# Shah Rukh Jamil

List of Publications by Year
in descending order



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|---|---|---|---|
| 92 papers | 1,337 citations | 430874 18 h-index | 395702 33 g-index |
| 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. | 5.1 | 124 |
| 2 | Evaluation of retrofitting a conventional natural gas fired boiler into a condensing boiler. Energy Conversion and Management, 2004, 45, 3251-3266. | 9.2 | 117 |
| 3 | Effects of Air Staging Conditions on the Combustion and NO<sub>x</sub> Emission Characteristics in a 600 MW Wall Fired Utility Boiler Using Lean Coal. Energy & Fuels, 2013, 27, 5831-5840. | 5.1 | 101 |
| 4 | Influence of Corrugation Profile on the Thermalhydraulic Performance of Cross-Corrugated Plates. Numerical Heat Transfer; Part A: Applications, 2011, 59, 267-296. | 2.1 | 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. | 4.5 | 47 |
| 6 | Turbulence Models for Fluid Flow and Heat Transfer Between Cross-Corrugated Plates. Numerical Heat Transfer; Part A: Applications, 2011, 60, 410-440. | 2.1 | 47 |
| 7 | Moisture Readsorption Performance of Air-Dried and Hydrothermally Dewatered Lignite. Energy & Fuels, 2014, 28, 5023-5030. | 5.1 | 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. | 5.1 | 43 |
| 9 | Effect of vapor condensation on forced convection heat transfer of moistened gas. Heat and Mass Transfer, 2007, 43, 677-686. | 2.1 | 41 |
| 10 | Energy Analysis of Low-Rank Coal Pre-Drying Power Generation Systems. Drying Technology, 2013, 31, 1194-1205. | 3.1 | 40 |
| 11 | Combustion and Pollutant Emission Characteristics of Lignite Dried by Low Temperature Air. Drying Technology, 2015, 33, 616-631. | 3.1 | 35 |
| 12 | Simultaneous removal of SO2 and NO with OH from the catalytic decomposition of H2O2 over Fe-Mo mixed oxides. Journal of Hazardous Materials, 2021, 404, 123936. | 12.4 | 24 |
| 13 | Experimental study on interaction and kinetic characteristics during combustion of blended coals. Journal of Thermal Analysis and Calorimetry, 2012, 107, 935-942. | 3.6 | 23 |
| 14 | Numerical Investigation of Conjugate Heat Transfer to Supercritical CO<sub>2</sub>in a Vertical Tube-in-Tube Heat Exchanger. Numerical Heat Transfer; Part A: Applications, 2015, 67, 857-882. | 2.1 | 22 |
| 15 | Effect of Two-Level Over-Fire Air on the Combustion and NO<sub>x</sub>Emission Characteristics in a 600ÂMW Wall-Fired Boiler. Numerical Heat Transfer; Part A: Applications, 2015, 68, 993-1009. | 2.1 | 22 |
| 16 | Development and technical progress in large-scale circulating fluidized bed boiler in China. Frontiers in Energy, 2020, 14, 699-714. | 2.3 | 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. | 3.6 | 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. | 5.1 | 21 |

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|---|---|---|---|
| 19 | Catalytic Combustion of Ventilation Air Methane in a Reverse-Flow Reactor. Energy & Fuels, 2010, 24, 4841-4848. | 5.1 | 18 |
| 20 | Homogeneous Combustion of Fuel Ultra-Lean Methaneâ€"Air Mixtures: Experimental Study and Simplified Reaction Mechanism. Energy & Fuels, 2011, 25, 3437-3445. | 5.1 | 17 |
| 21 | Numerical study on heat transfer and resistance characteristics of supercritical water inside internally-ribbed tube. Heat and Mass Transfer, 2014, 50, 559-572. | 2.1 | 16 |
| 22 | Combustion and heat transfer characteristics of co-firing biomass and coal under oxy-fuel condition. International Journal of Energy Research, 2018, 42, 4170-4183. | 4.5 | 14 |
| 23 | Computational fluid dynamics investigation on the effect of co-firing semi-coke and bituminous coal in a 300â€‰MW tangentially fired boiler. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2019, 233, 221-231. | 1.4 | 14 |
| 24 | Effects of minerals containing sodium, calcium, and iron on oxy-fuel combustion reactivity and kinetics of Zhundong coal via synthetic coal. Journal of Thermal Analysis and Calorimetry, 2020, 139, 261-271. | 3.6 | 14 |
| 25 | Experimental Investigation on NO<sub>x</sub> Generation Characteristic and Burnout Performance of Co-Combustion of Carbon-Based Solid Fuels under Deep-Staged Combustion. Energy & Fuels, 2020, 34, 2334-2345. | 5.1 | 14 |
| 26 | An investigation on near wall transport characteristics in an adiabatic upward gasâ€"liquid two-phase slug flow. Heat and Mass Transfer, 2007, 43, 1019-1036. | 2.1 | 13 |
| 27 | Lattice Boltzmann Simulation of Natural Convection in an Inclined Square Cavity with Spatial Temperature Variation. Numerical Heat Transfer; Part A: Applications, 2014, 66, 712-732. | 2.1 | 13 |
