Chi-Min Shu

List of Publications by Year
in descending order

273 papers	7,882 citations	50273 46 h-index	98792 67 g-index
273 all docs	273 docs citations	273 times ranked	2935 citing authors

#	Article	IF	Citations
1	Spontaneous Combustion Risk of Coal-based Activated Carbon. Combustion Science and Technology, 2023, 195, 47-63.	2.3	5
2	Thermokinetic model establishment and numerical simulation of 2,4,6-trinitrophenol based on eco-friendly synthesis method. Journal of Energetic Materials, 2023, 41, 530-549.	2.0	5
3	Effect of emulsifiers on the thermal stability of firework propellants. Journal of Thermal Analysis and Calorimetry, 2023, 148, 4959-4967.	3.6	6
4	Thermokinetic Characteristics of Jurassic Coal Spontaneous Combustion Based on Thermogravimetric Analysis. Combustion Science and Technology, 2022, 194, 1527-1541.	2.3	5
5	Exploring thermokinetic behaviour of Jurassic coal during pyrolysis and oxidation. Journal of Thermal Analysis and Calorimetry, 2022, 147, 1439-1453.	3.6	6
6	Oxidation and thermal stability analysis of hexadecyl mercaptan added to engine oil. Journal of Thermal Analysis and Calorimetry, 2022, 147, 4685-4696.	3.6	3
7	Determination of the ambience duration of lavender essential oil with three perfume fixatives using the thermokinetics approach. Journal of Thermal Analysis and Calorimetry, 2022, 147, 7551-7561.	3.6	5
8	Thermokinetic analysis of the stability of acetic anhydride hydrolysis in isothermal calorimetry techniques. Journal of Thermal Analysis and Calorimetry, 2022, 147, 7865-7873.	3.6	14
9	Coupling effect of operational factors on heat extraction from a coal pile using a two-phase closed thermosyphon. Energy, 2022, 239, 122371.	8.8	23
10	Microstructure of coal spontaneous combustion in low-oxygen atmospheres at characteristic temperatures. Fuel, 2022, 309, 122132.	6.4	56
11	Thermal hazards analysis for benzoyl peroxide in the presence of hexanoic acid. Chemical Engineering Research and Design, 2022, 157, 208-217.	5.6	31
12	Calorimetric evaluation of thermal stability and runaway hazard based on thermokinetic parameters of O,Oâ€“dimethyl phosphoramidothioate. Journal of Loss Prevention in the Process Industries, 2022, 75, 104697.	3.3	29
13	Investigative calorimetric studies and kinetic parameters estimation using analytical methods for self-reactive hazardous chemicals in a chemical manufacturing plant. Journal of Loss Prevention in the Process Industries, 2022, 76, 104743.	3.3	3
14	Effect of the initial oxidized status of coal dust on the deflagration severities and flame behaviors of pulverized coal explosion in various methane-air atmospheres. Fuel, 2022, 315, 123211.	6.4	22
15	Hazard assessment of the thermal stability of nitrification by-products by using an advanced kinetic model. Chemical Engineering Research and Design, 2022, 160, 91-101.	5.6	33
16	Experimental investigation of the macroscopic characteristic parameters and microstructure of water-soaked coal during low-temperature oxidation. Journal of Thermal Analysis and Calorimetry, 2022, 147, 9711-9723.	3.6	12
17	Experimental study on explosion behavior of propane-dimethyl ether blends. Journal of Loss Prevention in the Process Industries, 2022, 77, 104777.	3.3	3
18	Gas-heat characteristics and oxidation kinetics of coal spontaneous combustion in heating and decaying processes. Energy, 2022, 250, 123810.	8.8	29

#	Article	IF	Citations
19	A Series of Novel Flame Retardants Produced with Nanosilica, Melamine, and Aluminum Diethylphosphinate to Improve the Flame Retardancy of Phenolic Resin. ACS Omega, 2022, 7, 16980-16989.	3.5	3
20	Thermokinetic prediction and safety evaluation for toluene sulfonation process and product using calorimetric technology. Journal of Thermal Analysis and Calorimetry, 2022, 147, 12177-12186.	3.6	10
