

Facile preparation of layered melamine-phytate flame retardant self-assembly technology

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Synthesis of a novel phosphorus-nitrogen flame retardant and its application in epoxy resin. <i>Polymer Degradation and Stability</i> , 2019, 169, 108981.	2.7	112
2	Modification of halloysite nanotubes with supramolecular self-assembly aggregates for reducing smoke release and fire hazard of polypropylene. <i>Composites Part B: Engineering</i> , 2019, 177, 107371.	5.9	71
3	Doping Carbon Nitride Quantum Dots into Melamine-Silver Matrix: An Efficient Photocatalyst with Tunable Morphology and Photocatalysis for H_2O_2 Evolution under Visible Light. <i>ChemCatChem</i> , 2020, 12, 1512-1518.	1.8	21
4	Supramolecular self-assembly modification of ammonium polyphosphate and its flame retardant application in polypropylene. <i>Polymers for Advanced Technologies</i> , 2020, 31, 1099-1109.	1.6	23
5	Surface modification of ammonium polyphosphate by supramolecular assembly for enhancing fire safety properties of polypropylene. <i>Composites Part B: Engineering</i> , 2020, 181, 107588.	5.9	106
6	Self-assembly followed by radical polymerization of ionic liquid for interfacial engineering of black phosphorus nanosheets: Enhancing flame retardancy, toxic gas suppression and mechanical performance of polyurethane. <i>Journal of Colloid and Interface Science</i> , 2020, 561, 32-45.	5.0	91
7	Modified alkaline lignin for ductile polylactide composites. <i>Composites Communications</i> , 2020, 22, 100501.	3.3	13
8	Exploration on the influence mechanism of heteroatom doped graphene on thermal oxidative stability and decomposition of polypropylene. <i>Materials Today Communications</i> , 2020, 25, 101446.	0.9	1
9	Synergistic effect of layered melamine-phytate and intumescent flame retardant on enhancing fire safety of polypropylene. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 285-295.	2.0	14
10	Synthesis of a Novel Spiro Phosphorus-Nitrogen Concerted Reactive Flame-Retardant Curing Agent and Its Application in Epoxy Resin. <i>Frontiers in Materials</i> , 2020, 7, .	1.2	12
11	Cross-Linking Modification of Ammonium Polyphosphate via Ionic Exchange and Self-Assembly for Enhancing the Fire Safety Properties of Polypropylene. <i>Polymers</i> , 2020, 12, 2761.	2.0	11
12	Inhibited combustion of graphene paper by in situ phosphorus doping and its application for fire early-warning sensor. <i>Sensors and Actuators A: Physical</i> , 2020, 312, 112111.	2.0	47
13	Functionalized graphene paper with the function of fuse and its flame-triggered self-cutting performance for fire-alarm sensor application. <i>Materials Chemistry and Physics</i> , 2020, 252, 123292.	2.0	24
14	Nacre-biomimetic graphene oxide paper intercalated by phytic acid and its ultrafast fire-alarm application. <i>Journal of Colloid and Interface Science</i> , 2020, 578, 412-421.	5.0	53
15	A Bio-Based Flame-Retardant Starch Based On Phytic Acid. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 10265-10274.	3.2	72
16	Hexafluoroisopropanol-alkanol based high-density supramolecular solvents: Fabrication, characterization and application potential as restricted access extractants. <i>Analytica Chimica Acta</i> , 2020, 1124, 20-31.	2.6	8
17	A green self-assembled organic supermolecule as an effective flame retardant for epoxy resin. <i>RSC Advances</i> , 2020, 10, 12492-12503.	1.7	25
18	Core-Shell Graphitic Carbon Nitride/Zinc Phytate as a Novel Efficient Flame Retardant for Fire Safety and Smoke Suppression in Epoxy Resin. <i>Polymers</i> , 2020, 12, 212.	2.0	24

#	ARTICLE	IF	CITATIONS
19	Intercalation of a novel containing nitrogen and sulfur anion into hydrotalcite and its highly efficient flame retardant performance for polypropylene. <i>Applied Clay Science</i> , 2020, 191, 105600.	2.6	33
20	Investigation on thermokinetic suppression of ammonium polyphosphate on sucrose dust deflagration: Based on flame propagation, thermal decomposition and residue analysis. <i>Journal of Hazardous Materials</i> , 2021, 403, 123653.	6.5	42
21	The combustion and pyrolysis process of flame-retardant polystyrene/cobalt-based metal organic frameworks (MOF) nanocomposite. <i>Combustion and Flame</i> , 2021, 226, 108-116.	2.8	76
