

Shah Rukh Jamil

List of Publications by Year in descending order

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papers

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citations

430442

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92
all docs

92
docs citations

92
times ranked

1050
citing authors

#	ARTICLE	IF	CITATIONS
1	A Study on Coal Properties and Combustion Characteristics of Blended Coals in Northwestern China. Energy & Fuels, 2011, 25, 3634-3645.	2.5	124
2	Evaluation of retrofitting a conventional natural gas fired boiler into a condensing boiler. Energy Conversion and Management, 2004, 45, 3251-3266.	4.4	117
3	Effects of Air Staging Conditions on the Combustion and NO _x Emission Characteristics in a 600 MW Wall Fired Utility Boiler Using Lean Coal. Energy & Fuels, 2013, 27, 5831-5840.	2.5	101
4	Influence of Corrugation Profile on the Thermalhydraulic Performance of Cross-Corrugated Plates. Numerical Heat Transfer; Part A: Applications, 2011, 59, 267-296.	1.2	83
5	Thermodynamic analysis of an LNG fuelled combined cycle power plant with waste heat recovery and utilization system. International Journal of Energy Research, 2007, 31, 975-998.	2.2	47
6	Turbulence Models for Fluid Flow and Heat Transfer Between Cross-Corrugated Plates. Numerical Heat Transfer; Part A: Applications, 2011, 60, 410-440.	1.2	47
7	Moisture Readsorption Performance of Air-Dried and Hydrothermally Dewatered Lignite. Energy & Fuels, 2014, 28, 5023-5030.	2.5	43
8	Experiments and Simulation on Co-Combustion of Semicoke and Coal in a Full-Scale Tangentially Fired Utility Boiler. Energy & Fuels, 2019, 33, 3012-3027.	2.5	43
9	Effect of vapor condensation on forced convection heat transfer of moistened gas. Heat and Mass Transfer, 2007, 43, 677-686.	1.2	41
10	Energy Analysis of Low-Rank Coal Pre-Drying Power Generation Systems. Drying Technology, 2013, 31, 1194-1205.	1.7	40
11	Combustion and Pollutant Emission Characteristics of Lignite Dried by Low Temperature Air. Drying Technology, 2015, 33, 616-631.	1.7	35
12	Simultaneous removal of SO ₂ and NO with OH from the catalytic decomposition of H ₂ O ₂ over Fe-Mo mixed oxides. Journal of Hazardous Materials, 2021, 404, 123936.	6.5	24
13	Experimental study on interaction and kinetic characteristics during combustion of blended coals. Journal of Thermal Analysis and Calorimetry, 2012, 107, 935-942.	2.0	23
14	Numerical Investigation of Conjugate Heat Transfer to Supercritical CO ₂ in a Vertical Tube-in-Tube Heat Exchanger. Numerical Heat Transfer; Part A: Applications, 2015, 67, 857-882.	1.2	22
15	Effect of Two-Level Over-Fire Air on the Combustion and NO _x Emission Characteristics in a 600MW Wall-Fired Boiler. Numerical Heat Transfer; Part A: Applications, 2015, 68, 993-1009.	1.2	22
16	Development and technical progress in large-scale circulating fluidized bed boiler in China. Frontiers in Energy, 2020, 14, 699-714.	1.2	22
17	Effects of silicoaluminate oxide and coal blending on combustion behaviors and kinetics of zhundong coal under oxy-fuel condition. Journal of Thermal Analysis and Calorimetry, 2018, 134, 1975-1986.	2.0	21
18	Experimental Study on Morphology and Chemical Composition of Ash Deposition during Oxy-fuel Combustion of High-Alkali Coal. Energy & Fuels, 2019, 33, 3403-3420.	2.5	21

