

Bihe Yuan

List of Publications by Year in descending order

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104
papers

6,477
citations

61984

43
h-index

66911

78
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104
all docs

104
docs citations

104
times ranked

4635
citing authors

#	ARTICLE	IF	CITATIONS
1	Improving the Fire Performance of Structural Insulated Panel Core Materials with Intumescent Flame-Retardant Epoxy Resin Adhesive. <i>Fire Technology</i> , 2023, 59, 29-51.	3.0	5
2	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.	3.6	14
3	Surface modification of ammonium polyphosphate by kaolinite and the study on thermal decomposition behavior and flame-retardant performance. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 7311-7321.	3.6	3
4	Serendipity discovery of fire early warning function of chitosan film. <i>Carbohydrate Polymers</i> , 2022, 277, 118884.	10.2	16
5	Graphene oxide/chitosan nano-coating with ultrafast fire-alarm response and flame-retardant property. <i>Polymers for Advanced Technologies</i> , 2022, 33, 795-806.	3.2	18
6	Investigation on the flame and explosion suppression of hydrogen/air mixtures by porous copper foams in the pipe with large aspect ratio. <i>Journal of Loss Prevention in the Process Industries</i> , 2022, 76, 104744.	3.3	24
7	Explosion evolution behavior of methane/air premixed gas in a closed pipe filled with a bio-based porous material. <i>Fuel</i> , 2022, 318, 123716.	6.4	8
8	An innovative ternary composite paper of graphene and Fe ₃ O ₄ decorated multi-walled carbon nanotube for ultra-efficient electromagnetic interference shielding and fire-resistant properties. <i>Composites Communications</i> , 2022, 32, 101181.	6.3	11
9	Flame-retardant ALOOH/graphene oxide composite coating with temperature-responsive resistance for efficient early-warning fire sensors. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 648, 129326.	4.7	18
10	Upgrading the pore-size scale of MIL-53 from microporous to macroporous for adsorbing triethyl phosphate and reducing the fire risk of polystyrene. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022, 159, 107003.	7.6	14
11	Facile preparation of N-doped activated carbon produced from rice husk for CO ₂ capture. <i>Journal of Colloid and Interface Science</i> , 2021, 582, 90-101.	9.4	183
12	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.	12.4	42
13	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.	1.9	5
14	Nacre-like graphene oxide paper bonded with boric acid for fire early-warning sensor. <i>Journal of Hazardous Materials</i> , 2021, 403, 123645.	12.4	86
15	Flame-retardant cellulose nanofiber aerogel modified with graphene oxide and sodium montmorillonite and its fire-alarm application. <i>Polymers for Advanced Technologies</i> , 2021, 32, 1877-1887.	3.2	35
16	Thermally induced fire early warning aerogel with efficient thermal isolation and flame-retardant properties. <i>Polymers for Advanced Technologies</i> , 2021, 32, 2159-2168.	3.2	31
17	Effectiveness and mechanism of sodium phytate as a green inhibitor for the dust deflagration of lysine sulfate. <i>Chemical Engineering Research and Design</i> , 2021, 147, 772-787.	5.6	18
18	Self S-doping activated carbon derived from lignin-based pitch for removal of gaseous benzene. <i>Chemical Engineering Journal</i> , 2021, 410, 128286.	12.7	44

