Chungen Yin

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Grate-firing of biomass for heat and power production. Progress in Energy and Combustion Science, 2008, 34, 725-754.	15.8	402
2	Microwave-assisted pyrolysis of biomass for liquid biofuels production. Bioresource Technology, 2012, 120, 273-284.	4.8	317
3	Oxy-fuel combustion of pulverized fuels: Combustion fundamentals and modeling. Applied Energy, 2016, 162, 742-762.	5.1	280
4	New Weighted Sum of Gray Gases Model Applicable to Computational Fluid Dynamics (CFD) Modeling of Oxyâ"Fuel Combustion: Derivation, Validation, and Implementation. Energy & Fuels, 2010, 24, 6275-6282.	2.5	202
5	Investigation of the flow, combustion, heat-transfer and emissions from a 609MW utility tangentially fired pulverized-coal boiler. Fuel, 2002, 81, 997-1006.	3.4	137
6	Mathematical Modeling and Experimental Study of Biomass Combustion in a Thermal 108 MW Grate-Fired Boiler. Energy & Fuels, 2008, 22, 1380-1390.	2.5	130
7	Modelling the motion of cylindrical particles in a nonuniform flow. Chemical Engineering Science, 2003, 58, 3489-3498.	1.9	126
8	Chemistry and radiation in oxy-fuel combustion: A computational fluid dynamics modeling study. Fuel, 2011, 90, 2519-2529.	3.4	106
9	Use of numerical modeling in design for co-firing biomass in wall-fired burners. Chemical Engineering Science, 2004, 59, 3281-3292.	1.9	92
10	Predicting coal ash fusion temperature with a back-propagation neural network model. Fuel, 1998, 77, 1777-1782.	3.4	91
11	On gas and particle radiation in pulverized fuel combustion furnaces. Applied Energy, 2015, 157, 554-561.	5.1	82
12	Co-firing straw with coal in a swirl-stabilized dual-feed burner: Modelling and experimental validation. Bioresource Technology, 2010, 101, 4169-4178.	4.8	78
13	Further study of the gas temperature deviation in large-scale tangentially coal-fired boilers⋆. Fuel, 2003, 82, 1127-1137.	3.4	77
14	Refined Weighted Sum of Gray Gases Model for Air-Fuel Combustion and Its Impacts. Energy & Fuels, 2013, 27, 6287-6294.	2.5	69
15	Experimental Study on Effects of Particle Shape and Operating Conditions on Combustion Characteristics of Single Biomass Particles. Energy & Fuels, 2013, 27, 507-514.	2.5	69
16	Biomass co-firing under oxy-fuel conditions: A computational fluid dynamics modelling study and experimental validation. Fuel Processing Technology, 2014, 120, 22-33.	3.7	65
17	A novel corner-fired boiler system of improved efficiency and coal flexibility and reduced NOx emissions. Applied Energy, 2019, 238, 453-465.	5.1	65
18	Methods to improve prediction performance of ANN models. Simulation Modelling Practice and Theory, 2003, 11, 211-222.	2.2	63

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19	Municipal solid waste incineration in a packed bed: A comprehensive modeling study with experimental validation. Applied Energy, 2019, 247, 127-139.	5.1	63
20	Pulverized straw combustion in a low-NOx multifuel burner: Modeling the transition from coal to straw. Fuel, 2010, 89, 3051-3062.	3.4	55
21	Turbulence modulation in dilute particle-laden flow. International Journal of Heat and Fluid Flow, 2009, 30, 331-338.	1.1	46
22	Characterizing and modeling of an 88ÂMW grate-fired boiler burning wheat straw: Experience and lessons. Energy, 2012, 41, 473-482.	4.5	46
23	Oxy-coal combustion in an entrained flow reactor: Application ofÂspecific char and volatile combustion and radiation models for oxy-firing conditions. Energy, 2013, 62, 255-268.	4.5	44
24	Nongray-Gas Effects in Modeling of Large-Scale Oxy–Fuel Combustion Processes. Energy & Fuels, 2012, 26, 3349-3356.	2.5	40
25	Experimental and modeling study of flash calcination of kaolinite rich clay particles in a gas suspension calciner. Applied Clay Science, 2015, 103, 10-19.	2.6	40
26	Advanced modelling and testing of a 13 MW th waste wood-fired grate boiler with recycled flue gas. Energy Conversion and Management, 2016, 125, 230-241.	4.4	38
27	Flash calcination of kaolinite rich clay and impact of process conditions on the quality of the calcines: A way to reduce CO2 footprint from cement industry. Applied Energy, 2016, 162, 1218-1224.	5.1	36
28	A Novel Non-Linear Programming-Based Coal Blending Technology for Power Plants. Chemical Engineering Research and Design, 2000, 78, 118-124.	2.7	35
29	Calcination of kaolinite clay particles for cement production: A modeling study. Cement and Concrete Research, 2014, 61-62, 11-19.	4.6	33
30	Causes and mitigation of gas temperature deviation in tangentially fired tower-type boilers. Applied Thermal Engineering, 2018, 139, 135-143.	3.0	32
31	Physical characterization of biomass fuels prepared for suspension firing in utility boilers for CFD modelling. Biomass and Bioenergy, 2007, 31, 318-325.	2.9	29
32	Comprehensive Study of Ignition and Combustion of Single Wooden Particles. Energy & Fuels, 2013, 27, 1061-1072.	2.5	28
33	Engineering bed models for solid fuel conversion process in grate-fired boilers. Energy, 2014, 77, 244-253.	4.5	28
34	Advanced CFD modelling of air and recycled flue gas staging in a waste wood-fired grate boiler for higher combustion efficiency and greater environmental benefits. Journal of Environmental Management, 2018, 218, 200-208.	3.8	28
35	New Fuel Air Control Strategy for Reducing NO _{<i>x</i>} Emissions from Corner-Fired Utility Boilers at Medium–Low Loads. Energy & Fuels, 2017, 31, 6689-6699.	2.5	27
36	More efficient and environmentally friendly combustion of low-rank coal in a down-fired boiler by a simple but effective optimization of staged-air windbox. Fuel Processing Technology, 2019, 194, 106118.	3.7	27

