Pavel A Strizhak

List of Publications by Year
in descending order

464 papers	6,340 citations	108046 37 h-index	190340 53 g-index
466 all docs	466 docs citations	466 times ranked	1547 citing authors

#	Article	IF	Citations
1	Effects of temperature on viscosity, stability, and microstructure of water-in-biodiesel microemulsions. Journal of Dispersion Science and Technology, 2023, 44, 987-999.	1.3	1
2	Atomization behavior of composite liquid fuels based on typical coal processing wastes. Fuel Processing Technology, 2022, 225, 107037.	3.7	19
3	Temperature recording of the iceâ€"water system using planar laser induced fluorescence. Experimental Thermal and Fluid Science, 2022, 131, 110532.	1.5	5
4	Experimental research of liquid droplets colliding with solid particles in a gaseous medium. Chemical Engineering Research and Design, 2022, 177, 200-209.	2.7	10
5	Influence of the component composition of extinguishing fluids on the droplet distribution in an aerosol cloud. Powder Technology, 2022, 395, 838-849.	2.1	6
6	Normalizing anthropogenic gas emissions from the combustion of industrial waste as part of fuel slurries. Fuel, 2022, 313, 122653.	3.4	6
7	Puffing/micro-explosion in composite multi-component droplets. International Journal of Heat and Mass Transfer, 2022, 184, 122210.	2.5	7
8	Effects of water subdroplet location on the start of puffing/micro-explosion in composite fuel-water droplets. International Journal of Heat and Mass Transfer, 2022, 186, 122466.	2.5	15
9	Emissions from the combustion of high-potential slurry fuels. Environmental Science and Pollution Research, 2022, 29, 37989-38005.	2.7	4
10	Combustion, Pyrolysis, and Gasification of Waste-Derived Fuel Slurries, Low-Grade Liquids, and High-Moisture Waste: Review. Applied Sciences (Switzerland), 2022, 12, 1039.	1.3	19
11	The transition boundaries between interaction regimes of liquid droplets colliding in a gas. Chemical Engineering Research and Design, 2022, 179, 201-226.	2.7	2
12	Ratio of water/fuel concentration in a group of composite droplets on high-temperature heating. Applied Thermal Engineering, 2022, 206, 118107.	3.0	6
13	Disintegration of Free-falling Liquid Droplets, Jets, and Arrays in Air. Microgravity Science and Technology, 2022, 34, 1.	0.7	5
14	Key Areas of Gas Hydrates Study: Review. Energies, 2022, 15, 1799.	1.6	11
15	Puffing/micro-explosion in droplets of rapeseed oil with coal micro-particles and water. Fuel, 2022, 316, 123009.	3.4	5
16	Time evolution of composite fuel/water droplet radii before the start of puffing/micro-explosion. International Journal of Heat and Mass Transfer, 2022, 191, 122838.	2.5	14
17	Effect of adding a liquid combustible component and wood biomass to slurry fuel on spraying characteristics. Powder Technology, 2022, 403, 117382.	2.1	2
18	Droplet-droplet, droplet-particle, and droplet-substrate collision behavior. Powder Technology, 2022, 403, 117371.	2.1	16

