Qiang Xu

List of Publications by Year
in descending order

34 papers	743 citations	516710 16 h-index	552781 26 g-index
34 all docs	34 docs citations	34 times ranked	759 citing authors

#	Article	IF	Citations
1	The need for fully bio-based facemasks to counter coronavirus outbreaks: A perspective. Science of the Total Environment, 2020, 736, 139611.	8.0	131
2	Experimental and theoretical study on thermal kinetics and reactive mechanism of nitrocellulose pyrolysis by traditional multi kinetics and modeling reconstruction. Journal of Hazardous Materials, 2020, 386, 121645.	12.4	59
3	A Review on the Flammability Properties of Carbon-Based Polymeric Composites: State-of-the-Art and Future Trends. Polymers, 2020, 12, 1518.	4.5	53
4	The Flame Retardancy of Polyethylene Composites: From Fundamental Concepts to Nanocomposites. Molecules, 2020, 25, 5157.	3.8	46
5	Correlation analysis of cone calorimetry test data assessment of the procedure with tests of different polymers. Journal of Thermal Analysis and Calorimetry, 2012, 110, 65-70.	3.6	41
6	Application of Adaptive Neuro-Fuzzy Inference System in Flammability Parameter Prediction. Polymers, 2020, 12, 122.	4.5	39
7	Model reference adaptive tracking control for hydraulic servo systems with nonlinear neural-networks. ISA Transactions, 2020, 100, 396-404.	5.7	33
8	Fire safety evaluation of expanded polystyrene foam by multi-scale methods. Journal of Thermal Analysis and Calorimetry, 2014, 115, 1651-1660.	3.6	32
9	Generalized regression and feed forward back propagation neural networks in modelling flammability characteristics of polymethyl methacrylate (PMMA). Thermochimica Acta, 2018, 667, 79-92.	2.7	31
10	Correlation analysis of cone calorimetry and microscale combustion calorimetry experiments. Journal of Thermal Analysis and Calorimetry, 2019, 136, 589-599.	3.6	31
11	Compare the flammability of two extruded polystyrene foams with micro-scale combustion calorimeter and cone calorimeter tests. Journal of Thermal Analysis and Calorimetry, 2017, 127, 2359-2366.	3.6	30
12	Pyrolysis Kinetic Study and Reaction Mechanism of Epoxy Glass Fiber Reinforced Plastic by Thermogravimetric Analyzer (TG) and TGâ€“FTIR (Fourier-Transform Infrared) Techniques. Polymers, 2020, 12, 2739.	4.5	27
13	Adaptive Repetitive Control of Hydraulic Load Simulator With RISE Feedback. IEEE Access, 2017, 5, 23901-23911.	4.2	25
14	Discuss the heat release capacity of polymer derived from microscale combustion calorimeter. Journal of Thermal Analysis and Calorimetry, 2018, 133, 649-657.	3.6	22
15	Comparative evaluation of the predictability of neural network methods on the flammability characteristics of extruded polystyrene from microscale combustion calorimetry. Journal of Thermal Analysis and Calorimetry, 2019, 138, 3055-3064.	3.6	20
16	Pyrolytic Kinetics of Polystyrene Particle in Nitrogen Atmosphere: Particle Size Effects and Application of Distributed Activation Energy Method. Polymers, 2020, 12, 421.	4.5	19
17	Analysis of the relationship between MCC and thermal analysis results in evaluating flammability of EPS foam. Journal of Thermal Analysis and Calorimetry, 2014, 118, 687-693.	3.6	14
18	The Effect of Carbon Black on the Properties of Plasticised Wheat Gluten Biopolymer. Molecules, 2020, 25, 2279.	3.8	14

#	Article	IF	Citations
19	Fire Behavior of Wood-Based Composite Materials. Polymers, 2021, 13, 4352.	4.5	13
20	A critical review of the methods and applications of microscale combustion calorimetry for material flammability assessment. Journal of Thermal Analysis and Calorimetry, 2022, 147, 6001-6013.	3.6	11
21	Time to flashover of a vinyl based lining material: Cone calorimeter experiments. Thermal Science, 2011, 15, 785-792.	1.1	7
22	Total heat flux on the wall: Bench scale wood crib fires tests. Thermal Science, 2010, 14, 283-290.	1.1	7
23	A PMMA flammability analysis using the MCC. Journal of Thermal Analysis and Calorimetry, 2016, 126, 1831-1840.	3.6	6
24	Demystifying Low-Carbon Materials. Materials Circular Economy, 2021, 3, 1.	3.2	6
25	Testing bioplastic containing functionalised biochar. Polymer Testing, 2022, 113, 107657.	4.8	6
26	Evaluate the flammability of a PU foam with double-scale analysis. Journal of Thermal Analysis and Calorimetry, 2019, 135, 3329-3337.	3.6	5
27	Suppress flashover of GRP fire with water mist inside ISO 9705 Room. Thermal Science, 2011, 15, 353-366.	1.1	3
28	Developing an artificial intelligent model for predicting combustion and flammability properties. Fire and Materials, 2022, 46, 830-842.	2.0	3
29	Wood Dust Flammability Analysis by Microscale Combustion Calorimetry. Polymers, 2022, 14, 45.	4.5	3
30	A transient heat flux sensor based on the transverse Seebeck effect of single crystal Bi2Te3. Measurement: Journal of the International Measurement Confederation, 2022, 198, 111419.	5.0	3
31	Extended state observer based nonlinear adaptive robust control of hydraulic load simulator. , 2016, , .		1
32	Insight into chemical reaction kinetics effects on thermal ablation of charring material. Thermal Science, 2022, 26, 529-543.	1.1	1
33	The melt/shrink effect of low density thermoplastics insulates: Cone calorimeter tests. Thermal Science, 2017, 21, 2177-2187.	1.1	1
34	Influence of fiberglass mesh on flammability of EPS used as insulation of buildings. Thermal Science, 2018, 22, 1025-1036.	1.1	0