21	A Method to Derive the Characteristic and Kinetic Parameters of 1,1-Bis(tert-butylperoxy)cyclohexane from DSC Measurements. Processes, 2022, 10, 1026.	2.8	1
22	Pyrolysis characteristics and kinetics of polymethylmethacrylate-based polymer electrolytes for lithium-ion battery. Journal of Thermal Analysis and Calorimetry, 2022, 147, 12019-12032.	3.6	3
23	Kinetic characteristics analysis of lignite using differential evolution algorithm: Optimisation model in various reaction mechanisms. Fuel, 2022, 327, 125116.	6.4	3
24	Intrinsic Characteristics Combined with Gaseous Products and Active Groups of Coal under Low-Temperature Oxidation. Combustion Science and Technology, 2021, 193, 2623-2642.	2.3	8
25	Transient process simulation of a thermal explosion at a propylene purification unit using calorimetric techniques. Chemical Engineering Journal, 2021, 413, 127505.	12.7	3
26	Isokinetic analysis on the oxidation of Jurassic coal: a case study of samples from Xinjiang, China. Journal of Thermal Analysis and Calorimetry, 2021, 144, 261-272.	3.6	3
27	Volatilisation rate of pure and mixed flammable liquids: Examples of diethyl ether and nitromethane. Fuel, 2021, 290, 119853.	6.4	4
28	Temperature effects on thermal diffusivity of bituminous coal using different pre-oxidation levels in a nitrogenous atmosphere. Fuel, 2021, 288, 119640.	6.4	20
29	The graded warning method of coal spontaneous combustion in Tangjiahui Mine. Fuel, 2021, 288, 119635.	6.4	50
30	Critical particle size analysis of gas emission under high-temperature oxidation of weathered coal. Energy, 2021, 214, 118995.	8.8	56
31	Comparative analysis of exothermic behaviour of fresh and weathered coal during low-temperature oxidation. Fuel, 2021, 289, 119942.	6.4	57
32	Macrocharacteristics of gaseous indicator products and exothermicity during low-temperature oxidation of samples from different regions of the same coal seam from Huainan, Anhui, China. Journal of Thermal Analysis and Calorimetry, 2021, 143, 781-794.	3.6	2
33	Thermokinetics behaviour and parameters for spontaneous combustion of carbonised powders and oxidised powders from preparation of coal-based activated carbon. Journal of Thermal Analysis and Calorimetry, 2021, 144, 415-424.	3.6	4
34	Self-ignition risk classification for coal dust layers of three coal types on a hot surface. Energy, 2021, 216, 119197.	8.8	26
35	Calorimetric approach to establishing thermokinetics for cosmeceutical benzoyl peroxides containing metal ions. Journal of Thermal Analysis and Calorimetry, 2021, 144, 373-382.	3.6	34
36	Effect of oxygen concentration on combustion residues of polymerised styrene-butadiene rubber 1502. Journal of Thermal Analysis and Calorimetry, 2021, 144, 515-523.	3.6	0

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37	Advanced Calorimetric Technology for the Kinetic and Thermal Safety Analysis of Tert-butylperoxy-3,5, 5-trimethylhexanoate. , 2021, , 151-164.		0
38	Influence of element composition and microcrystalline structure on thermal properties of bituminous coal under nitrogen atmosphere. Chemical Engineering Research and Design, 2021, 147, 846-856.	5.6	12
39	Evaluation of the dust potential hazard of thermal power plants through coal dust combustion and explosion characteristics. Journal of Thermal Analysis and Calorimetry, 2021, 144, 575-585.	3.6	2
40	Testing inhibitory effects of a panel of ionic liquids on differing phases of coal spontaneous combustion. Journal of Thermal Analysis and Calorimetry, 2021, 144, 479-492.	3.6	4
41	Thermal extraction from a low-temperature stage of coal pile spontaneous combustion by two-phase closed thermosyphon. Journal of Thermal Analysis and Calorimetry, 2021, 144, 587-597.	3.6	8