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19	Mathematical modeling of heat transfer in a droplet of coal-water fuel leading to its fragmentation. Applied Thermal Engineering, 2022, 212, 118628.	3.0	4
20	Identification of slurry fuel components in a spray flow. Fuel, 2022, 323, 124353.	3.4	5
21	Rheology, ignition, and combustion performance of coal-water slurries: Influence of sequence and methods of mixing. Fuel, 2022, 322, 124294.	3.4	12
22	Modeling of a Double Gas Hydrate Particle Ignition. Applied Sciences (Switzerland), 2022, 12, 5953.	1.3	8
23	Prospects of Using Gas Hydrates in Power Plants. Energies, 2022, 15, 4188.	1.6	4
24	Influence of Compartment Fire Behavior at Ignition and Combustion Development Stages on the Operation of Fire Detectors. Fire, 2022, 5, 84.	1.2	6
25	The Effect of Impurities on Water Droplet Collision Regimes and Behavior. Microgravity Science and Technology, 2022, 34, .	0.7	1
26	The necessary water discharge density to suppress fires in premises. Powder Technology, 2022, 408, 117707.	2.1	6
27	Ecological Assessment of Industrial Waste as a High-Potential Component of Slurry Fuels. Waste and Biomass Valorization, 2021, 12, 1659-1676.	1.8	0
28	Using Planar Laser Induced Fluorescence and Micro Particle Image Velocimetry to study the heating of a droplet with different tracers and schemes of attaching it on a holder. International Journal of Thermal Sciences, 2021, 159, 106603.	2.6	15
29	Convective heat transfer in droplets of fuel microemulsions during conductive heating. Experimental Thermal and Fluid Science, 2021, 120, 110258.	1.5	2
30	Secondary atomization of water-in-oil emulsion drops impinging on a heated surface in the film boiling regime. International Journal of Heat and Mass Transfer, 2021, 165, 120672.	2.5	19
31	Micro-explosive droplet fragmentation of environmentally promising coal-water slurries containing petrochemicals. Fuel, 2021, 283, 118949.	3.4	15
32	Coal and petroleum-derived components for high-moisture fuel slurries. Energy, 2021, 219, 119606.	4.5	2
33	Combustion and emission behavior of different waste fuel blends in a laboratory furnace. Fuel, 2021, 285, 119098.	3.4	22
34	Combustion of Wet Coal Processing Waste and Coal Slime as Components of Fuel Slurries. Combustion Science and Technology, 2021, 193, 1120-1139.	1.2	4
35	Micro-explosion of droplets containing liquids with different viscosity, interfacial and surface tension. Chemical Engineering Research and Design, 2021, 165, 478.	2.7	1
36	Micro-explosion of a two-component droplet: How the initial temperature of the water core affects the breakup conditions and outcomes. Powder Technology, 2021, 382, 378-387.	2.1	6

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37	Child droplets from micro-explosion of emulsion and immiscible two-component droplets. International Journal of Heat and Mass Transfer, 2021, 169, 120931.	2.5	19
38	Synergistic Effect of the Fuel Microemulsion Characteristics on Drop Interaction with a Hot Wall. Energy & Fuels, 2021, 35, 8042-8050.	2.5	4
39	Experimental study of miscibility of liquids in binary droplet collisions. Chemical Engineering Research and Design, 2021, 168, 1-12.	2.7	12
40	Determining water content in a liquid fuel by the luminosity of its droplet. Chemical Engineering Science, 2021, 233, 116415.	1.9	6
41	Puffing/micro-explosion in rapeseed oil/water droplets: The effects of coal micro-particles in water. Fuel, 2021, 289, 119814.	3.4	30
42	The critical atomization conditions of high-potential fire suppressant droplets in an air flow. Powder Technology, 2021, 384, 505-521.	2.1	7
43	Experimental and numerical studies on the temperature in a pendant water droplet heated in the hot air. International Journal of Thermal Sciences, 2021, 163, 106855.	2.6	5
44	Collisions of water droplets in the high-temperature air. International Journal of Heat and Mass Transfer, 2021, 170, 121011.	2.5	10
45	Lab-Scale Combustion of High-Moisture Fuels From Peat, Coal Waste and Milled Lignite. Waste and Biomass Valorization, 2021, 12, 6619-6634.	1.8	3
46	Investigating regularities of gas hydrate ignition on a heated surface: Experiments and modelling. Combustion and Flame, 2021, 228, 78-88.	2.8	25
47	Anthropogenic emissions from the combustion of composite coal-based fuels. Science of the Total Environment, 2021, 772, 144909.	3.9	19
48	Experimental research of the vapor zone between two coalescing droplets of heated water. International Communications in Heat and Mass Transfer, 2021, 126, 105410.	2.9	4
49	Physicochemical features of the effect of special water-based fire retardants on forest materials. Fire Safety Journal, 2021, 123, 103371.	1.4	10
50	Mathematical Simulation of Ignition of an Organic Coalâ€“Water Fuel Droplet. Journal of Engineering Physics and Thermophysics, 2021, 94, 949-962.	0.2	1
51	Fragmentation of heated droplets of coal-water slurries containing petrochemicals. Applied Thermal Engineering, 2021, 195, 117190.	3.0	6
52	Experimental research into the ignition and combustion characteristics of slurry fuels based on dry and wet coal processing waste. Journal of the Energy Institute, 2021, 97, 213-224.	2.7	8
53	Puffing/micro-explosion of two closely spaced composite droplets in tandem: Experimental results and modelling. International Journal of Heat and Mass Transfer, 2021, 176, 121449.	2.5	19
54	Collisions of Liquid Droplets in a Gaseous Medium under Conditions of Intense Phase Transformations: Review. Energies, 2021, 14, 6150.	1.6	4

