

Hesammedin Fatehi

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

440
citations

758635

12
h-index

794141

19
g-index

23
all docs

23
docs citations

23
times ranked

401
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomass steam gasification in bubbling fluidized bed for higher-H ₂ syngas: CFD simulation with coarse grain model. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 6448-6460.	3.8	60
2	A Comprehensive Mathematical Model for Biomass Combustion. <i>Combustion Science and Technology</i> , 2014, 186, 574-593.	1.2	50
3	Structural evolution of biomass char and its effect on the gasification rate. <i>Applied Energy</i> , 2017, 185, 998-1006.	5.1	49
4	Recent Development in Numerical Simulations and Experimental Studies of Biomass Thermochemical Conversion. <i>Energy & Fuels</i> , 2021, 35, 6940-6963.	2.5	45
5	Modeling of alkali metal release during biomass pyrolysis. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 2243-2251.	2.4	44
6	Numerical simulation of ignition mode and ignition delay time of pulverized biomass particles. <i>Combustion and Flame</i> , 2019, 206, 400-410.	2.8	31
7	Numerical study of the combustion and application of SNCR for NO reduction in a lab-scale biomass boiler. <i>Fuel</i> , 2021, 293, 120154.	3.4	25
8	CFD modeling of biomass combustion and gasification in fluidized bed reactors using a distribution kernel method. <i>Combustion and Flame</i> , 2022, 236, 111744.	2.8	22
9	LES study of diesel flame/wall interaction and mixing mechanisms at different wall distances. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 5597-5604.	2.4	17
10	Effect of Pore Size on the Gasification of Biomass Char. <i>Energy Procedia</i> , 2015, 75, 779-785.	1.8	15
11	Numerical study on K/S/Cl release during devolatilization of pulverized biomass at high temperature. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 3909-3917.	2.4	15
12	Gas phase combustion in the vicinity of a biomass particle during devolatilization – Model development and experimental verification. <i>Combustion and Flame</i> , 2018, 196, 351-363.	2.8	14
13	Multi-region modeling of conversion of a thick biomass particle and the surrounding gas phase reactions. <i>Combustion and Flame</i> , 2022, 237, 111725.	2.8	12
14	Potassium Release from Biomass Particles during Combustion – Real-Time In Situ TDLAS Detection and Numerical Simulation. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8887.	1.3	10
15	Rotational CARS thermometry and concentration measurements in ethane–nitrogen mixtures using Fourier analysis. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 1096-1108.	1.2	9
16	Numerical simulation of a mixed-mode reaction front in a PPC engine. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 5703-5711.	2.4	5
17	Numerical Investigation of Methanol Ignition Sequence in an Optical PPC Engine with Multiple Injection Strategies. , 0, , .		4
18	Effect of Volatile Reactions on the Thermochemical Conversion of Biomass Particles. <i>Energy Procedia</i> , 2017, 105, 4648-4654.	1.8	3

#	ARTICLE	IF	CITATIONS
19	A Numerical Study on the Sensitivity of Soot and NOx Formation to the Operating Conditions in Heavy Duty Engines. , 2018, , .		3
20	Effect of In-cylinder Flow Structures on Late Cycle Soot Oxidation in a Quiescent Heavy-duty Diesel Engine. Combustion Science and Technology, 2022, 194, 316-336.	1.2	3
21	Effects of In-Cylinder Flow Structures on Soot Formation and Oxidation in a Swirl-Supported Light-Duty Diesel Engine. , 0, , .		2
22	Effect of buoyancy on dispersion of reactive pollutants in urban canyons. Atmospheric Pollution Research, 2022, 13, 101502.	1.8	2
23	Large Eddy Simulation of an Ignition Front in a Heavy Duty Partially Premixed Combustion Engine. , 0, , .		0