#	ARTICLE	IF	CITATIONS
19	Catalytic Combustion of Ventilation Air Methane in a Reverse-Flow Reactor. <i>Energy & Fuels</i> , 2010, 24, 4841-4848.	2.5	18
20	Homogeneous Combustion of Fuel Ultra-Lean Methane-Air Mixtures: Experimental Study and Simplified Reaction Mechanism. <i>Energy & Fuels</i> , 2011, 25, 3437-3445.	2.5	17
21	Numerical study on heat transfer and resistance characteristics of supercritical water inside internally-ribbed tube. <i>Heat and Mass Transfer</i> , 2014, 50, 559-572.	1.2	16
22	Combustion and heat transfer characteristics of co-firing biomass and coal under oxy-fuel condition. <i>International Journal of Energy Research</i> , 2018, 42, 4170-4183.	2.2	14
23	Computational fluid dynamics investigation on the effect of co-firing semi-coke and bituminous coal in a 300-MW tangentially fired boiler. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2019, 233, 221-231.	0.8	14
24	Effects of minerals containing sodium, calcium, and iron on oxy-fuel combustion reactivity and kinetics of Zhundong coal via synthetic coal. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 261-271.	2.0	14
25	Experimental Investigation on NO _x Generation Characteristic and Burnout Performance of Co-Combustion of Carbon-Based Solid Fuels under Deep-Staged Combustion. <i>Energy & Fuels</i> , 2020, 34, 2334-2345.	2.5	14
26	An investigation on near wall transport characteristics in an adiabatic upward gas-liquid two-phase slug flow. <i>Heat and Mass Transfer</i> , 2007, 43, 1019-1036.	1.2	13
27	Lattice Boltzmann Simulation of Natural Convection in an Inclined Square Cavity with Spatial Temperature Variation. <i>Numerical Heat Transfer; Part A: Applications</i> , 2014, 66, 712-732.	1.2	13
28	Pyridine and pyrrole oxidation under oxy-fuel conditions. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2016, 38, 975-981.	1.2	13
29	Energy analysis of a lignite predrying power generation system with an efficient waste heat recovery system. <i>Drying Technology</i> , 2017, 35, 1492-1505.	1.7	13
30	Numerical investigation on conjugate heat transfer to supercritical CO ₂ in membrane helical coiled tube heat exchangers. <i>Numerical Heat Transfer; Part A: Applications</i> , 2016, 69, 977-995.	1.2	12
31	A New System of Absorption Heat Pump Vs. Boiler for Recovering Heat and Water Vapor in Flue Gas. <i>Energy Procedia</i> , 2018, 152, 1266-1271.	1.8	12
32	Thermodynamic and economic analysis on a two-stage predrying lignite-fueled power plant. <i>Drying Technology</i> , 2019, 37, 26-37.	1.7	11
33	Investigation on Co-Gasification Characteristics of Semicoke and Bituminous Coal in a CO ₂ Atmosphere at High Temperatures. <i>Energy & Fuels</i> , 2020, 34, 16132-16146.	2.5	11
34	Techno-economic analysis of a novel hybrid heat pump system to recover waste heat and condensate from the low-temperature boiler exhaust gas. <i>International Journal of Energy Research</i> , 2020, 44, 3821-3838.	2.2	11
35	Influence of Tube Arrangement on the Thermal Hydraulic Performance of a Membrane Helical-Coil Heat Exchanger. <i>Numerical Heat Transfer; Part A: Applications</i> , 2012, 62, 565-588.	1.2	10
36	Numerical investigation on conjugate cooling heat transfer to supercritical CO ₂ in vertical double-pipe heat exchangers. <i>Numerical Heat Transfer; Part A: Applications</i> , 2016, 69, 512-528.	1.2	10

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37	Oxy-fuel combustion performances and kinetics of bituminous coal and ultra-low volatile carbon-based fuels. <i>International Journal of Energy Research</i> , 2021, 45, 1892-1907.	2.2	10
38	Theoretical and Experimental Study on Spontaneous Ignition of Lignite during the Drying Process in a Packed Bed. <i>Energy & Fuels</i> , 2012, 26, 6876-6887.	2.5	9
39	Influence of sodium on deactivation and regeneration of SCR catalyst during utilization of Zhundong coals. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2016, 11, 973-980.	0.8	9
40	Diffusional effects on differences of coal char reactivity between air and oxy-fuel combustion in thermogravimetric experiments. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 125, 897-904.	2.0	9
41	NO _x Emissions and Nitrogen Fate at High Temperatures in Staged Combustion. <i>Energies</i> , 2020, 13, 3557.	1.6	9
42	Numerical simulation on the slag flow and heat transfer characteristics of the cyclone barrel for a cyclone-fired boiler. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017, 71, 1052-1065.	1.2	8
43	Utilization of combustible waste gas as a supplementary fuel in coal-fired boilers. <i>International Journal of Energy Research</i> , 2018, 42, 1677-1692.	2.2	8
44	Effects of Magnetic Field and Inclination on Natural Convection in a Cavity Filled with Nanofluids by a Double Multiple-Relaxation-Time Thermal Lattice Boltzmann Method. <i>Heat Transfer Engineering</i> , 2020, 41, 252-270.	1.2	8
45	Effect of Volatile-Char Interaction on Nitrogen Oxide Emission during Combustion of Blended Coal. <i>Journal of Energy Engineering - ASCE</i> , 2016, 142, .	1.0	7
46	Numerical investigation on heat transfer of supercritical water in a roughened tube. <i>Numerical Heat Transfer; Part A: Applications</i> , 2016, 69, 558-573.	1.2	7
47	Study on the formation process of low-temperature ash deposition induced by ammonium bisulfate in pulverized coal-fired boiler. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2020, 15, e2389.	0.8	7
48	Effects of Lignite Predrying Degree on the Combustion and NO Generation in a 600-MW Lignite-Fired Boiler. <i>Journal of Energy Engineering - ASCE</i> , 2020, 146, .	1.0	7
49	Experimental and Numerical Investigations on the Local Direct Leakage Process of Rotary Regenerative Air Preheater. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1523.	1.3	7
50	Deactivation Influence of HF on the V ₂ O ₅ -WO ₃ -TiO ₂ SCR Catalyst. <i>Energy & Fuels</i> , 2021, 35, 4377-4386.	2.5	7
51	Experimental study on near wall transport characteristics of slug flow in a vertical pipe. <i>Heat and Mass Transfer</i> , 2012, 48, 1193-1205.	1.2	6
52	Influence of the gas and liquid superficial velocity on slug frequency. <i>AIP Conference Proceedings</i> , 2013, . .	0.3	6
53	A Numerical Study of High Moisture Flue Gas in Tube Banks. <i>Numerical Heat Transfer; Part A: Applications</i> , 2014, 65, 357-377.	1.2	6
54	Effects of two-dimensional V-shaped grooves on turbulent channel flow. <i>Experiments in Fluids</i> , 2012, 52, 315-328.	1.1	5