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55	Interaction between droplets of solutions in a heated gaseous medium. Powder Technology, 2021, 390, 86-96.	2.1	6
56	Composition of a gas and ash mixture formed during the pyrolysis and combustion of coal-water slurries containing petrochemicals. Environmental Pollution, 2021, 285, 117390.	3.7	31
57	Impact of scattered radiation on thermal radiation shielding by water curtains. Chemical Engineering Research and Design, 2021, 154, 278-290.	2.7	10
58	Convection velocities in gas and liquid phases during fragmentation of droplets. Experimental Thermal and Fluid Science, 2021, 129, 110476.	1.5	4
59	Comparison of micro-explosive fragmentation regimes and characteristics of two- and three-component droplets on a heated substrate. International Journal of Heat and Mass Transfer, 2021, 179, 121651.	2.5	2
60	Relative energy efficiency indicators calculated for high-moisture waste-based fuel blends using multiple-criteria decision-making. Energy, 2021, 234, 121257.	4.5	13
61	Puffing/micro-explosion in composite fuel/water droplets heated in flames. Combustion and Flame, 2021, 233, 111599.	2.8	25
62	Temperature measurements in a string of three closely spaced droplets before the start of puffing/micro-explosion: Experimental results and modelling. International Journal of Heat and Mass Transfer, 2021, 181, 121837.	2.5	8
63	Composition of gas produced from the direct combustion and pyrolysis of biomass. Chemical Engineering Research and Design, 2021, 156, 43-56.	2.7	45
64	Critical Conditions for the Ignition of a Gel Fuel under Different Heating Schemes. Energies, 2021, 14, 7083.	1.6	0
65	Mathematical Definition of the Transition Boundaries Between Collision Regimes of Droplets. Journal of Engineering Physics and Thermophysics, 2021, 94, 1147-1159.	0.2	0
66	Collisions of Two-Phase Liquid Droplets in a Heated Gas Medium. Entropy, 2021, 23, 1476.	1.1	2
67	Differences of two-component droplets breakup at the high temperatures. Journal of the Energy Institute, 2020, 93, 351-366.	2.7	10
68	Child droplets produced by micro-explosion and puffing of two-component droplets. Applied Thermal Engineering, 2020, 164, 114501.	3.0	13
69	Dispersed phase structure and micro-explosion behavior under different schemes of water-fuel droplets heating. Fuel, 2020, 259, 116241.	3.4	30
70	Thermal stability control of the water-in-diesel microemulsion fuel produced by using a nonionic surfactant combined with aliphatic alcohols. Journal of Dispersion Science and Technology, 2020, 41, 771-778.	1.3	19
71	Cooling of the hot steel balls by salt â€“water solutions and water-based suspensions: Subcooled pool boiling experiments. International Journal of Thermal Sciences, 2020, 148, 106164.	2.6	7
72	Experimental research into the characteristics of child droplets formed due to collisions of liquid fragments in a gas. Powder Technology, 2020, 363, 122-134.	2.1	3