22	Carbonization mechanism of polypropylene catalyzed by Co compounds combined with phosphorus-doped graphene to improve its fire safety performance. <i>Materials Today Communications</i> , 2021, 26, 101792.	0.9	5
23	Effect of nickel phytate on flame retardancy of intumescent flame retardant polylactic acid. <i>Polymers for Advanced Technologies</i> , 2021, 32, 1548-1559.	1.6	38
24	Phosphate-based covalent adaptable networks with recyclability and flame retardancy from bioresources. <i>European Polymer Journal</i> , 2021, 144, 110236.	2.6	57
25	Nacre-like graphene oxide paper bonded with boric acid for fire early-warning sensor. <i>Journal of Hazardous Materials</i> , 2021, 403, 123645.	6.5	86
26	Combustion Behavior and Thermal Degradation Properties of Wood Impregnated with Intumescent Biomass Flame Retardants: Phytic Acid, Hydrolyzed Collagen, and Glycerol. <i>ACS Omega</i> , 2021, 6, 3921-3930.	1.6	45
27	Preferred zinc-modified melamine phytate for the flame retardant polylactide with limited smoke release. <i>New Journal of Chemistry</i> , 2021, 45, 13329-13339.	1.4	22
28	Simultaneously improving mechanical strength, hydrophobic property and flame retardancy of ethylene vinyl acetate copolymer/intumescent flame retardant/FeOOH by introducing modified fumed silica. <i>Materials Today Communications</i> , 2021, 26, 102114.	0.9	18
29	Preparation of phytic acid-based green intumescent flame retardant and its application in PLA nonwovens. <i>Polymers for Advanced Technologies</i> , 2021, 32, 3039-3049.	1.6	28
30	Renewable lignin-based surfactant modified layered double hydroxide and its application in polypropylene as flame retardant and smoke suppression. <i>International Journal of Biological Macromolecules</i> , 2021, 178, 580-590.	3.6	64
31	Nickel Ammonium Phosphate Nanowires Modified g-C ₃ N ₄ for Improving the Fire Safety of Epoxy Resin. <i>Fibers and Polymers</i> , 2021, 22, 2664-2672.	1.1	7
32	Improving the Flame Retardancy of Bamboo Slices by Coating With Melamine-Phytate via Layer-by-Layer Assembly. <i>Frontiers in Materials</i> , 2021, 8, .	1.2	4
33	Synthesis of green nanomaterial and discussion on its suppression performance and mechanism to aluminum dust explosion. <i>Chemical Engineering Research and Design</i> , 2021, 151, 355-364.	2.7	16
34	Synthesis of melamine phenyl hypophosphite and its synergistic flame retardance with SiO ₂ on polypropylene. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 6207-6217.	2.0	9
35	Surface modification of multi-scale cuprous oxide with tunable catalytic activity towards toxic fumes and smoke suppression of rigid polyurethane foam. <i>Applied Surface Science</i> , 2021, 556, 149792.	3.1	21
36	Innovative Polyelectrolyte Treatment to Flame-Retard Wood. <i>Polymers</i> , 2021, 13, 2884.	2.0	11

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37	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.	5.9	29
38	Enhancing the flame retardancy and UV resistance of polyamide 6 by introducing ternary supramolecular aggregates. <i>Chemosphere</i> , 2022, 287, 132100.	4.2	18
39	Sustainable, high-performance, flame-retardant waterborne wood coatings via phytic acid based green curing agent for melamine-urea-formaldehyde resin. <i>Progress in Organic Coatings</i> , 2022, 162, 106597.	1.9	24
40	A facile strategy to achieve efficient flame-retardant cotton fabric with durable and restorable fire resistance. <i>Chemical Engineering Journal</i> , 2022, 430, 132854.	6.6	44
41	Bio-based adenosine triphosphate pillared layered double hydroxide for enhancing flame retardancy of polypropylene. <i>Applied Clay Science</i> , 2022, 217, 106393.	2.6	15
42	Comprehensive Investigations on the Explosion Suppression of Biomass Fuels: Starch as a Representative. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
43	Facile synthesis of melamine phytates and its application in rigid polyurethane foam composites targets for improving fire safety. <i>Plastics, Rubber and Composites</i> , 2023, 52, 145-159.	0.9	4
44	Fire-Retardant and Thermal-Insulating Cellulose Nanofibril Aerogel Modified by In Situ Supramolecular Assembly of Melamine and Phytic Acid. <i>Advanced Engineering Materials</i> , 2022, 24, .	1.6	20