42	Autocatalytic decomposition properties and thermal decomposition of benzoyl peroxide. Journal of Thermal Analysis and Calorimetry, 2021, 146, 2601-2611.	3.6	9
43	Explosion venting hazards of temperature effects and pressure characteristics for premixed hydrogen-air mixtures in a spherical container. Fuel, 2021, 290, 120034.	6.4	90
44	Influence of thermal environment on metallographic structure characteristics of the electric arc bead pattern. Journal of Loss Prevention in the Process Industries, 2021, 70, 104426.	3.3	6
45	Modeling thermal analysis for predicting thermal hazards relevant to transportation safety and runaway reaction for 2,2â€²-azobis(isobutyronitrile). Journal of Loss Prevention in the Process Industries, 2021, 70, 104403.	3.3	8
46	Inhibiting effects by Fe2O3 on combustion and explosion characteristics of ABS resin. Journal of Loss Prevention in the Process Industries, 2021, 70, 104429.	3.3	3
47	Predictive ability of four statistical models for determining the influence of coal thermophysical properties during the initial phase of coal spontaneous combustion. Fuel, 2021, 292, 120348.	6.4	13
48	Effects of 1-butyl-3-metylimidazolium tetrafluoroborate on the thermal hazard of triacetone triperoxide (TATP). Chemical Engineering Research and Design, 2021, 149, 518-525.	5.6	15
49	Comprehensive index evaluation of the spontaneous combustion capability of different ranks of coal. Fuel, 2021, 291, 120087.	6.4	47
50	Fractal characteristics of methane migration channels in inclined coal seams. Energy, 2021, 225, 120127.	8.8	18
51	Correction model for CO detection in the coal combustion loss process in mines based on GWO-SVM. Journal of Loss Prevention in the Process Industries, 2021, 71, 104439.	3.3	26
52	Explosion prevention and weighting analysis on the inerting effect of methane via grey entropy model. Journal of Loss Prevention in the Process Industries, 2021, 71, 104385.	3.3	2
53	Effect of oxidation temperature and oxygen concentration on macro characteristics of pre-oxidised coal spontaneous combustion process. Energy, 2021, 227, 120431.	8.8	62
54	Encapsulating toxic Rhodamine 6G dye, and Cr (VI) metal ions from liquid phase using AlPO4-5 molecular sieves. Preparation, characterization, and adsorption parameters. Journal of Molecular Liquids, 2021, 336, 116549.	4.9	12

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55	Coal bottom ash derived zeolite (SSZ-13) for the sorption of synthetic anion Alizarin Red S (ARS) dye. Journal of Hazardous Materials, 2021, 416, 125925.	12.4	39
56	A novel methodology for evaluating the inhibitory effect of chloride salts on the ignition risk of coal spontaneous combustion. Energy, 2021, 231, 121093.	8.8	30
57	Macrocharacteristics and the inhibiting effect of coal spontaneous combustion with various treatment durations of ionic liquids. Thermochimica Acta, 2021, 703, 179012.	2.7	19
58	Essential hazard and process safety assessment of para-toluene sulfonic acid through calorimetry and advanced thermokinetics. Journal of Loss Prevention in the Process Industries, 2021, 72, 104558.	3.3	32
59	Hazard evaluation, explosion risk, and thermal behaviour of magnesium- aluminium alloys during the polishing process by using a 20-L apparatus, MIEA, and TGA. Chemical Engineering Research and Design, 2021, 153, 268-277.	5.6	18
60	Effectiveness and application of modified wind turbine coating: Adding ionic liquids to titanium dioxide and diatomaceous earth. Journal of Loss Prevention in the Process Industries, 2021, 72, 104566.	3.3	3
61	Nanofluidic two-phase closed thermosyphon-assisted thermoelectric generator for heat recovery from coal spontaneous combustion. Applied Thermal Engineering, 2021, 197, 117397.	6.0	12