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73	Intensity dependent features of the light-induced gasification of the waste-derived coal-water compositions. Renewable Energy, 2020, 146, 1667-1675.	4.3	8
74	Heat exchange of an evaporating water droplet in a high-temperature environment. International Journal of Thermal Sciences, 2020, 150, 106227.	2.6	22
75	Using Planar Laser Induced Fluorescence to determine temperature fields of drops, films, and aerosols. Measurement: Journal of the International Measurement Confederation, 2020, 153, 107439.	2.5	7
76	Measurement of the temperature of water solutions, emulsions, and slurries droplets using planar-laser-induced fluorescence. Measurement Science and Technology, 2020, 31, 035201.	1.4	5
77	Effects of plant additives on the concentration of sulfur and nitrogen oxides in the combustion products of coal-water slurries containing petrochemicals. Environmental Pollution, 2020, 258, 113682.	3.7	36
78	Additives to Coal-Based Fuel Pellets for the Intensification of Combustion and Reduction in Anthropogenic Gas Emissions. Applied Sciences (Switzerland), 2020, 10, 6689.	1.3	4
79	Measuring temperature of emulsion and immiscible two-component drops until micro-explosion using two-color LIF. International Journal of Heat and Mass Transfer, 2020, 163, 120505.	2.5	11
80	An experimental investigation into ignition and combustion of groups of slurry fuel droplets containing high concentrations of water. Fuel Processing Technology, 2020, 210, 106553.	3.7	20
81	Application of the laser induced phosphorescence method to the analysis of temperature distribution in heated and evaporating droplets. International Journal of Heat and Mass Transfer, 2020, 163, 120421.	2.5	11
82	Influence of the Method of Water Supply to the Zone of a Forest Fire on the Efficiency of its Extinguishing. Journal of Engineering Physics and Thermophysics, 2020, 93, 1460-1469.	0.2	3
83	Energy analysis of secondary droplet atomization schemes. International Communications in Heat and Mass Transfer, 2020, 117, 104666.	2.9	14
84	Suppression of Flaming Combustion and Thermal Decomposition of Condensed Matter at Different Heights of the Beginning of Water Array Motion. Combustion, Explosion and Shock Waves, 2020, 56, 83-91.	0.3	3
85	Micro-explosion and puffing of a group of two-component droplets. Applied Thermal Engineering, 2020, 181, 116023.	3.0	10
86	Secondary atomization of gas-saturated liquid droplets as a result of their collisions and micro-explosion. Chemical Engineering Research and Design, 2020, 162, 200-211.	2.7	9
87	Mathematical Simulation of the Heat and Mass Transfer in the Movement of Liquid Droplets in a Gas Medium Under the Conditions of their Intense Phase Transformations. Journal of Engineering Physics and Thermophysics, 2020, 93, 1055-1076.	0.2	6
88	A new approach to modelling micro-explosions in composite droplets. International Journal of Heat and Mass Transfer, 2020, 161, 120238.	2.5	34
89	Influence of the Concentration of Water Droplets in an Aerosol Cloud on the Characteristics of their Collisional Interaction. Journal of Engineering Physics and Thermophysics, 2020, 93, 298-309.	0.2	6
90	Promising components of waste-derived slurry fuels. Journal of the Energy Institute, 2020, 93, 2044-2054.	2.7	3

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91	Intensification of Vaporization and Secondary Atomization of Droplets of Fire-Extinguishing Liquid Composition. Technical Physics Letters, 2020, 46, 122-125.	0.2	7
92	Influence of viscosity, surface and interfacial tensions on the liquid droplet collisions. Chemical Engineering Science, 2020, 220, 115639.	1.9	37
93	Comparing the ignition parameters of promising coal fuels. Chemical Engineering Research and Design, 2020, 139, 273-282.	2.7	17
94	Microexplosive Fragmentation of a Group of Inhomogeneous Fuel Droplets. Technical Physics Letters, 2020, 46, 473-476.	0.2	0
95	Modeling the micro-explosion of miscible and immiscible liquid droplets. Acta Astronautica, 2020, 171, 69-82.	1.7	14
96	Impact of micro-explosive atomization of fuel droplets on relative performance indicators of their combustion. Fuel Processing Technology, 2020, 201, 106334.	3.7	39
97	The Impact of Single- and Multicomponent Liquid Drops on a Heated Wall: Child Droplets. Applied Sciences (Switzerland), 2020, 10, 942.	1.3	10
98	Properties and Phase Behavior of Water-in-Diesel Microemulsion Fuels Stabilized by Nonionic Surfactants in Combination with Aliphatic Alcohol. Energy & Fuels, 2020, 34, 2135-2142.	2.5	21
99	Temperature Fields of the Droplets and Gases Mixture. Applied Sciences (Switzerland), 2020, 10, 2212.	1.3	2
100	Collision of water droplets with different initial temperatures. Powder Technology, 2020, 367, 820-830.	2.1	12
101	Micro-explosion of droplets containing liquids with different viscosity, interfacial and surface tension. Chemical Engineering Research and Design, 2020, 158, 129-147.	2.7	22
102	Comparative analysis of factors affecting differences in the concentrations of gaseous anthropogenic emissions from coal and slurry fuel combustion. Fuel, 2020, 270, 117581.	3.4	26
103	EFFECTS OF TARGET AND PROJECTILE PARAMETERS ON COLLISION CHARACTERISTICS OF WATER DROPLETS. Atomization and Sprays, 2020, 30, 171-187.	0.3	3
104	Experimental Studies of the Localization of Combustion of Forest Fuel Material Using a Water Barrier Line. , 2020, , 335-340.		0
105	A comparison of ignition characteristics of slurry fuels prepared using coal processing waste and finely divided coal. Journal of the Energy Institute, 2019, 92, 1167-1177.	2.7	10
106	Experimental research into collisions of homogeneous and multi-component liquid droplets. Chemical Engineering Research and Design, 2019, 150, 84-98.	2.7	14
107	Collisions between Liquid Drops of Various Shapes in a Gas Flow. Technical Physics Letters, 2019, 45, 267-270.	0.2	5
108	Disruption of colliding liquid droplets with different surface geometries. Powder Technology, 2019, 355, 526-534.	2.1	4

