

Bo Xu

List of Publications by Year in descending order

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28
papers

846
citations

471477

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501174

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docs citations

29
times ranked

583
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and characterization of a novel organic-inorganic hybrid char-forming agent and its flame-retardant application in polypropylene composites. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 134, 231-242.	5.5	124
2	Synthesis and characterization of aluminum poly-hexamethylenephosphinate and its flame-retardant application in epoxy resin. <i>Polymer Degradation and Stability</i> , 2015, 122, 8-17.	5.8	76
3	A phosphorous-based bi-functional flame retardant for rigid polyurethane foam. <i>Polymer Degradation and Stability</i> , 2021, 186, 109516.	5.8	69
4	Quickly self-extinguishing flame retardant behavior of rigid polyurethane foams linked with phosphaphenanthrene groups. <i>Composites Part B: Engineering</i> , 2019, 175, 107186.	12.0	58
5	Synthesis of (1,4-Methylenephénylphosphinic acid) Piperazine and Its Application as a Flame Retardant in Epoxy Thermosets. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1900419.	3.6	42
6	Epoxy thermoset with enhanced flame retardancy and physical-mechanical properties based on reactive phosphaphenanthrene compound. <i>Polymer Degradation and Stability</i> , 2020, 172, 109063.	5.8	40
7	Flame retardant and toughening behaviors of bio-based DOPO-containing curing agent in epoxy thermoset. <i>Polymers for Advanced Technologies</i> , 2020, 31, 461-471.	3.2	33
8	Addition flame-retardant effect of nonreactive phosphonate and expandable graphite in rigid polyurethane foams. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45960.	2.6	30
9	Flame retardant application of a hypophosphite/cyclotetrasiloxane bigroup compound on polycarbonate. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48699.	2.6	30
10	Enhancement of the intumescent flame retardant efficiency in polypropylene by synergistic charring effect of a hypophosphite/cyclotetrasiloxane bi-group compound. <i>Polymer Degradation and Stability</i> , 2020, 181, 109281.	5.8	30
11	Impact on flame retardancy and degradation behavior of intumescent flame-retardant EP composites by a hyperbranched triazine-based charring agent. <i>Polymers for Advanced Technologies</i> , 2020, 31, 3316-3327.	3.2	30
12	Bi-phase flame-retardant effect of dimethyl methylphosphonate and modified ammonium polyphosphate on rigid polyurethane foam. <i>Polymers for Advanced Technologies</i> , 2019, 30, 2721-2728.	3.2	29
13	Flame retardancy and thermal behavior of intumescent flame-retardant EVA composites with an efficient triazine-based charring agent. <i>Materials Research Express</i> , 2018, 5, 045309.	1.6	27
14	Synergistic Effects of Nano-zinc Oxide on Improving the Flame Retardancy of EVA Composites with an Efficient Triazine-Based Charring Agent. <i>Journal of Polymers and the Environment</i> , 2019, 27, 1127-1140.	5.0	27
15	Enhancement of an organic-metallic hybrid charring agent on flame retardancy of ethylene-vinyl acetate copolymer. <i>Royal Society Open Science</i> , 2019, 6, 181413.	2.4	24
16	Synergistic Charring Flame-Retardant Behavior of Polyimide and Melamine Polyphosphate in Glass Fiber-Reinforced Polyamide 66. <i>Polymers</i> , 2019, 11, 1851.	4.5	24
17	Flame Inhibition and Charring Effect of Aromatic Polyimide and Aluminum Diethylphosphinate in Polyamide 6. <i>Polymers</i> , 2019, 11, 74.	4.5	23
18	Strengthen flame retardancy of epoxy thermoset by montmorillonite particles adhering phosphorus-containing fragments. <i>Journal of Applied Polymer Science</i> , 2020, 137, 47500.	2.6	18

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19	Preparation of flame retardant and conductive epoxy resin composites by incorporating functionalized multi-walled carbon nanotubes and graphite sheets. <i>Polymers for Advanced Technologies</i> , 2021, 32, 2093-2101.	3.2	17
20	Joint-aggregation intumescent flame-retardant effect of ammonium polyphosphate and charring agent in polypropylene. <i>Polymers for Advanced Technologies</i> , 2020, 31, 1699-1708.	3.2	15
21	Mechanical properties and flame retardancy of PLA composites containing zinc oxide and chain extender. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50987.	2.6	15
22	Synthesis and Characterization of Aluminum 2-Carboxyethyl-Phenyl-Phosphinate and Its Flame-Retardant Application in Polyester. <i>Polymers</i> , 2019, 11, 1969.	4.5	14
23	Intumescent flame-retardant poly(1, 4-butylene terephthalate) with ammonium polyphosphate and a hyperbranched triazine charring-foaming agent: Flame retardancy performance and mechanisms. <i>Journal of Fire Sciences</i> , 2017, 35, 317-340.	2.0	12
24	Preparation and properties of PLA/PHBV/PBAT blends 3D printing filament. <i>Materials Research Express</i> , 2019, 6, 065401.	1.6	12
25	A novel high phosphorus-efficiency phosphaphenanthrene curing agent for fabricating flame retardant and toughened epoxy thermoset. <i>Polymers for Advanced Technologies</i> , 2022, 33, 770-781.	3.2	10
26	The effects of DOPO modified Co-based metalorganic framework on flame retardancy, stiffness and thermal stability of epoxy resin. <i>RSC Advances</i> , 2021, 11, 6781-6790.	3.6	8
27	Effect of two boron compounds on smoke-suppression and flame-retardant properties for rigid polyurethane foams. <i>Polymer International</i> , 2022, 71, 1210-1219.	3.1	7
28	Novel Amphiphilic Comb-Like Polymers: Synthesis, Characterization, and Their Properties as Viscosifying and Filtration Additives for Drilling Fluids. <i>Journal of Macromolecular Science - Physics</i> , 2014, 53, 1011-1026.	1.0	2