovoltaic system applications. <i>Energy Conversion and Management</i> , 2019, 200, 112086.	9.2	52
10	Investigation of soot aggregate formation and oxidation in compression ignition engines with a pseudo bi-variate soot model. <i>Applied Energy</i> , 2019, 253, 113609.	10.1	10
11	Numerical investigation the effect of air supply on the biomass combustion in the grate boiler. <i>Energy Procedia</i> , 2019, 158, 272-277.	1.8	2
12	Predictive control of CO ₂ emissions from a grate boiler based on fuel nature structures using intelligent neural network and Box-Behnken design. <i>Energy Procedia</i> , 2019, 158, 364-369.	1.8	3
13	Numerical investigation of the effect of air supply and oxygen enrichment on the biomass combustion in the grate boiler. <i>Applied Thermal Engineering</i> , 2019, 156, 550-561.	6.0	34
14	Numerical study of HCN and NH ₃ reduction in a two-stage entrained flow gasifier by implementing MILD combustion. <i>Fuel</i> , 2019, 251, 482-495.	6.4	12
15	Integrated analysis of CFD simulation data with K-means clustering algorithm for soot formation under varied combustion conditions. <i>Applied Thermal Engineering</i> , 2019, 153, 299-305.	6.0	17
16	Numerical investigation and thermodynamic analysis of syngas production through chemical looping gasification using biomass as fuel. <i>Fuel</i> , 2019, 246, 466-475.	6.4	38
17	Combustion characteristics and thermal performance of premixed hydrogen-air in a two-rearward-step micro tube. <i>Applied Energy</i> , 2019, 242, 424-438.	10.1	79
18	Experimental and numerical investigation of a micro-thermophotovoltaic system with different backward-facing steps and wall thicknesses. <i>Energy</i> , 2019, 173, 540-547.	8.8	69

#	ARTICLE	IF	CITATIONS
19	Macroscopic fuel reactor modelling of a 5â€kWth interconnected fluidized bed for in-situ gasification chemical looping combustion of coal. <i>Chemical Engineering Journal</i> , 2018, 348, 978-991.	12.7	15
20	Effects analysis on combustion and thermal performance enhancement of a nozzle-inlet micro tube fueled by the premixed hydrogen/air. <i>Energy</i> , 2018, 160, 349-360.	8.8	40
21	Numerical Study of Biomass Grate Boiler with Coupled Time-Dependent Fuel Bed Model and Computational Fluid Dynamics Based Freeboard Model. <i>Energy & Fuels</i> , 2018, 32, 9493-9505.	5.1	19
22	Development of an optimization methodology for formulating both jet fuel and diesel fuel surrogates and their associated skeletal oxidation mechanisms. <i>Fuel</i> , 2018, 231, 361-372.	6.4	29
23	Development of a new jet fuel surrogate and its associated reaction mechanism coupled with a multistep soot model for diesel engine combustion. <i>Applied Energy</i> , 2018, 228, 42-56.	10.1	14
24	Simulation and investigation of periodic deflecting oscillation of gasâ€solid planar opposed jets. <i>Chemical Engineering and Processing: Process Intensification</i> , 2014, 76, 6-15.	3.6	6