62	An improved two-colour pyrometer based method for measuring dynamic temperature mapping of hydrogen-air combustion. International Journal of Hydrogen Energy, 2021, 46, 34463-34468.	7.1	11
63	Under-expansion jet flame propagation characteristics of premixed H2/air in explosion venting. International Journal of Hydrogen Energy, 2021, 46, 38913-38922.	7.1	77
64	Synergistic acceleration effect of coal spontaneous combustion caused by moisture and associated pyrite. Fuel, 2021, 304, 121458.	6.4	12
65	Study on thermal stability and thermal decomposition mechanism of 1-((cyano-1-methylethyl) azo) formamide. Chemical Engineering Research and Design, 2021, 155, 219-229.	5.6	14
66	Evaluation of thermal reaction for two azo compounds by using 20-L apparatus and calorimetry. Journal of Loss Prevention in the Process Industries, 2021, 73, 104587.	3.3	5
67	Energy stability prediction strategy for polymer electrolyte lithium batteries based upon an improved kinetic programming algorithm. Energy Reports, 2021, 7, 6600-6614.	5.1	2
68	Recycling furnace slag and fly ash from industrial byproducts to produce slag/ash based zeolite as a new adsorbent material. Science Progress, 2021, 104, 003685042210867.	1.9	1
69	Thermal hazard evaluation on spontaneous combustion characteristics of nitrocellulose solution under different atmospheric conditions. Scientific Reports, 2021, 11, 24053.	3.3	15
70	Effects of particle size on the self-ignition behaviour of a coal dust layer on a hot plate. Fuel, 2020, 260, 116269.	6.4	40
71	Safety evaluation of different acids in high-density polyethylene container loading. Journal of Loss Prevention in the Process Industries, 2020, 63, 103991.	3.3	2
72	Dynamic hazard evaluation of explosion severity for premixed hydrogenâ€“air mixtures in a spherical pressure vessel. Fuel, 2020, 261, 116433.	6.4	87

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73	Prediction indices and limiting parameters of coal spontaneous combustion in the Huainan mining area in China. Fuel, 2020, 264, 116883.	6.4	47
74	Concealed risk in catalytic processes: How weather can initiate a catastrophe in an ethylbenzene-producing tower. Chemical Engineering Journal, 2020, 391, 123474.	12.7	1
75	Microcharacteristic analysis of CH4 emissions under different conditions during coal spontaneous combustion with high-temperature oxidation and in situ FTIR. Energy, 2020, 209, 118494.	8.8	88
76	Thermokinetic behaviour and functional group variation during spontaneous combustion of raw coal and its preoxidised form. RSC Advances, 2020, 10, 24472-24482.	3.6	10
77	Synthesis of novel ZSM-22 zeolite from Taiwanese coal fly ash for the selective separation of Rhodamine 6G. Journal of Materials Research and Technology, 2020, 9, 15381-15393.	5.8	23
78	Mathematical method for polymerised styrene butadiene rubber 1502 pyrolysis residue and gasoline differentiation. Journal of Thermal Analysis and Calorimetry, 2020, 142, 685-694.	3.6	3
79	Effect of separation distance on gas dispersion and vapor cloud explosion in a storage tank farm determined using computational fluid dynamics. Journal of Loss Prevention in the Process Industries, 2020, 68, 104282.	3.3	12
80	Effects of Moisture and Associated Pyrite on the Microstructure of Anthracite Coal for Spontaneous Combustion. ACS Omega, 2020, 5, 27607-27617.	3.5	8
81	Using thermal analysis with kinetic calculation method to assess the thermal stability of 2-cyanopropan-2-yliminourea. Journal of Loss Prevention in the Process Industries, 2020, 64, 104084.	3.3	6
82	Overview of commonly used materials for coal spontaneous combustion prevention. Fuel, 2020, 275, 117981.	6.4	110
83	Prediction and assessment of fly-up type of fireworks by thermokinetics model. Journal of Thermal Analysis and Calorimetry, 2020, 142, 927-936.	3.6	3