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55	Numerical Simulation of Turbulent Flow and Wall Mass Transfer in a Rectangular Channel Roughened by V-Shaped Grooves. Numerical Heat Transfer; Part A: Applications, 2014, 66, 551-581.	1.2	5
56	Effect of ashing temperature on physical-chemical features of high-sodium ashes of Zhundong coals. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2017, 39, 747-753.	1.2	5
57	Investigation on a new lignite predrying power generation system combined with a front air heater. Drying Technology, 2020, 38, 1584-1596.	1.7	5
58	Experimental Study on Coal Gasification in a Full-Scale Two-Stage Entrained-Flow Gasifier. Energies, 2020, 13, 4937.	1.6	5
59	Research and Application of Double-Reheat Boiler in China. Processes, 2021, 9, 2197.	1.3	5
60	Thermal removal of COD and NH ₃ -N from Lurgi coal gasification wastewater. Environmental Progress and Sustainable Energy, 2017, 36, 1333-1341.	1.3	4
61	Elemental Mercury Removal over CeO ₂ /TiO ₂ Catalyst Prepared by Sol-Gel Method. Applied Sciences (Switzerland), 2020, 10, 2706.	1.3	4
62	A study on benzene release during water washing of biomass. Asia-Pacific Journal of Chemical Engineering, 2020, 15, e2536.	0.8	4
63	Effects of ash compositions in Zhundong coal on its ash fusion behavior and crystal phase transformation. Asia-Pacific Journal of Chemical Engineering, 2021, 16, e2639.	0.8	4
64	Numerical Investigation on Cofiring Characteristics of Biomass Syngas and Coal in a 660-MW Tower Boiler. Journal of Energy Engineering - ASCE, 2022, 148, .	1.0	4
65	Investigation of Pyrolysis and Mild Oxidation Characteristics of Tar-Rich Coal via Thermogravimetric Experiments. ACS Omega, 2022, 7, 25613-25624.	1.6	4
66	Numerical Investigation of the Thermohydraulic Performance of Double-Wave Cross-Corrugated Passages. Numerical Heat Transfer; Part A: Applications, 2015, 67, 1029-1052.	1.2	3
67	Investigation on elemental mercury removal and antideactivation performance of modified SCR catalysts. Asia-Pacific Journal of Chemical Engineering, 2018, 13, e2208.	0.8	3
68	Adsorption and Agglomeration Characteristics of Fly Ash Particles in Low-Temperature Flue Gas Treatment Systems. Energy & Fuels, 2019, 33, 6302-6312.	2.5	3
69	Thermogravimetric investigation on co-combustion characteristics and kinetics of antibiotic filter residue and vegetal biomass. Journal of Thermal Analysis and Calorimetry, 2022, 147, 925-938.	2.0	3
70	Thermodynamic Analysis and Case Study of a New Lignite-Fired Power Plant Using Solar Energy as Drying Heat Source. Journal of Energy Engineering - ASCE, 2020, 146, .	1.0	3
71	The competitive behavior for O ₂ and CO ₂ reaction during char oxy-fuel combustion: effects of temperature and inherent minerals. Journal of Thermal Analysis and Calorimetry, 2021, 143, 327-334.	2.0	3
72	Numerical investigation on H ₂ S formation characteristics in air-staging combustion of a tangentially coal-fired boiler. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2022, 44, 1854-1863.	1.2	3