| 28 | Pyridine and pyrrole oxidation under oxy-fuel conditions. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2016, 38, 975-981. | 2.3 | 13 |
| 29 | Energy analysis of a lignite predrying power generation system with an efficient waste heat recovery system. Drying Technology, 2017, 35, 1492-1505. | 3.1 | 13 |
| 30 | Numerical investigation on conjugate heat transfer to supercritical CO2in membrane helical coiled tube heat exchangers. Numerical Heat Transfer; Part A: Applications, 2016, 69, 977-995. | 2.1 | 12 |
| 31 | A New System of Absorption Heat Pump Vs. Boiler for Recovering Heat and Water Vapor in Flue Gas. Energy Procedia, 2018, 152, 1266-1271. | 1.8 | 12 |
| 32 | Thermodynamic and economic analysis on a two-stage predrying lignite-fueled power plant. Drying Technology, 2019, 37, 26-37. | 3.1 | 11 |
| 33 | Investigation on Co-Gasification Characteristics of Semicoke and Bituminous Coal in a CO<sub>2</sub> Atmosphere at High Temperatures. Energy & Fuels, 2020, 34, 16132-16146. | 5.1 | 11 |
| 34 | Technoâ€economic analysis of a novel hybrid heat pump system to recover waste heat and condensate from the lowâ€temperature boiler exhaust gas. International Journal of Energy Research, 2020, 44, 3821-3838. | 4.5 | 11 |
| 35 | Influence of Tube Arrangement on the Thermal Hydraulic Performance of a Membrane Helical-Coil Heat Exchanger. Numerical Heat Transfer; Part A: Applications, 2012, 62, 565-588. | 2.1 | 10 |
| 36 | Numerical investigation on conjugate cooling heat transfer to supercritical CO<sub>2</sub>in vertical double-pipe heat exchangers. Numerical Heat Transfer; Part A: Applications, 2016, 69, 512-528. | 2.1 | 10 |

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| 37 | Oxyâ€fuel coâ€combustion performances and kinetics of bituminous coal and ultraâ€low volatile carbonâ€based fuels. International Journal of Energy Research, 2021, 45, 1892-1907. | 4.5 | 10 |
| 38 | Theoretical and Experimental Study on Spontaneous Ignition of Lignite during the Drying Process in a Packed Bed. Energy & Fuels, 2012, 26, 6876-6887. | 5.1 | 9 |
| 39 | Influence of sodium on deactivation and regeneration of SCR catalyst during utilization of Zhundong coals. Asia-Pacific Journal of Chemical Engineering, 2016, 11, 973-980. | 1.5 | 9 |
| 40 | Diffusional effects on differences of coal char reactivity between air and oxy-fuel combustion in thermogravimetric experiments. Journal of Thermal Analysis and Calorimetry, 2016, 125, 897-904. | 3.6 | 9 |
| 41 | NOx Emissions and Nitrogen Fate at High Temperatures in Staged Combustion. Energies, 2020, 13, 3557. | 3.1 | 9 |
| 42 | Numerical simulation on the slag flow and heat transfer characteristics of the cyclone barrel for a cyclone-fired boiler. Numerical Heat Transfer; Part A: Applications, 2017, 71, 1052-1065. | 2.1 | 8 |
| 43 | Utilization of combustible waste gas as a supplementary fuel in coal-fired boilers. International Journal of Energy Research, 2018, 42, 1677-1692. | 4.5 | 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. Heat Transfer Engineering, 2020, 41, 252-270. | 1.9 | 8 |
| 45 | Effect of Volatile-Char Interaction on Nitrogen Oxide Emission during Combustion of Blended Coal. Journal of Energy Engineering - ASCE, 2016, 142, . | 1.9 | 7 |
| 46 | Numerical investigation on heat transfer of supercritical water in a roughened tube. Numerical Heat Transfer; Part A: Applications, 2016, 69, 558-573. | 2.1 | 7 |
| 47 | Study on the formation process of lowâ€temperature ash deposition induced by ammonium bisulfate in pulverized coalâ€fired boiler. Asia-Pacific Journal of Chemical Engineering, 2020, 15, e2389. | 1.5 | 7 |
| 48 | Effects of Lignite Predrying Degree on the Combustion and NO Generation in a 600-MW Lignite-Fired Boiler. Journal of Energy Engineering - ASCE, 2020, 146, . | 1.9 | 7 |
| 49 | Experimental and Numerical Investigations on the Local Direct Leakage Process of Rotary Regenerative Air Preheater. Applied Sciences (Switzerland), 2020, 10, 1523. | 2.5 | 7 |
| 50 | Deactivation Influence of HF on the V<sub>2</sub>O<sub>5</sub>â€“WO<sub>3</sub>â€“TiO<sub>2</sub> SCR Catalyst. Energy & Fuels, 2021, 35, 4377-4386. | 5.1 | 7 |
| 51 | Experimental study on near wall transport characteristics of slug flow in a vertical pipe. Heat and Mass Transfer, 2012, 48, 1193-1205. | 2.1 | 6 |
| 52 | Influence of the gas and liquid superficial velocity on slug frequency. AIP Conference Proceedings, 2013, , . | 0.4 | 6 |
| 53 | A Numerical Study of High Moisture Flue Gas in Tube Banks. Numerical Heat Transfer; Part A: Applications, 2014, 65, 357-377. | 2.1 | 6 |