84	Effect of water immersion on active functional groups and characteristic temperatures of bituminous coal. Energy, 2020, 205, 118076.	8.8	67
85	Experimental study of thermophysical properties of coal gangue at initial stage of spontaneous combustion. Journal of Hazardous Materials, 2020, 400, 123251.	12.4	30
86	Thermal hazard analysis and initial decomposition mechanism of 5-(4-pyridyl)tetrazolate-methylene tetrazole. Fuel, 2020, 269, 117434.	6.4	14
87	A generalized differential method to calculate lumped kinetic triplet of the nth order model for the global one-step heterogeneous reaction using TG data. Journal of Loss Prevention in the Process Industries, 2020, 64, 104094.	3.3	14
88	Effects of FeS2 on the process of coal spontaneous combustion at low temperatures. Chemical Engineering Research and Design, 2020, 142, 165-173.	5.6	36
89	Experimental investigation on using ionic liquid to control spontaneous combustion of lignite. Chemical Engineering Research and Design, 2020, 142, 138-149.	5.6	76
90	Study of combustion behaviour and kinetics modelling of Chinese Gongwusu coal gangue: Model-fitting and model-free approaches. Fuel, 2020, 268, 117284.	6.4	77

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91	Hazard evaluation of explosion venting behaviours for premixed hydrogen-air fuels with different bursting pressures. Fuel, 2020, 268, 117313.	6.4	87
92	Inconsistencies of e-waste management in developing nations â€“ Facts and plausible solutions. Journal of Environmental Management, 2020, 261, 110234.	7.8	102
93	Thermal stability and flammability assessment of 1-ethyl-2, 3-dimethylimidazolium nitrate. Chemical Engineering Research and Design, 2020, 135, 219-227.	5.6	24
94	Effects of oxygen concentrations on the coal oxidation characteristics and functional groups. Journal of Thermal Analysis and Calorimetry, 2020, 142, 899-912.	3.6	26
95	Thermal decomposition characteristics of diethyl azodicarboxylate dissolved in three ionic liquids as solvents. Journal of Molecular Liquids, 2020, 302, 112564.	4.9	2
96	Analysis and characterisation of 1-butyl-3-methylimidazolium hexafluorophosphate as a humectant of nitrocellulose. Journal of Molecular Liquids, 2020, 303, 112617.	4.9	8
97	State of health prediction model based on internal resistance. International Journal of Energy Research, 2020, 44, 6502-6510.	4.5	32
98	Effects of 1-butyl-3-methylimidazolium tetrafluoroborate on the exothermic and heat transfer characteristics of coal during low-temperature oxidation. Fuel, 2020, 273, 117589.	6.4	28
99	Combustion behaviors and explosibility of suspended metal hydride TiH2 dust. International Journal of Hydrogen Energy, 2020, 45, 12216-12224.	7.1	16
100	Thermal hazard analysis of 1-((cyano-1-methylethyl) azo) formamide and effect of incompatible substances on its thermal decomposition. Journal of Loss Prevention in the Process Industries, 2020, 65, 104098.	3.3	14
101	Effects of ionic liquids on the chemical structure and exothermic properties of lignite. Journal of Molecular Liquids, 2020, 309, 113019.	4.9	35
102	Incompatible effects of specific acids on the thermokinetics of 1,1-bis(tert-butylperoxy)-3,3,5-trimethylcyclohexane. Journal of Thermal Analysis and Calorimetry, 2019, 135, 2747-2757.	3.6	3
103	Treating bituminous coal with ionic liquids to inhibit coalÂspontaneous combustion. Journal of Thermal Analysis and Calorimetry, 2019, 135, 2711-2721.	3.6	34
104	Forced-air cooling system for large-scale lithium-ion battery modules during charge and discharge processes. Journal of Thermal Analysis and Calorimetry, 2019, 135, 2891-2901.	3.6	40
105	Effects of 1-butyl-3-methylimidazolium tetrafluoroborate and the oxygen concentration on the spontaneous combustion of coal. Journal of Thermal Analysis and Calorimetry, 2019, 138, 3445-3454.	3.6	7