45	Bio-Based Trivalent Phytate: A Novel Strategy for Enhancing Fire Performance of Rigid Polyurethane Foam Composites. <i>Journal of Renewable Materials</i> , 2022, 10, 1201-1220.	1.1	11
46	A novel nitrogen-rich phosphinic amide towards flame-retardant, smoke suppression and mechanically strengthened epoxy resins. <i>Polymer Degradation and Stability</i> , 2022, 196, 109840.	2.7	40
47	Comprehensive investigations on the explosion suppression of biomass fuels: Starch as a representative. <i>Fuel</i> , 2022, 315, 123276.	3.4	5
48	Green construction of melamine phytate nanosheets for enhancing anti-corrosive performance of water-borne epoxy coatings. <i>Journal of Materials Science</i> , 2022, 57, 4820-4833.	1.7	9
49	Ionic liquid modified boron nitride nanosheets for interface engineering of epoxy resin nanocomposites: Improving thermal stability, flame retardancy, and smoke suppression. <i>Polymer Degradation and Stability</i> , 2022, 199, 109899.	2.7	22
50	Flame retardancy efficacy of phytic acid: An overview. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	1.3	24
51	Synthesis and characterization of bio-based "three sources in one" intumescent flame retardant monomer and the intrinsic flame retardant waterborne polyurethane. <i>Journal of Polymer Research</i> , 2022, 29, .	1.2	10
52	Flame retardancy of carboxylated polyhedral oligosilsesquioxane modified layered double hydroxide in the process of leather fatliquoring. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	1.3	4
53	Synthesis of a Novel Inhibitor and Its Inhibition Mechanism on Aluminum Dust Explosions. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 7020-7031.	1.8	2
54	Facile fabrication of starch-based, synergistic intumescent and halogen-free flame retardant strategy with expandable graphite in enhancing the fire safety of polypropylene. <i>Industrial Crops and Products</i> , 2022, 184, 115002.	2.5	15

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55	The influence of poorly-/well-dispersed organo-montmorillonite on interfacial compatibility, fire retardancy and smoke suppression of polypropylene/intumescent flame retardant composite system. <i>Journal of Colloid and Interface Science</i> , 2022, 622, 367-377.	5.0	21
56	An eco-friendly and pH response cerium-based melamine phytate (PM) nanosheets with active and passive anticorrosion ability in water-borne epoxy coating. <i>Applied Surface Science</i> , 2022, 597, 153726.	3.1	17
57	Effects of a composite flame retardant system on the flame retardancy and mechanical performance of epoxy resin adhesive. <i>Journal of Vinyl and Additive Technology</i> , 2022, 28, 775-787.	1.8	12
58	Oriented growth of LDH for constructing multifunctional cotton fabric with flame retardancy, smoke suppression, and filtering capability. <i>Applied Clay Science</i> , 2022, 226, 106588.	2.6	6
59	Overview on Classification of Flame-Retardant Additives for Polymeric Matrix. <i>ACS Symposium Series</i> , 0, , 59-82.	0.5	0
60	Fabrication of hierarchical core@shell carbon microspheres@ layered double hydroxide@ polyphosphazene architecture in flame-retarding polypropylene. <i>European Polymer Journal</i> , 2022, 177, 111405.	2.6	6
61	The fabrication of phytate and LDH-based hybrid nanosheet towards improved fire safety properties and superior smoke suppression of intumescent flame retardant LDPE. <i>Thermochimica Acta</i> , 2022, 714, 179271.	1.2	9
62	Novel bio-derived phytic acid and melamine interlayered/surface dual modified layered double hydroxide by one-pot method and its highly efficient flame retardant performance for polypropylene. <i>Applied Clay Science</i> , 2022, 228, 106620.	2.6	20
63	Covalent flame-retardant functionalization of wool fabric using ammonium phytate with improved washing durability. <i>Industrial Crops and Products</i> , 2022, 187, 115332.	2.5	7
64	Preparation of a multifunctional flame retardant epoxy resin containing phosphorus and nitrogen and study of its properties. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	1.3	2