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19	The influence of opening shape of obstacles on explosion characteristics of premixed methane-air with concentration gradients. <i>Chemical Engineering Research and Design</i> , 2021, 150, 305-313.	5.6	51
20	Facile fabrication of porous fire-resistant graphene macro-assembly with outstanding electromagnetic interference shielding performance. <i>Materials Letters</i> , 2021, 299, 130055.	2.6	7
21	Synthesis of a bio-based flame retardant via a facile strategy and its synergistic effect with ammonium polyphosphate on the flame retardancy of polylactic acid. <i>Polymer Degradation and Stability</i> , 2021, 191, 109684.	5.8	52
22	The design of lightweight and porous graphene-based composite paper and the study on its electromagnetic interference shielding and fire resistance. <i>Materials Letters</i> , 2021, 304, 130625.	2.6	7
23	Fundamental investigation on the effects of ammonium polyphosphate on flame propagation behaviors of starch dust deflagration. <i>Powder Technology</i> , 2020, 360, 411-420.	4.2	28
24	Suppression characteristics of double-layer wire mesh on wheat dust flame. <i>Powder Technology</i> , 2020, 360, 231-240.	4.2	30
25	Supramolecular self-assembly modification of ammonium polyphosphate and its flame retardant application in polypropylene. <i>Polymers for Advanced Technologies</i> , 2020, 31, 1099-1109.	3.2	23
26	Surface modification of ammonium polyphosphate by supramolecular assembly for enhancing fire safety properties of polypropylene. <i>Composites Part B: Engineering</i> , 2020, 181, 107588.	12.0	106
27	Preparation of piperazine cyanurate by hydrogen-bonding self-assembly reaction and its application in intumescent flame-retardant polypropylene composites. <i>Polymers for Advanced Technologies</i> , 2020, 31, 1027-1037.	3.2	11
28	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.	1.9	1
29	Characteristics of wheat dust flame with the influence of ceramic foam. <i>Advanced Powder Technology</i> , 2020, 31, 3570-3581.	4.1	9
30	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.	4.1	47
31	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.	4.0	24
32	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.	9.4	53
33	Insight into suppression performance and mechanisms of ultrafine powders on wood dust deflagration under equivalent concentration. <i>Journal of Hazardous Materials</i> , 2020, 394, 122584.	12.4	35
34	Effects of partial inerting on flame structures of starch dust deflagration in duct. <i>Powder Technology</i> , 2020, 373, 46-57.	4.2	13
35	Inhibition of diammonium phosphate on the wheat dust explosion. <i>Powder Technology</i> , 2020, 367, 751-761.	4.2	51
36	Alumina nanoflake-coated graphene nanohybrid as a novel flame retardant filler for polypropylene. <i>Polymers for Advanced Technologies</i> , 2019, 30, 2153-2158.	3.2	11

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37	Flame-retardant polyvinyl alcohol/cellulose nanofibers hybrid carbon aerogel by freeze drying with ultra-low phosphorus. <i>Applied Surface Science</i> , 2019, 497, 143775.	6.1	73
38	Inspiration from a thermosensitive biomass gel: A novel method to improving the stability of core-shell "dry water" fire extinguishing agent. <i>Powder Technology</i> , 2019, 356, 383-390.	4.2	39
39	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.	12.0	71
40	Suppression of wood dust explosion by ultrafine magnesium hydroxide. <i>Journal of Hazardous Materials</i> , 2019, 378, 120723.	12.4	109
41	Facile preparation of layered melamine-phytate flame retardant via supramolecular self-assembly technology. <i>Journal of Colloid and Interface Science</i> , 2019, 553, 364-371.	9.4	116
42	Renewable biomass gel reinforced core-shell dry water material as novel fire extinguishing agent. <i>Journal of Loss Prevention in the Process Industries</i> , 2019, 59, 14-22.	3.3	43
43	Effect of heat treatment on hydrophobic silica aerogel. <i>Journal of Hazardous Materials</i> , 2019, 362, 294-302.	12.4	157
44	The assembly nanohybrid of graphene with lamellar zirconium phenylphosphonate for improving flame retardancy and mechanical properties of polypropylene. <i>Polymer Composites</i> , 2019, 40, E1757-E1765.	4.6	7
45	MoO ₃ -ZrO ₂ solid acid for enhancement in the efficiency of intumescent flame retardant. <i>Powder Technology</i> , 2019, 344, 581-589.	4.2	32
46	Fast preparation of glass fiber/silica aerogel blanket in ethanol & water solvent system. <i>Journal of Non-Crystalline Solids</i> , 2019, 505, 286-291.	3.1	30
47	Suppression of methane/air explosion by kaolinite-based multi-component inhibitor. <i>Powder Technology</i> , 2019, 343, 279-286.	4.2	62
48	A novel and efficient strategy to exfoliation of covalent organic frameworks and a significant advantage of covalent organic frameworks nanosheets as polymer nano-enhancer: High interface compatibility. <i>Journal of Colloid and Interface Science</i> , 2019, 539, 609-618.	9.4	33
49	Effect of Obstacles on Flame Propagation Characteristics of Corn Starch Dust. <i>Combustion Science and Technology</i> , 2019, 191, 2006-2019.	2.3	3
50	Facile design of transition metal based organophosphorus hybrids towards the flame retardancy reinforcement and toxic effluent elimination of polystyrene. <i>Materials Chemistry and Physics</i> , 2018, 214, 209-220.	4.0	18
51	Mussel-inspired functionalization of electrochemically exfoliated graphene: Based on self-polymerization of dopamine and its suppression effect on the fire hazards and smoke toxicity of thermoplastic polyurethane. <i>Journal of Hazardous Materials</i> , 2018, 352, 57-69.	12.4	142
52	Poorly-/well-dispersed graphene: Abnormal influence on flammability and fire behavior of intumescent flame retardant. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 109, 345-354.	7.6	172
53	Effects of reduced oxygen levels on flame propagation behaviors of starch dust deflagration. <i>Journal of Loss Prevention in the Process Industries</i> , 2018, 54, 146-152.	3.3	23
54	Flammability of polystyrene/aluminum phosphinate composites containing modified ammonium polyphosphate. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 131, 1067-1077.	3.6	20