106	Thermal hazards of benzoyl peroxide and its derived process products through theoretical thermodynamics assessment and different calorimetric technologies. Journal of Hazardous Materials, 2019, 380, 120891.	12.4	27
107	Minimum ignition temperature of aluminium dust clouds via the Godbertâ€“Greenwald furnace. Chemical Engineering Research and Design, 2019, 129, 176-183.	5.6	28
108	Thermal stability evaluation of multiple tubes of fireworks by calorimetry approaches. Journal of Thermal Analysis and Calorimetry, 2019, 138, 2883-2890.	3.6	9

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109	Thermal risk assessment of tert-butylperoxy-2-ethylhexyl carbonate for storage and transport. Journal of Thermal Analysis and Calorimetry, 2019, 138, 2891-2900.	3.6	8
110	Oxidative stability, thermal hazard analysis, and decomposition kinetics of 1-methylimidazolium nitrate via DSC, TGA, and GC/MS. Journal of Thermal Analysis and Calorimetry, 2019, 138, 3403-3413.	3.6	5
111	Effects of 1-butyl-3-methylimidazolium nitrate on the thermal hazardous properties of lignitous and long flame coal through a green approach and thermokinetic models. Chemical Engineering Research and Design, 2019, 131, 127-134.	5.6	17
112	Thermal hazard assessment of the thermal stability of acne cosmeceutical therapy using advanced calorimetry technology. Chemical Engineering Research and Design, 2019, 131, 197-204.	5.6	54
113	Experimental data revealing explosion characteristics of methane, air, and coal mixtures. RSC Advances, 2019, 9, 24627-24637.	3.6	9
114	Inhibiting effects of 1-butyl-3-methyl imidazole tetrafluoroborate on coal spontaneous combustion under different oxygen concentrations. Energy, 2019, 186, 115907.	8.8	58
115	Thermal effect of ionic liquids on coal spontaneous combustion. Journal of Thermal Analysis and Calorimetry, 2019, 138, 3415-3424.	3.6	11
116	Evaluation of thermal hazards based on thermokinetic parameters of 2-(1-cyano-1-methylethyl)azocarboxamide by ARC and DSC. Journal of Thermal Analysis and Calorimetry, 2019, 138, 2873-2881.	3.6	16
117	Assessing the effectiveness of a high-temperature-programmed experimental system for simulating the spontaneous combustion properties of bituminous coal through thermokinetic analysis of four oxidation stages. Energy, 2019, 169, 587-596.	8.8	128
118	Thermogravimetric analysis of the effects of four ionic liquids on the combustion characteristics and kinetics of weak caking coal. Journal of Molecular Liquids, 2019, 277, 876-885.	4.9	37
119	Using thermal analysis and kinetics calculation method to assess the thermal stability of azobisdimethylvaleronitrile. Journal of Thermal Analysis and Calorimetry, 2019, 138, 2853-2863.	3.6	9
120	Thermophysical properties of coal during low temperature oxidation under different oxygen concentrations. Thermochimica Acta, 2019, 676, 186-197.	2.7	18
121	Correlation analysis of the functional groups and exothermic characteristics of bituminous coal molecules during high-temperature oxidation. Energy, 2019, 181, 136-147.	8.8	137
122	Gases and thermal behavior during high-temperature oxidation of weathered coal. Journal of Thermal Analysis and Calorimetry, 2019, 138, 1573-1582.	3.6	11
123	Solid thermal explosion of autocatalytic material based on nonisothermal experiments: Multistage evaluations for 2,2â€²â€azobis(2â€methylpropionitrile) and 1,1â€²â€azobis(cyclohexanecarbonitrile). Process Safety Progress, 2019, 38, e12058.	1.0	12
124	Low-temperature exothermic oxidation characteristics and spontaneous combustion risk of pulverised coal. Fuel, 2019, 252, 238-245.	6.4	61
125	Complex thermal analysis and runaway reaction of 2,2â€²-azobis (isobutyronitrile) using DSC, STA, VSP2, and GC/MS. Journal of Loss Prevention in the Process Industries, 2019, 60, 87-95.	3.3	26