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37	Effects of moisture release and radiation properties in pulverized fuel combustion: A CFD modelling study. Fuel, 2016, 165, 252-259.	3.4	26
38	Prediction of air-fuel and oxy-fuel combustion through a generic gas radiation property model. Applied Energy, 2017, 189, 449-459.	5.1	26
39	Modelling of heating and evaporation of n-Heptane droplets: Towards a generic model for fuel droplet/particle conversion. Fuel, 2015, 141, 64-73.	3.4	22
40	A detailed pyrolysis model for a thermally large biomass particle. Fuel, 2020, 278, 118397.	3.4	22
41	Towards a better understanding of biomass suspension co-firing impacts via investigating a coal flame and a biomass flame in a swirl-stabilized burner flow reactor under same conditions. Fuel Processing Technology, 2012, 98, 65-73.	3.7	21
42	Advancing grate-firing for greater environmental impacts and efficiency for decentralized biomass/wastes combustion. Energy Procedia, 2017, 120, 373-379.	1.8	21
43	Development in biomass preparation for suspension firing towards higher biomass shares and better boiler performance and fuel rangeability. Energy, 2020, 196, 117129.	4.5	20
44	Preliminary Modelling Study of Ice Accretion on Wind Turbines. Energy Procedia, 2014, 61, 258-261.	1.8	16
45	The impacts of different profiles of the grate inlet conditions on freeboard CFD in a waste wood-fired grate boiler. Applied Energy, 2020, 268, 115055.	5.1	16
46	A simplified kinetic model based on a universal description for solid fuels pyrolysis: Theoretical derivation, experimental validation, and application demonstration. Energy, 2021, 225, 120133.	4.5	12
47	Advanced simulation of a 750Ât/d municipal solid waste grate boiler to better accommodate feedstock changes due to waste classification. Energy, 2022, 254, 124338.	4.5	12
48	Euler–Lagrange simulation of gas–solid pipe flow with smooth and rough wall boundary conditions. Powder Technology, 2012, 225, 32-42.	2.1	11
49	Transient heating and evaporation of moving mono-component liquid fuel droplets. Applied Thermal Engineering, 2016, 104, 497-503.	3.0	11
50	A detailed computational fluid dynamics model on biomass pellet smoldering combustion and its parametric study. Chemical Engineering Science, 2021, 231, 116247.	1.9	10
51	Combustion interactions in oxy-fuel firing of coal blends: An experimental and numerical study. Journal of the Energy Institute, 2021, 94, 11-21.	2.7	10
52	A drying model for thermally large biomass particle pyrolysis. Energy Procedia, 2019, 158, 1294-1302.	1.8	8
53	The fractal dimension of calcined limestone and its sulfur-removal reactivity. Energy, 1997, 22, 1051-1058.	4.5	4
54	Simulation of Flash Dehydroxylation of Clay Particle Using gPROMS: A Move Towards Green Concrete. Energy Procedia, 2014, 61, 556-559.	1.8	4

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55	A gas radiation property model applicable to general combustion CFD and its demonstration in oxy-fuel combustion simulation. Energy Procedia, 2017, 120, 564-571.	1.8	4
56	D206 MODELING OF PULVERIZED COAL AND BIOMASS CO-FIRING IN A 150 KW SWIRLING-STABILIZED BURNER AND EXPERIMENTAL VALIDATION(Biomass-5). The Proceedings of the International Conference on Power Engineering (ICOPE), 2009, 2009.2, _2-3052-310	0.0	4
57	Transient Heating and Evaporation of Moving Fuel Droplets. Energy Procedia, 2014, 61, 37-40.	1.8	3
58	Suspension-firing of biomass for heat and power generation: The perspectives of a closed model for non-spherical particle tracking. Applied Thermal Engineering, 2020, 171, 115110.	3.0	3
59	Biomass co-firing. , 2013, , 84-105.		2
60	Coal and biomass cofiring. , 2019, , 89-116.		1
61	Modeling and Experiments of Biomass Combustion in a Large-scale Grate Boiler. , 2007, , 1173-1179.		1
62	A Computational Fluid Dynamics Analysis of Heat Transfer in an Air-Cooled Proton Exchange Membrane Fuel Cell with Transient Boundary Conditions. ECS Transactions, 2020, 98, 255-263.	0.3	1
63	Development of CFD-based icing model for wind turbines: A case study of ice sensor. , 2015, , .		0
64	Modelling of Hot Surface Ignition Within Gas Turbines Subject to Flammable Gas in the Intake. , 2017, , .		0
65	Application of a New Statistical Model for the Description of Solid Fuel Decomposition in the Analysis of Artemisia apiacea Pyrolysis. Energies, 2021, 14, 5789.	1.6	0
66	New H ₂ O weighted sum of gray gases model for natural convection flows within large cavities. Journal of Physics: Conference Series, 2021, 2116, 012064.	0.3	0
67	A Feasibility Study of Placing a Heated Turbulence Grid in Front of an Air-Cooled Fuel Cell Stack in Freezing Conditions. ECS Transactions, 2022, 108, 119-130.	0.3	0