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55	Polydopamine-bridged synthesis of ternary h-BN@PDA@SnO ₂ as nanoenhancers for flame retardant and smoke suppression of epoxy composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 111, 94-105.	7.6	106
56	Inhibition effect of ammonium dihydrogen phosphate on the thermal decomposition characteristics and thermal sensitivity of ammonium nitrate. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 134, 195-201.	5.5	29
57	Atherton's Todd reaction assisted synthesis of functionalized multicomponent MoSe ₂ /CNTs nanoarchitecture towards the fire safety enhancement of polymer. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 112, 271-282.	7.6	42
58	Effect of metal mesh on the flame propagation characteristics of wheat starch dust. <i>Journal of Loss Prevention in the Process Industries</i> , 2018, 55, 107-112.	3.3	20
59	Facile fabrication of organically modified boron nitride nanosheets and its effect on the thermal stability, flame retardant, and mechanical properties of thermoplastic polyurethane. <i>Polymers for Advanced Technologies</i> , 2018, 29, 2545-2552.	3.2	45
60	A single L-cobalt hydroxide/sodium alginate bilayer layer-by-layer assembly for conferring flame retardancy to flexible polyurethane foams. <i>Materials Chemistry and Physics</i> , 2017, 191, 52-61.	4.0	41
61	A novel strategy to simultaneously electrochemically prepare and functionalize graphene with a multifunctional flame retardant. <i>Chemical Engineering Journal</i> , 2017, 316, 514-524.	12.7	165
62	Effect of dust explosion suppression by sodium bicarbonate with different granulometric distribution. <i>Journal of Loss Prevention in the Process Industries</i> , 2017, 49, 905-911.	3.3	71
63	Fabrication and Properties of Biobased Layer-by-Layer Coated Ramie Fabric-Reinforced Unsaturated Polyester Resin Composites. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 4758-4767.	3.7	31
64	Dual modification of graphene by polymeric flame retardant and Ni(OH) ₂ nanosheets for improving flame retardancy of polypropylene. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 100, 106-117.	7.6	283
65	Comparative evaluation of thermal decomposition behavior and thermal stability of powdered ammonium nitrate under different atmosphere conditions. <i>Journal of Hazardous Materials</i> , 2017, 337, 10-19.	12.4	51
66	Preparation of Large-Size Reduced Graphene Oxide-Wrapped Ammonium Polyphosphate and Its Enhancement of the Mechanical and Flame Retardant Properties of Thermoplastic Polyurethane. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 7468-7477.	3.7	59
67	The effects of graphene on the flammability and fire behavior of intumescent flame retardant polypropylene composites at different flame scenarios. <i>Polymer Degradation and Stability</i> , 2017, 143, 42-56.	5.8	202
68	Novel Melamine/Phthalaldehyde Covalent Organic Frameworks Nanosheets: Enhancement Flame Retardant and Mechanical Performances of Thermoplastic Polyurethanes. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 23017-23026.	8.0	98
69	Facile Construction of Flame-Retardant-Wrapped Molybdenum Disulfide Nanosheets for Properties Enhancement of Thermoplastic Polyurethane. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 7229-7238.	3.7	61
70	Two-Dimensional Metal Phenylphosphonates as Novel Flame Retardants for Polystyrene. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 7192-7206.	3.7	29
71	Effects of particle size on flame structures through corn starch dust explosions. <i>Journal of Loss Prevention in the Process Industries</i> , 2017, 50, 7-14.	3.3	49
72	Enhanced mechanical properties, water stability and repeatable shape recovery behavior of Ca ²⁺ crosslinking graphene oxide-based nacre-mimicking hybrid film. <i>Materials and Design</i> , 2017, 115, 46-51.	7.0	32