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109	Temperature and convection velocities in two-component liquid droplet until micro-explosion. Experimental Thermal and Fluid Science, 2019, 109, 109862.	1.5	20
110	Atomization of promising multicomponent fuel droplets by their collisions. Fuel, 2019, 255, 115751.	3.4	27
111	Characteristics of â€œBounceâ€•of Interacting Water Droplets. Technical Physics, 2019, 64, 796-801.	0.2	5
112	Effective incineration of fuel-waste slurries from several related industries. Environmental Research, 2019, 176, 108559.	3.7	36
113	Experimental Determination of the Fire-Break Size and Specific Water Consumption for Effective Containment and Complete Suppression of the Front Propagation of a Typical Local Wildfire. Journal of Applied Mechanics and Technical Physics, 2019, 60, 68-79.	0.1	3
114	Recovery of waste-derived and low-grade components within fuel slurries. Energy, 2019, 183, 1266-1277.	4.5	15
115	Gas-Vapor Mixture Temperature in the Near-Surface Layer of a Rapidly-Evaporating Water Droplet. Entropy, 2019, 21, 803.	1.1	0
116	Protective Lines for Suppressing the Combustion Front of Forest Fuels: Experimental Research. Chemical Engineering Research and Design, 2019, 131, 73-88.	2.7	3
117	Comparing the integral characteristics of secondary droplet atomization under different situations. International Communications in Heat and Mass Transfer, 2019, 108, 104329.	2.9	16
118	The influence of the wall microtexture on functional properties and heat transfer. Journal of Molecular Liquids, 2019, 294, 111670.	2.3	21
119	Characteristics of the Aerosol Cloud Formed during Microexplosive Fragmentation of a Two-Component Liquid Drop. Technical Physics Letters, 2019, 45, 805-808.	0.2	4
120	Effect of the Angular and Linear Parameters of Interaction of Water Droplets of Various Shapes on the Characteristics of Their Collisions. Journal of Applied Mechanics and Technical Physics, 2019, 60, 650-660.	0.1	3
121	Combined techniques of secondary atomization of multi-component droplets. Chemical Engineering Science, 2019, 209, 115199.	1.9	23
122	Micro-explosion and autoignition of composite fuel/water droplets. Combustion and Flame, 2019, 210, 479-489.	2.8	39
123	Analysis of statistical data on drop collisions in an aerosol flow during experiments. EPJ Web of Conferences, 2019, 196, 00013.	0.1	11
124	Numerical simulation of gel fuel gas-phase ignition by a local source of limited heat content. Acta Astronautica, 2019, 163, 44-53.	1.7	7
125	Characteristics of the Child-Droplets Emerged by Micro-Explosion of the Heterogeneous Droplets Exposed to Conductive, Convective and Radiative Heating. Microgravity Science and Technology, 2019, 31, 541-555.	0.7	4
126	Comparative Analysis of Interaction Modes of Two Droplets and of a Large Population in an Aerosol Cloud. Doklady Physics, 2019, 64, 97-101.	0.2	2