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73	TG analysis and kinetic study of organic constituents in wastewater from coalâ€gasification process. Asia-Pacific Journal of Chemical Engineering, 2017, 12, 406-414.	0.8	2
74	Numerical study on combustion characteristics and heat flux distributions of 660â€MW ultraâ€supercritical doubleâ€reheat towerâ€type boiler. Asia-Pacific Journal of Chemical Engineering, 2021, 16, e2631.	0.8	2
75	Experimental and Numerical Study on Co-combustion Behaviors and NOx Emission Characteristics of Semi-coke and Coal in a Tangentially Fired Utility Boiler. Journal of Thermal Science, 2021, 30, 1116-1131.	0.9	2
76	Effect of coal particle size on gasification performance of twoâ€stage entrainedâ€flow coal gasifier. Canadian Journal of Chemical Engineering, 0, , .	0.9	2
77	Experimental Study on Coal-Nitrogen Release and NO _x Evolution in Oxygen-Enriched and Deep-Staging Combustion. Energy & Fuels, 2021, 35, 12288-12296.	2.5	2
78	Evaluation and optimization of preparation for semi-coke briquette with alkali-heat treated wheat straw binder. International Journal of Coal Preparation and Utilization, 2022, 42, 2332-2344.	1.2	2
79	Study on Passive Control of the Self-excited Thermoacoustic Oscillations Occurring in Combustion Systems. Combustion Science and Technology, 2023, 195, 184-211.	1.2	1
80	Numerical simulation of a novel regenerative heat exchanger with combined sensibleâ€latent heat storage matrix. Numerical Heat Transfer; Part A: Applications, 2021, 80, 579-596.	1.2	1
81	Study on the performance assessment of a novel hybrid heat pump system modified with dedicated mechanical sub-cooler for domestic heating applications. Journal of Thermal Analysis and Calorimetry, 0, , 1.	2.0	1
82	The role and impact of costing method in the decisionâ€making of energy project: A comparative assessment between leveled cost of energy and benefitâ€cost ratio analysis. International Journal of Energy Research, 0, , .	2.2	1
83	Numerical investigation on heat and mass transfer of slit finned tube heat exchanger with humid flue gas. Asia-Pacific Journal of Chemical Engineering, 2022, 17, .	0.8	1
84	A study on corrosion mechanism of 15CrMo in saline (Na ₂ SO ₄) steam at high temperature. Materials and Corrosion - Werkstoffe Und Korrosion, 0, , .	0.8	1
85	Thermogravimetric study on oxy-fuel co-combustion characteristics of semi-coke and antibiotic filter residue. Journal of Thermal Analysis and Calorimetry, 0, , 1.	2.0	1
86	Effect of temperature on corrosion behaviour of 15CrMo steel in saline (Na ₂ SiO ₃) steam/water. Corrosion Engineering Science and Technology, 2022, 57, 442-454.	0.7	1
87	A study on air-cooling waste heat recovery from molten slag of slag-tap boilers. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2017, 231, 371-381.	0.8	0
88	Numerical investigation on heat transfer characteristics of high-pressure syngas in the membrane helical-coil cooler of a 2,000â€t/d gasifier. Numerical Heat Transfer; Part A: Applications, 2017, 72, 708-720.	1.2	0
89	Effect of ash composition on adsorption and agglomeration characteristics in lowâ€temperature electrostatic precipitator systems. Canadian Journal of Chemical Engineering, 2022, 100, 966-978.	0.9	0
90	B206 Experimental Study on Convection-Condensation Heat Transfer Characteristics of High Moisture Flue Gases. The Proceedings of the International Conference on Power Engineering (ICOPE), 2003, 2003.2, _2-119_-_2-123_.	0.0	0

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91	Numerical Study on the Homogeneous Reactions of Mercury in a 600 MW Coal-Fired Utility Boiler. Energies, 2022, 15, 446.	1.6	0
92	A Comparative Study on Corrosion Behaviors of 15CrMo in Saline (Na ₂ SO ₄) Gas Phase and Liquid Phase at 350Å°C. Jom, 0, , 1.	0.9	0