65	Growth of biobased flakes on the surface and within interlayer of metakaolinite to enhance the fire safety and mechanical properties of intumescent flame-retardant polyurea composites. <i>Chemical Engineering Journal</i> , 2022, 450, 138350.	6.6	11
66	Synthesis of a novel prolonged action inhibitor with lotus leaf-like appearance and its suppression on methane/hydrogen/air explosion. <i>Fuel</i> , 2022, 329, 125401.	3.4	9
67	A facile method for synthesis of novel phenyl phosphates flame retardants and their application in epoxy resin. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	1.3	2
68	Bioinspired mono-component lignin endowing epoxy resin with simultaneously improving flame retardancy and mechanical properties. <i>Composites Communications</i> , 2022, 35, 101306.	3.3	7
69	A self-assembled bio-based coating with phytic acid and DL-arginine used for a flame-retardant and antibacterial cellulose fabric. <i>Progress in Organic Coatings</i> , 2022, 173, 107179.	1.9	6
70	Ethanol inducing self-assembly of poly-(thioctic acid)/graphene supramolecular ionomers for healable, flame-retardant, shape-memory electronic devices. <i>Journal of Colloid and Interface Science</i> , 2023, 629, 908-915.	5.0	18
71	Natural silk fibroin based flame retardant LbL-coating for Dongba paper. <i>Cellulose</i> , 2022, 29, 9393-9406.	2.4	3
72	Recent trends of phosphorus-containing flame retardants modified polypropylene composites processing. <i>Heliyon</i> , 2022, 8, e11225.	1.4	12

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73	Self-assembled double core-shell structured zeolitic imidazole framework-8 as an effective flame retardant and smoke suppression agent for thermoplastic polyurethane. <i>Applied Surface Science</i> , 2023, 610, 155540.	3.1	15
74	Design of Hierarchically Tailored Hybrids Based on Nickel Nanocrystal-Decorated Manganese Dioxides for Enhanced Fire Safety of Epoxy Resin. <i>International Journal of Molecular Sciences</i> , 2022, 23, 13711.	1.8	1
75	Novel transition metal modified layered phosphate for reducing the fire hazards of PA6. <i>Composites Communications</i> , 2023, 37, 101442.	3.3	6
76	Composites Filled with Metal Organic Frameworks and Their Derivatives: Recent Developments in Flame Retardants. <i>Polymers</i> , 2022, 14, 5279.	2.0	7
77	Synthesis of phosphorus-nitrogen hybrid flame retardant and investigation of its efficient flame-retardant behavior in PA6/PA66. <i>Journal of Applied Polymer Science</i> , 2023, 140, .	1.3	7
78	Synergistic Effect of 4A Molecular Sieve on Intumescent Ternary H-Bonded Complex in Flame-Retarding of Polypropylene. <i>Polymers</i> , 2023, 15, 374.	2.0	2
79	Multifunctional Flame-Retardant, Thermal Insulation, and Antimicrobial Wood-Based Composites. <i>Biomacromolecules</i> , 2023, 24, 957-966.	2.6	15
80	Super-low-addition flame retardant for the fully bio-based poly(lactic acid) composites. <i>Polymer Degradation and Stability</i> , 2023, 211, 110309.	2.7	9
81	Fabrication of highly hydrophobic layered double hydroxide decorated with tannic acid cross-linked phosphazene as a novel flame retardant for polypropylene. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2023, 667, 131356.	2.3	4
82	Self-assembled biobased chitosan hybrid carrying N/P/B elements for polylactide with enhanced fire safety and mechanical properties. <i>International Journal of Biological Macromolecules</i> , 2023, 236, 123947.	3.6	5
83	Carbon Nanotube-Based Intumescent Flame Retardants Achieve High-Efficiency Flame Retardancy and Simultaneously Avoid Mechanical Property Loss. <i>Polymers</i> , 2023, 15, 1406.	2.0	2
84	Rigid polyurethane foam composites based on bivalent metal phytate: thermal stability, flame retardancy, and fire toxicity. <i>Polymer-Plastics Technology and Materials</i> , 2022, 61, 1204-1222.	0.6	2
85	Fabrication of Green and Scalable N/P/S/Mn Containing Biobased Layered Double Hydroxide as a Novel Flame Retardant and Efficient Char Forming Agent for Polypropylene. <i>ACS Sustainable Chemistry and Engineering</i> , 2023, 11, 5216-5228.	3.2	14
86	Preparation of acrylic emulsion coating with melamine polyphosphate, pentaerythritol and titanium dioxide for flame retardant cotton/polyethylene terephthalate blend fabrics. <i>Polymer Degradation and Stability</i> , 2023, 214, 110366.	2.7	8