

Jianwei Hao

List of Publications by Year in descending order

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42
papers

1,538
citations

394421

19
h-index

302126

39
g-index

42
all docs

42
docs citations

42
times ranked

1271
citing authors

#	ARTICLE	IF	CITATIONS
1	Toughening Effect and Flame-Retardant Behaviors of Phosphaphenanthrene/Phenylsiloxane Bigroup Macromolecules in Epoxy Thermoset. <i>Macromolecules</i> , 2018, 51, 9992-10002.	4.8	144
2	Using TGA/FTIR TGA/MS and cone calorimetry to understand thermal degradation and flame retardancy mechanism of polycarbonate filled with solid bisphenol A bis(diphenyl phosphate) and montmorillonite. <i>Polymer Degradation and Stability</i> , 2012, 97, 605-614.	5.8	118
3	Recent studies on the decomposition and strategies of smoke and toxicity suppression for polyurethane based materials. <i>RSC Advances</i> , 2016, 6, 74742-74756.	3.6	111
4	Study on the thermal degradation of mixtures of ammonium polyphosphate and a novel caged bicyclic phosphate and their flame retardant effect in polypropylene. <i>Polymer Degradation and Stability</i> , 2012, 97, 632-637.	5.8	105
5	Layer-by-Layer Assembly of Multifunctional Flame Retardant Based on Brucite, 3-Aminopropyltriethoxysilane, and Alginate and Its Applications in Ethylene-Vinyl Acetate Resin. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9925-9935.	8.0	96
6	Thermal decomposition and flammability of rigid PU foams containing some DOPO derivatives and other phosphorus compounds. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 124, 219-229.	5.5	81
7	Bio-based phytic acid and tannic acid chelate-mediated interfacial assembly of Mg(OH) ₂ for simultaneously improved flame retardancy, smoke suppression and mechanical properties of PVC. <i>Composites Part B: Engineering</i> , 2020, 188, 107854.	12.0	78
8	Spray-Drying-Assisted Layer-by-Layer Assembly of Alginate, 3-Aminopropyltriethoxysilane, and Magnesium Hydroxide Flame Retardant and Its Catalytic Graphitization in Ethylene-Vinyl Acetate Resin. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 10490-10500.	8.0	77
9	Synergistic flame retardant effects and mechanisms of nano-Sb ₂ O ₃ in combination with aluminum phosphinate in poly(ethylene terephthalate). <i>Polymer Degradation and Stability</i> , 2014, 100, 70-78.	5.8	70
10	Improving the fracture toughness and flame retardant properties of epoxy thermosets by phosphaphenanthrene/siloxane cluster-like molecules with multiple reactive groups. <i>Composites Part B: Engineering</i> , 2019, 178, 107481.	12.0	69
11	Catalytic pyrolysis and flame retardancy of epoxy resins with solid acid boron phosphate. <i>Polymer Degradation and Stability</i> , 2014, 110, 395-404.	5.8	63
12	Ammonium polyphosphate modified with β -cyclodextrin crosslinking rigid polyurethane foam: Enhancing thermal stability and suppressing flame spread. <i>Polymer Degradation and Stability</i> , 2019, 161, 166-174.	5.8	63
13	Flame retardancy and thermal properties of solid bisphenol A bis(diphenyl phosphate) combined with montmorillonite in polycarbonate. <i>Polymer Degradation and Stability</i> , 2010, 95, 2041-2048.	5.8	54
14	Effects of organoclay modifiers on the flammability, thermal and mechanical properties of polycarbonate nanocomposites filled with a phosphate and organoclays. <i>Polymer Degradation and Stability</i> , 2012, 97, 108-117.	5.8	47
15	Inorganic-organic hybrid coating encapsulated ammonium polyphosphate and its flame retardancy and water resistance in epoxy resin. <i>Fire and Materials</i> , 2014, 38, 312-322.	2.0	34
16	Synthesis, characteristic of a novel additive-type flame retardant containing silicon and its application in PC/ABS alloy. <i>Journal of Materials Science</i> , 2007, 42, 10106-10112.	3.7	33
17	Pyrolysis and flame retardant behavior of a novel compound with multiple phosphaphenanthrene groups in epoxy thermosets. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 127, 23-30.	5.5	30
18	Fabrication of melamine trimetaphosphate 2D supermolecule and its superior performance on flame retardancy, mechanical and dielectric properties of epoxy resin. <i>Composites Part B: Engineering</i> , 2021, 225, 109269.	12.0	29