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127	Experimental Study of Regularities in Suppression of Flame Combustion and Thermal Decomposition of Forest Combustible Materials Using Aerosols of Different Dispersiveness. Journal of Engineering Thermophysics, 2019, 28, 43-55.	0.6	3
128	Interaction of Water Droplets in Air Flow at Different Degrees of Flow Turbulence. Journal of Engineering Thermophysics, 2019, 28, 1-13.	0.6	9
129	Collision Behavior of Heterogeneous Liquid Droplets. Microgravity Science and Technology, 2019, 31, 487-503.	0.7	18
130	Prospects of thermal power plants switching from traditional fuels to coal-water slurries containing petrochemicals. Science of the Total Environment, 2019, 671, 568-577.	3.9	32
131	Comparison of the characteristics of micro-explosion and ignition of two-fluid water-based droplets, emulsions and suspensions, moving in the high-temperature oxidizer medium. Acta Astronautica, 2019, 160, 258-269.	1.7	34
132	Breakup and explosion of droplets of two immiscible fluids and emulsions. International Journal of Thermal Sciences, 2019, 142, 30-41.	2.6	54
133	Conditions and Characteristics of High-Temperature Processes of Ebullition and Disintegration of Droplets of Water Emulsions. Journal of Engineering Physics and Thermophysics, 2019, 92, 249-259.	0.2	1
134	Heating, evaporation, fragmentation, and breakup of multi-component liquid droplets when heated in air flow. Chemical Engineering Research and Design, 2019, 146, 22-35.	2.7	23
135	Explosive disintegration of two-component drops under intense conductive, convective, and radiant heating. Applied Thermal Engineering, 2019, 152, 409-419.	3.0	36
136	SECONDARY ATOMIZATION OF FIREFIGHTING LIQUID DROPLETS BY THEIR COLLISIONS. Atomization and Sprays, 2019, 29, 429-454.	0.3	6
137	Ignition of Slurry Fuel Droplets with Different Heating Conditions. Energies, 2019, 12, 4553.	1.6	5
138	Interaction of Water and Suspension Droplets during Their Collisions in a Gas Medium. Theoretical Foundations of Chemical Engineering, 2019, 53, 769-780.	0.2	5
139	Effect of the Heating Scheme of Heterogeneous Droplets on the Characteristics of Micro-Explosion Fragmentation. Doklady Physics, 2019, 64, 384-388.	0.2	0
140	Relative combustion efficiency of composite fuels based on of wood processing and oil production wastes. Energy, 2019, 169, 18-28.	4.5	24
141	Temperature and Velocity of the Gasâ€"Vapor Mixture in the Trace of Several Evaporating Water Droplets. Journal of Heat Transfer, 2019, 141, .	1.2	6
142	Measuring the temperature of a rapidly evaporating water droplet by Planar Laser Induced Fluorescence. Measurement: Journal of the International Measurement Confederation, 2019, 135, 231-243.	2.5	18
143	Burnout rates of fuel slurries containing petrochemicals, coals and coal processing waste. Powder Technology, 2019, 343, 204-214.	2.1	28
144	Municipal solid waste recycling by burning it as part of composite fuel with energy generation. Journal of Environmental Management, 2019, 231, 896-904.	3.8	33

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145	Advantages of switching coal-burning power plants to coal-water slurries containing petrochemicals. Applied Thermal Engineering, 2019, 147, 998-1008.	3.0	37
146	Recent advances in co-thermochemical conversions of biomass with fossil fuels focusing on the synergistic effects. Renewable and Sustainable Energy Reviews, 2019, 103, 384-398.	8.2	108
147	Impact of environmentally attractive additives on the ignition delay times of slurry fuels: Experimental study. Fuel, 2019, 238, 275-288.	3.4	27
148	Experimental researches of the effect of vegetable oil addition on the emissions during combustion of coal liquid fuels. Thermal Science, 2019, 23, 1237-1249.	0.5	4
149	The ignition dynamics of the water-filled fuel compositions. Fuel Processing Technology, 2018, 174, 26-32.	3.7	16
150	Using Planar Laser Induced Fluorescence to explore the mechanism of the explosive disintegration of water emulsion droplets exposed to intense heating. International Journal of Thermal Sciences, 2018, 127, 126-141.	2.6	49
151	Mathematical model simulating the ignition of a droplet of coal water slurry containing petrochemicals. Energy, 2018, 150, 262-275.	4.5	25
152	Influence of the initial temperature of coal water slurries containing petrochemicals on their ignition characteristics. Applied Thermal Engineering, 2018, 138, 591-602.	3.0	9
153	Computational modeling of the combustion of coal water slurries containing petrochemicals. Fuel, 2018, 220, 109-119.	3.4	17
154	Experimental and numerical study of coal dust ignition by a hot particle. Applied Thermal Engineering, 2018, 133, 774-784.	3.0	35
155	Environmental benefits and drawbacks of composite fuels based on industrial wastes and different ranks of coal. Journal of Hazardous Materials, 2018, 347, 359-370.	6.5	29
156	Major gas emissions from combustion of slurry fuels based on coal, coal waste, and coal derivatives. Journal of Cleaner Production, 2018, 177, 284-301.	4.6	74
157	Unsteady temperature fields of evaporating water droplets exposed to conductive, convective and radiative heating. Applied Thermal Engineering, 2018, 131, 340-355.	3.0	62
158	Evaporation of Water Droplets Moving Through High-Temperature Gases. Journal of Engineering Physics and Thermophysics, 2018, 91, 97-103.	0.2	2
159	Vaporization of water droplets with non-metallic inclusions of different sizes in a high-temperature gas. International Journal of Thermal Sciences, 2018, 127, 360-372.	2.6	7
160	Water drops with graphite particles triggering the explosive liquid breakup. Experimental Thermal and Fluid Science, 2018, 96, 154-161.	1.5	10
161	Coal-water slurries containing petrochemicals to solve problems of air pollution by coal thermal power stations and boiler plants: An introductory review. Science of the Total Environment, 2018, 613-614, 1117-1129.	3.9	78
162	Energy efficiency and environmental aspects of the combustion of coal-water slurries with and without petrochemicals. Journal of Cleaner Production, 2018, 172, 1730-1738.	4.6	47