126	Effectiveness of a high-temperature-programmed experimental system in simulating particle size effects on hazardous gas emissions in bituminous coal. Safety Science, 2019, 115, 353-361.	4.9	26

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127	Thermal Decomposition and Nonisothermal Kinetics of Monoethanolamine Mixed with Various Metal Ions. Scientific Reports, 2019, 9, 1592.	3.3	7
128	Progressive utilisation prospects of coal fly ash: A review. Science of the Total Environment, 2019, 672, 951-989.	8.0	321
129	Prevention of green energy loss: Estimation of fire hazard potential in wind turbines. Renewable Energy, 2019, 140, 62-69.	8.9	10
130	Effects of imidazole ionic liquid on macroparameters and microstructure of bituminous coal during low-temperature oxidation. Fuel, 2019, 246, 160-168.	6.4	55
131	Thermokinetic characteristics of coal spontaneous combustion based on thermogravimetric analysis. Fuel, 2019, 250, 235-244.	6.4	95
132	Kinetic modeling for thermal hazard of 2,2â€²-azobis (2-methylpropionamide) dihydrochloride using calorimetric approach and simulation. Journal of Thermal Analysis and Calorimetry, 2019, 137, 1021-1030.	3.6	5
133	Experimental and numerical investigation of the influence of laterally sprayed water mist on a methane-air jet flame. Chemical Engineering Journal, 2019, 356, 554-569.	12.7	18
134	Experimental and numerical simulation study of the thermal hazards of four azo compounds. Journal of Hazardous Materials, 2019, 365, 164-177.	12.4	73
135	Increased flammability hazard when ionic liquid [C6mim][Cl] is exposed to high temperatures. Journal of Hazardous Materials, 2019, 367, 407-417.	12.4	19
136	Thermophysical parameters of coal with various levels of preoxidation. Journal of Thermal Analysis and Calorimetry, 2019, 135, 2819-2829.	3.6	24
137	Thermokinetic Behavior and Microcharacterization during the Spontaneous Combustion of 1/3 Coking Coal. Combustion Science and Technology, 2019, 191, 1769-1788.	2.3	9
138	Potential explosion hazard of polyester resin dust formed from a granulation process: Limiting oxygen concentration with different pressures. Applied Thermal Engineering, 2018, 135, 74-82.	6.0	26
139	Application of thermal ignition theory of di(2,4-dichlorobenzoyl) peroxide by kinetic-based curve fitting. Journal of Thermal Analysis and Calorimetry, 2018, 133, 753-761.	3.6	13
140	Effects of mixing malic acid and salicylic acid with metal oxides in medium- to low-temperature isothermal conditions, as determined using the thermal activity monitor IV. Journal of Thermal Analysis and Calorimetry, 2018, 133, 779-784.	3.6	13
141	Thermokinetic analysis of the stability of malic and salicylic acids in cosmeceutical formulations containing metal oxides. Journal of Thermal Analysis and Calorimetry, 2018, 132, 165-172.	3.6	15
142	Reaction simulation of multistage evaluations for AMBN based on DSC experiments. Thermochimica Acta, 2018, 661, 18-26.	2.7	21
143	A new numerical method to predict the growth temperature of spontaneous combustion of 1/3 coking coal. Applied Thermal Engineering, 2018, 131, 221-229.	6.0	32
144	Multiapproach thermodynamic and kinetic characterization of the thermal hazards of 2,2â€²-azobis(2-methylpropionate) alone and when mixed with several solvents. Journal of Loss Prevention in the Process Industries, 2018, 51, 150-158.	3.3	29

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145	Effects on the activities of coal microstructure and oxidation treated by imidazolium-based ionic liquids. Journal of Thermal Analysis and Calorimetry, 2018, 133, 453-463.	3.6	37
146	Process safety evaluation of the synthesis of tert-butyl peracetate. Journal of Loss Prevention in the Process Industries, 2018, 54, 153-162.	3.3	24