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19	Preparation of boron-coated expandable graphite and its application in flame retardant rigid polyurethane foam. <i>Chemical Research in Chinese Universities</i> , 2015, 31, 315-320.	2.6	25
20	One-step treated wood by using natural source phytic acid and uracil for enhanced mechanical properties and flame retardancy. <i>Polymers for Advanced Technologies</i> , 2021, 32, 1176-1186.	3.2	23
21	Gaseous-phase flame retardant behavior of a multi-phosphaphenanthrene compound in a polycarbonate composite. <i>RSC Advances</i> , 2017, 7, 51290-51297.	3.6	18
22	Optimization of sol-gel coatings on the surface of ammonium polyphosphate and its application in epoxy resin. <i>Journal of Fire Sciences</i> , 2012, 30, 357-371.	2.0	16
23	Poly (diallyldimethylammonium) and polyphosphate polyelectrolyte complexes as an flame retardant for polypropylene. <i>Polymers for Advanced Technologies</i> , 2020, 31, 260-272.	3.2	16
24	Study on flame retardancy of ammonium polyphosphate/montmorillonite nanocompound coated cellulose paper and its application as surface flame retarded treatment for polypropylene. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 146, 2015-2025.	3.6	15
25	Effect of natural basalt fiber for EVA composites with nickel alginate-brucite based flame retardant on improving fire safety and mechanical properties. <i>Polymers for Advanced Technologies</i> , 2020, 31, 713-721.	3.2	14
26	Smoke and toxicity suppression by zinc salts in flame-retardant polyurethane-polyisocyanurate foams filled with phosphonate and chlorinated phosphate. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	13
27	Catalyzing charring effect of solid acid boron phosphate on dipentaerythritol during the thermal degradation and combustion. <i>Polymer Degradation and Stability</i> , 2015, 119, 242-250.	5.8	13
28	Ammonium Polyphosphate with High Specific Surface Area by Assembling Zeolite Imidazole Framework in EVA Resin: Significant Mechanical Properties, Migration Resistance, and Flame Retardancy. <i>Polymers</i> , 2020, 12, 534.	4.5	13
29	Intrinsic flame-retardant epoxy resin composites with benzoxazine: Effect of a catalyst and a low curing temperature. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47847.	2.6	12
30	Rheological behavior of polycarbonate/ultrafine octaphenyl silsesquioxane (OPS) composites. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	10
31	Accelerating Thermal Stabilization by Pyrolytic Lignin for Partially Bio-Based Carbon Fiber Precursor. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 1900618.	3.6	7
32	Study on fault diagnostic strategy of intelligent magnetic detection microsystems. <i>Microsystem Technologies</i> , 2009, 15, 89-94.	2.0	6
33	Poly(diallyldimethylammonium) and polyphosphate polyelectrolyte complex as flame retardant for char-forming epoxy resins. <i>Journal of Fire Sciences</i> , 2020, 38, 333-347.	2.0	6
34	Graphene Nanoplatelets Hybrid Flame Retardant Containing Ionic Liquid and Ammonium Polyphosphate for Modified Bismaleimide Resin: Excellent Flame Retardancy, Thermal Stability, Water Resistance and Unique Dielectric Properties. <i>Materials</i> , 2021, 14, 6406.	2.9	6
35	Nitrocellulose-based hybrid materials with T7-POSS as a modifier: effective reinforcement for thermal stability, combustion safety, and mechanical properties. <i>Journal of Polymer Research</i> , 2017, 24, 1.	2.4	5
36	Controllable layer-by-layer assembly based on brucite and alginates with the assistance of spray drying and flame retardancy influenced by gradients of alginates. <i>Journal of Applied Polymer Science</i> , 2020, 137, 47570.	2.6	5

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37	A study on the fire resistance performance and thermal degradation behavior of a new intumescent flame retardant fluoroelastomer. <i>Journal of Fire Sciences</i> , 2014, 32, 362-373.	2.0	4
38	<i>In Situ</i> Nitrogen Retention of Carbon Anode for Enhancing the Electrochemical Performance for Sodium-Ion Battery. <i>Chemistry - A European Journal</i> , 2021, 27, 8030-8039.	3.3	4
39	Some Developments in Halogen-Free Flame Retardancy of Polycarbonate and Its Blends. <i>ACS Symposium Series</i> , 2012, , 113-122.	0.5	2
40	Fast prepare exfoliated montmorillonite water suspension with assistance of melamine cyanurate and the superlattice obtained by self-assembly. <i>Polymers for Advanced Technologies</i> , 2021, 32, 2990-2999.	3.2	2
41	Percolation and catalysis effect of bamboo-based active carbon on the thermal and flame retardancy properties of ethylene vinyl-acetate rubber. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	1
42	Study of Intumescent Flame Retardant Copolyester Hot Melt Adhesive. <i>ACS Symposium Series</i> , 2012, , 183-191.	0.5	0