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73	The effect of carbon nanotubes/NiFe ₂ O ₄ on the thermal stability, combustion behavior and mechanical properties of unsaturated polyester resin. RSC Advances, 2016, 6, 96974-96983.	3.6	9
74	Enhanced fire-retardancy of poly(ethylene vinyl acetate) electrical cable coatings containing microencapsulated ammonium polyphosphate as intumescent flame retardant. RSC Advances, 2016, 6, 85564-85573.	3.6	25
75	The effect of doped heteroatoms (nitrogen, boron, phosphorus) on inhibition thermal oxidation of reduced graphene oxide. RSC Advances, 2016, 6, 105021-105029.	3.6	81
76	Novel incorporation of mesoporous NiCo ₂ O ₄ into thermoplastic polyurethane for enhancing its fire safety. RSC Advances, 2016, 6, 109620-109632.	3.6	16
77	Electrical conductive and graphitizable polymer nanofibers grafted on graphene nanosheets: Improving electrical conductivity and flame retardancy of polypropylene. Composites Part A: Applied Science and Manufacturing, 2016, 84, 76-86.	7.6	49
78	Mechanism for increased thermal instability and fire risk of graphite oxide containing metal salts. Materials Letters, 2016, 167, 197-200.	2.6	11
79	Boron/phosphorus doping for retarding the oxidation of reduced graphene oxide. Carbon, 2016, 101, 152-158.	10.3	83
80	A facile method to prepare reduced graphene oxide with a large pore volume. Materials Letters, 2016, 162, 154-156.	2.6	16
81	High-Performance Poly(ethylene oxide)/Molybdenum Disulfide Nanocomposite Films: Reinforcement of Properties Based on the Gradient Interface Effect. ACS Applied Materials & Interfaces, 2015, 7, 13164-13173.	8.0	58
82	Enhanced flame retardancy of polypropylene by melamine-modified graphene oxide. Journal of Materials Science, 2015, 50, 5389-5401.	3.7	60
83	Preparation of layered graphitic carbon nitride/montmorillonite nanohybrids for improving thermal stability of sodium alginate nanocomposites. RSC Advances, 2015, 5, 11761-11765.	3.6	10
84	Click-chemistry approach for graphene modification: effective reinforcement of UV-curable functionalized graphene/polyurethane acrylate nanocomposites. RSC Advances, 2015, 5, 13502-13506.	3.6	21
85	Enhanced thermal and flame retardant properties of flame-retardant-wrapped graphene/epoxy resin nanocomposites. Journal of Materials Chemistry A, 2015, 3, 8034-8044.	10.3	371
86	A facile method to fabricate superoleophilic and hydrophobic polyurethane foam for oil/water separation. Materials Letters, 2015, 159, 345-348.	2.6	22
87	Solid acid-reduced graphene oxide nanohybrid for enhancing thermal stability, mechanical property and flame retardancy of polypropylene. RSC Advances, 2015, 5, 41307-41316.	3.6	40
88	Effect of Functionalized Graphene Oxide with Organophosphorus Oligomer on the Thermal and Mechanical Properties and Fire Safety of Polystyrene. Industrial & Engineering Chemistry Research, 2015, 54, 3309-3319.	3.7	34
89	Flame retardant and anti-dripping properties of polylactic acid/poly(bis(phenoxy)phosphazene)/expandable graphite composite and its flame retardant mechanism. RSC Advances, 2015, 5, 76068-76078.	3.6	46
90	Construction of organic-inorganic hybrid nano-coatings containing zirconium phosphate with high efficiency for reducing fire hazards of flexible polyurethane foam. Materials Chemistry and Physics, 2015, 163, 107-115.	4.0	38