147	Inhibiting effect of imidazolium-based ionic liquids on the spontaneous combustion characteristics of lignite. Fuel, 2018, 217, 508-514.	6.4	39
148	Combustion of 1-butylimidazolium nitrate via DSC, TG, VSP2, FTIR, and GC/MS: An approach for thermal hazard, property and prediction assessment. Chemical Engineering Research and Design, 2018, 116, 603-614.	5.6	42
149	Comparison of the inhibition mechanisms of five types of inhibitors on spontaneous coal combustion. International Journal of Energy Research, 2018, 42, 1158-1171.	4.5	54
150	Inhibition of spontaneous combustion for different metamorphic degrees of coal using Zn/Mg/Alâ€“CO3 layered double hydroxides. Chemical Engineering Research and Design, 2018, 113, 401-412.	5.6	46
151	Integrated self-assessment module for fire rescue safety in a chemical plant â€“ A case study. Journal of Loss Prevention in the Process Industries, 2018, 51, 137-149.	3.3	8
152	Thermal diffusivity of coal and its predictive model in nitrogen and air atmospheres. Applied Thermal Engineering, 2018, 130, 1233-1245.	6.0	16
153	Using thermal analysis and kinetic calculation method to assess the thermal stability of 2,2â€²-azobis-(2-methylbutyronitrile). Journal of Thermal Analysis and Calorimetry, 2018, 131, 545-553.	3.6	13
154	Thermal analysis on potential risk of cosmetic materials by DSC. MATEC Web of Conferences, 2018, 169, 01009.	0.2	1
155	Effects of UV for Cycloaliphatic Epoxy Resin via Thermokinetic Models, Novel Calorimetric Technology, and Thermogravimetric Analysis. Scientific Reports, 2018, 8, 15835.	3.3	3
156	Thermal hazard assessment of TMCH mixed with inorganic acids. MATEC Web of Conferences, 2018, 169, 01017.	0.2	1
157	Thermal decomposition of imidazolium-based ionic liquid binary mixture: Processes and mechanisms. Journal of Molecular Liquids, 2018, 272, 37-42.	4.9	30
158	Thermal properties of coals with different metamorphic levels in air atmosphere. Applied Thermal Engineering, 2018, 143, 542-549.	6.0	34
159	Evaluation for the thermokinetics of the autocatalytic reaction of cumene hydroperoxide mixed with phenol through isothermal approaches and simulations. Chemical Engineering Research and Design, 2018, 117, 426-438.	5.6	30
160	Comparative analysis of thermokinetic behavior and gaseous products between first and second coal spontaneous combustion. Fuel, 2018, 227, 325-333.	6.4	128
161	Inhibiting effects of three commercial inhibitors in spontaneous coal combustion. Energy, 2018, 160, 1174-1185.	8.8	107
162	Flame propagation behaviors and influential factors of TiH2 dust explosions at a constant pressure. International Journal of Hydrogen Energy, 2018, 43, 16355-16363.	7.1	31

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163	Calorimetric investigation of a thermal hazard accident involving the heat insulation material in a crude oil piping system. Journal of Loss Prevention in the Process Industries, 2018, 56, 170-180.	3.3	2
164	Thermal behavior and microcharacterization analysis of second-oxidized coal. Journal of Thermal Analysis and Calorimetry, 2017, 127, 439-448.	3.6	73
165	Combustion properties of coal gangue using thermogravimetryâ€“Fourier transform infrared spectroscopy. Applied Thermal Engineering, 2017, 116, 244-252.	6.0	106
166	Thermal stability simulations of 1,1-bis(tert-butylperoxy)-3,3,5 trimethylcyclohexane mixed with metal ions. Journal of Thermal Analysis and Calorimetry, 2017, 130, 949-957.	3.6	15
167	Comprehensive runaway kinetic analysis and validation of three azo compounds using calorimetric approach and simulation. Journal of Loss Prevention in the Process Industries, 2017, 49, 970-982.	3.3	30
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