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Environmental, economic and energetic benefits of using coal and oil processing waste instead of coal to produce the same amount of energy

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#	Paper	IF	Citations
59	Big-Data-Mining-Based Improved K-Means Algorithm for Energy Use Analysis of Coal-Fired Power Plant Units: A Case Study. <i>Entropy</i> , 2018 , 20,	2.8	5
58	Relationship between fractal meso-structural and mechanical characteristics of lump coal under uniaxial compression at different temperatures. <i>Fuel Processing Technology</i> , 2019 , 194, 106112	7.2	6
57	Gas anthropogenic emissions during slurry fuels combustion. 2019 ,		
56	Low NOX - LPG staged combustion double swirl flames. <i>Renewable Energy</i> , 2019 , 138, 303-315	8.1	16
55	Effects of coal ash on iron-based oxygen carrier in chemical-looping combustion using three different rank coals as fuel. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2019 , 14, e2313	1.3	4
54	Mathematical modelling of swirl oxy-fuel burner flame characteristics. <i>Energy Conversion and Management</i> , 2019 , 191, 193-207	10.6	10
53	On the Flexible Operation of Supercritical Circulating Fluidized Bed: Burning Carbon Based Decentralized Active Disturbance Rejection Control. <i>Energies</i> , 2019 , 12, 1132	3.1	5
52	Prospects of thermal power plants switching from traditional fuels to coal-water slurries containing petrochemicals. <i>Science of the Total Environment</i> , 2019 , 671, 568-577	10.2	20
51	Economic analysis of a 600 mwe ultra supercritical circulating fluidized bed power plant based on coal tax and biomass co-combustion plans. <i>Renewable Energy</i> , 2019 , 138, 121-127	8.1	36
50	Thermokinetic characteristics of coal spontaneous combustion based on thermogravimetric analysis. <i>Fuel</i> , 2019 , 250, 235-244	7.1	57
49	Preparing coal slurry from coking wastewater to achieve resource utilization: Slurrying mechanism of coking wastewater-coal slurry. <i>Science of the Total Environment</i> , 2019 , 650, 1678-1687	10.2	38
48	Combustion and pollutant emissions characteristics of Camellia oleifera shells in a vortexing fluidized-bed combustor. <i>Journal of the Energy Institute</i> , 2020 , 93, 739-751	5.7	4
47	Co-combustion of coal processing waste, oil refining waste and municipal solid waste: Mechanism, characteristics, emissions. <i>Chemosphere</i> , 2020 , 240, 124892	8.4	23
46	Conditions and characteristics of droplets breakup for industrial waste-derived fuel suspensions ignited in high-temperature air. <i>Fuel</i> , 2020 , 265, 116915	7.1	20
45	Additives to Coal-Based Fuel Pellets for the Intensification of Combustion and Reduction in Anthropogenic Gas Emissions. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 6689	2.6	1
44	Ash Composition in the Combustion of Promising Slurry Fuels. <i>Coke and Chemistry</i> , 2020 , 63, 149-158	0.5	
43	Methodology of determination of the optimal investment strategy in single-fuel CHP plants. <i>Energy Strategy Reviews</i> , 2020 , 32, 100572	9.8	2

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41	Developing the environmentally friendly technologies of combustion of gas hydrates. Reducing harmful emissions during combustion. <i>Environmental Pollution</i> , 2020 , 265, 114871	9.3	17
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37	Thermo-economic optimization of gasification process with coal water slurry preheating technology. <i>Energy</i> , 2020 , 199, 117354	7.9	7
36	Comparing the ignition parameters of promising coal fuels. <i>Chemical Engineering Research and Design</i> , 2020 , 139, 273-282	5.5	11
35	Impact of micro-explosive atomization of fuel droplets on relative performance indicators of their combustion. <i>Fuel Processing Technology</i> , 2020 , 201, 106334	7.2	26
34	Multi-Criteria Efficiency Analysis of Using Waste-Based Fuel Mixtures in the Power Industries of China, Japan, and Russia. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2460	2.6	5
33	Relative Environmental, Economic, and Energy Performance Indicators of Fuel Compositions with Biomass. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2092	2.6	5
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31	Influence of Bingham fluid viscosity on energy performances of a vortex chamber pump. <i>Energy</i> , 2021 , 218, 119432	7.9	19
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20	Relative energy efficiency indicators calculated for high-moisture waste-based fuel blends using multiple-criteria decision-making. <i>Energy</i> , 2021 , 234, 121257	7.9	3
19	Atomization behavior of composite liquid fuels based on typical coal processing wastes. <i>Fuel Processing Technology</i> , 2022 , 225, 107037	7.2	5
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13	Division of coal spontaneous combustion stages and selection of indicator gases.. <i>PLoS ONE</i> , 2022 , 17, e0267479	3.7	1
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8	Thermal Kinetics of Coal Spontaneous Combustion Based on Multiphase Fully Coupled Fluid-Mechanical Porous Media Model. <i>Natural Resources Research</i> ,	4.9	1
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- 5 Study on the evolution of the pore structure of low rank coal during spontaneous combustion. ○
- 4 Effect of thermal damage on the pore-fracture system during coal spontaneous combustion. **2023**, 339, 127439 2
- 3 Dissociation of gas hydrates in different heating schemes. **2023**, 40, 101774 ○
- 2 Multicriteria Analysis to Substantiate the Promising Nature of Using Waste as Components of Fuels. ○
- 1 Experimental Research of the Initial Temperature and Additives Effect on the Ignition and Combustion Mechanisms of Composite Liquid Fuel in a High-Temperature Oxidizer. **2023**, 13, 3501 ○