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163	Using Planar Laser Induced Fluorescence to explain the mechanism of heterogeneous water droplet boiling and explosive breakup. Experimental Thermal and Fluid Science, 2018, 91, 103-116.	1.5	30
164	Light-induced gasification of the coal-processing waste: Possible products and regimes. Fuel, 2018, 212, 347-352.	3.4	10
165	Experimental evaluation of main emissions during coal processing waste combustion. Environmental Pollution, 2018, 233, 299-305.	3.7	20
166	Motion of water droplets in the counter flow of high-temperature combustion products. Heat and Mass Transfer, 2018, 54, 193-207.	1.2	12
167	Impact of Forest Fuels on Gas Emissions in Coal Slurry Fuel Combustion. Energies, 2018, 11, 2491.	1.6	16
168	Impact of Holder Materials on the Heating and Explosive Breakup of Two-Component Droplets. Energies, 2018, 11, 3307.	1.6	34
169	Conditions for Explosive Disintegration of Inhomogeneous Water Droplets on High-Temperature Heating. Journal of Engineering Physics and Thermophysics, 2018, 91, 1496-1504.	0.2	0
170	Effect of Specific Water Consumption on Suppression of Combustion and Thermal Decomposition of Forest Combustible Materials. Doklady Physics, 2018, 63, 508-512.	0.2	1
171	USING PLANAR LASER-INDUCED FLUORESCENCE TO STUDY THE PHASE TRANSFORMATIONS OF TWO-COMPONENT LIQUID AND SUSPENSION DROPLETS. Interfacial Phenomena and Heat Transfer, 2018, 6, 377-389.	0.3	1
172	Explosive Decay of Emulsion Drops Based on Water and Oil Products under Conditions of High-Temperature Purification of Liquids. Doklady Physics, 2018, 63, 462-466.	0.2	4
173	Industrial Waste as Part of Coalâ€"Water Slurry Fuels. Energy & Fuels, 2018, 32, 11398-11410.	2.5	27
174	An explosive disintegration of heated fuel droplets with adding water. Chemical Engineering Research and Design, 2018, 140, 292-307.	2.7	25
175	Extinguishing a Ground Forest Fire by Spraying Water Over its Edge. Journal of Engineering Physics and Thermophysics, 2018, 91, 758-765.	0.2	4
176	Deformation of a Droplet of an Organic Waterâ€"Coal Fuel in a Gas Flow. Journal of Applied Mechanics and Technical Physics, 2018, 59, 653-661.	0.1	4
177	Temperature and velocity fields of the gas-vapor flow near evaporating water droplets. International Journal of Thermal Sciences, 2018, 134, 337-354.	2.6	21
178	Research of temperature fields and convection velocities in evaporating water droplets using Planar Laser-Induced Fluorescence and Particle Image Velocimetry. Experimental Thermal and Fluid Science, 2018, 97, 392-407.	1.5	58
179	Differences in ignition and combustion characteristics of waste-derived oil-water emulsions and coal-water slurries containing petrochemicals. Fuel Processing Technology, 2018, 179, 407-421.	3.7	39
180	The influence of key factors on the heat and mass transfer of a sessile droplet. Experimental Thermal and Fluid Science, 2018, 99, 59-70.	1.5	54

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