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91	Design of artificial nacre-like hybrid films as shielding to mitigate electromagnetic pollution. Carbon, 2014, 75, 178-189.	10.3	103
92	Preparation of functionalized graphene oxide/polypropylene nanocomposite with significantly improved thermal stability and studies on the crystallization behavior and mechanical properties. Chemical Engineering Journal, 2014, 237, 411-420.	12.7	341
93	Synergetic Dispersion Effect of Graphene Nanohybrid on the Thermal Stability and Mechanical Properties of Ethylene Vinyl Acetate Copolymer Nanocomposite. Industrial & Engineering Chemistry Research, 2014, 53, 1143-1149.	3.7	44
94	One-pot synthesis of a novel s-triazine-based hyperbranched charring foaming agent and its enhancement on flame retardancy and water resistance of polypropylene. Polymer Degradation and Stability, 2014, 110, 165-174.	5.8	67
95	A facile approach to prepare graphene via solvothermal reduction of graphite oxide. Materials Research Bulletin, 2014, 55, 48-52.	5.2	33
96	Bismuth subcarbonate nanoplates for thermal stability, fire retardancy and smoke suppression applications in polymers: A new strategy. Polymer Degradation and Stability, 2014, 107, 1-9.	5.8	22
97	Novel organic-inorganic flame retardants containing exfoliated graphene: preparation and their performance on the flame retardancy of epoxy resins. Journal of Materials Chemistry A, 2013, 1, 6822.	10.3	163
98	Functionalized graphene oxide for fire safety applications of polymers: a combination of condensed phase flame retardant strategies. Journal of Materials Chemistry, 2012, 22, 23057.	6.7	154
99	Preparation of graphene by pressurized oxidation and multiplex reduction and its polymer nanocomposites by masterbatch-based melt blending. Journal of Materials Chemistry, 2012, 22, 6088.	6.7	366
100	Preparation and Characterization of Flame-Retardant Aluminum Hypophosphite/Poly(Vinyl Alcohol) Composite. Industrial & Engineering Chemistry Research, 2012, 51, 14065-14075.	3.7	50
101	Graphite oxide, graphene, and metal-loaded graphene for fire safety applications of polystyrene. Journal of Materials Chemistry, 2012, 22, 16399.	6.7	126
102	Radiation Cured Epoxy Acrylate Composites Based on Graphene, Graphite Oxide and Functionalized Graphite Oxide with Enhanced Properties. Journal of Nanoscience and Nanotechnology, 2012, 12, 1776-1791.	0.9	8
103	In Situ Polymerization of Graphene, Graphite Oxide, and Functionalized Graphite Oxide into Epoxy Resin and Comparison Study of On-the-Flame Behavior. Industrial & Engineering Chemistry Research, 2011, 50, 7772-7783.	3.7	290
104	Facile Synthesis of Poly(vinyl alcohol)/ γ -Titanium Phosphate Nanocomposite with Markedly Enhanced Properties. Industrial & Engineering Chemistry Research, 2011, 50, 11109-11116.	3.7	22