| 54 | Effects of two-dimensional V-shaped grooves on turbulent channel flow. Experiments in Fluids, 2012, 52, 315-328. | 2.4 | 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. | 2.1 | 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. | 2.3 | 5 |
| 57 | Investigation on a new lignite predrying power generation system combined with a front air heater. Drying Technology, 2020, 38, 1584-1596. | 3.1 | 5 |
| 58 | Experimental Study on Coal Gasification in a Full-Scale Two-Stage Entrained-Flow Gasifier. Energies, 2020, 13, 4937. | 3.1 | 5 |
| 59 | Research and Application of Double-Reheat Boiler in China. Processes, 2021, 9, 2197. | 2.8 | 5 |
| 60 | Thermal removal of COD and NH<sub>3</sub>ï£¿N from Lurgi coalâ€gasification wastewater. Environmental Progress and Sustainable Energy, 2017, 36, 1333-1341. | 2.3 | 4 |
| 61 | Elemental Mercury Removal over CeO2/TiO2 Catalyst Prepared by Solâ€"Gel Method. Applied Sciences (Switzerland), 2020, 10, 2706. | 2.5 | 4 |
| 62 | A study on benzene release during water washing of biomass. Asia-Pacific Journal of Chemical Engineering, 2020, 15, e2536. | 1.5 | 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. | 1.5 | 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, . | 1.9 | 4 |
| 65 | Investigation of Pyrolysis and Mild Oxidation Characteristics of Tar-Rich Coal via Thermogravimetric Experiments. ACS Omega, 2022, 7, 25613-25624. | 3.5 | 4 |
| 66 | Numerical Investigation of the Thermohydraulic Performance of Double-Wave Cross-Corrugated Passages. Numerical Heat Transfer; Part A: Applications, 2015, 67, 1029-1052. | 2.1 | 3 |
| 67 | Investigation on elemental mercury removal and antideactivation performance of modified <scp>SCR</scp> catalysts. Asia-Pacific Journal of Chemical Engineering, 2018, 13, e2208. | 1.5 | 3 |
| 68 | Adsorption and Agglomeration Characteristics of Fly Ash Particles in Lowâ€"Low-Temperature Flue Gas Treatment Systems. Energy & Fuels, 2019, 33, 6302-6312. | 5.1 | 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. | 3.6 | 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, . | 1.9 | 3 |
| 71 | The competitive behavior for O2 and CO2 reaction during char oxy-fuel combustion: effects of temperature and inherent minerals. Journal of Thermal Analysis and Calorimetry, 2021, 143, 327-334. | 3.6 | 3 |
| 72 | Numerical investigation on H<sub>2</sub>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. | 2.3 | 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. | 1.5 | 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. | 1.5 | 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. | 1.9 | 2 |
| 76 | Effect of coal particle size on gasification performance of twoâ€stage entrainedâ€flow coal gasifier. Canadian Journal of Chemical Engineering, 0, , . | 1.7 | 2 |
| 77 | Experimental Study on Coal-Nitrogen Release and NO<sub>x</sub> Evolution in Oxygen-Enriched and Deep-Staging Combustion. Energy & Fuels, 2021, 35, 12288-12296. | 5.1 | 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. | 2.1 | 2 |
| 79 | Study on Passive Control of the Self-excited Thermoacoustic Oscillations Occurring in Combustion Systems. Combustion Science and Technology, 2023, 195, 184-211. | 2.3 | 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. | 2.1 | 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. | 3.6 | 1 |
| 82 | The role and impact of costing method in the decisionâ€making of energy project: A comparative assessment between levelized cost of energy and benefitâ€toâ€cost ratio analysis. International Journal of Energy Research, 0, , . | 4.5 | 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, . | 1.5 | 1 |
| 84 | A study on corrosion mechanism of 15CrMo in saline (Na <sub>2</sub> SO <sub>4</sub> ) steam at high temperature. Materials and Corrosion - Werkstoffe Und Korrosion, 0, , . | 1.5 | 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. | 3.6 | 1 |
| 86 | Effect of temperature on corrosion behaviour of 15CrMo steel in saline (Na<sub>2</sub>siO<sub>3</sub>) steam/water. Corrosion Engineering Science and Technology, 2022, 57, 442-454. | 1.4 | 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. | 1.4 | 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. | 2.1 | 0 |
| 89 | Effect of ash composition on adsorption and agglomeration characteristics in lowâ€lowâ€temperature electrostatic precipitator systems. Canadian Journal of Chemical Engineering, 2022, 100, 966-978. | 1.7 | 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. | 3.1 | 0 |
| 92 | A Comparative Study on Corrosion Behaviors of 15CrMo in Saline (Na2SO4) Gas Phase and Liquid Phase at 350Â°C. Jom, 0, , 1. | 1.9 | 0 |