

Bihe Yuan

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104
papers

4,543
citations

36
h-index

65
g-index

104
ext. papers

5,524
ext. citations

6
avg, IF

5.92
L-index

#	Paper	IF	Citations
104	Preparation of graphene by pressurized oxidation and multiplex reduction and its polymer nanocomposites by masterbatch-based melt blending. <i>Journal of Materials Chemistry</i> , 2012 , 22, 6088		342
103	Enhanced thermal and flame retardant properties of flame-retardant-wrapped graphene/epoxy resin nanocomposites. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 8034-8044	13	317
102	Preparation of functionalized graphene oxide/polypropylene nanocomposite with significantly improved thermal stability and studies on the crystallization behavior and mechanical properties. <i>Chemical Engineering Journal</i> , 2014 , 237, 411-420	14.7	289
101	In Situ Polymerization of Graphene, Graphite Oxide, and Functionalized Graphite Oxide into Epoxy Resin and Comparison Study of On-the-Flame Behavior. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 7772-7783	3.9	257
100	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	8.4	221
99	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	4.7	156
98	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	8.4	139
97	A novel strategy to simultaneously electrochemically prepare and functionalize graphene with a multifunctional flame retardant. <i>Chemical Engineering Journal</i> , 2017 , 316, 514-524	14.7	138
96	Novel organic/inorganic flame retardants containing exfoliated graphene: preparation and their performance on the flame retardancy of epoxy resins. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 6822	13	136
95	Functionalized graphene oxide for fire safety applications of polymers: a combination of condensed phase flame retardant strategies. <i>Journal of Materials Chemistry</i> , 2012 , 22, 23057		128
94	Graphite oxide, graphene, and metal-loaded graphene for fire safety applications of polystyrene. <i>Journal of Materials Chemistry</i> , 2012 , 22, 16399		117
93	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	12.8	108
92	Effect of heat treatment on hydrophobic silica aerogel. <i>Journal of Hazardous Materials</i> , 2019 , 362, 294-302	2.8	90
91	Design of artificial nacre-like hybrid films as shielding to mitigate electromagnetic pollution. <i>Carbon</i> , 2014 , 75, 178-189	10.4	85
90	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	8.4	72
89	Suppression of wood dust explosion by ultrafine magnesium hydroxide. <i>Journal of Hazardous Materials</i> , 2019 , 378, 120723	12.8	69
88	Novel Melamine/o-Phthalaldehyde Covalent Organic Frameworks Nanosheets: Enhancement Flame Retardant and Mechanical Performances of Thermoplastic Polyurethanes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 23017-23026	9.5	67

87	Boron/phosphorus doping for retarding the oxidation of reduced graphene oxide. <i>Carbon</i> , 2016 , 101, 152-158	10.4	67
86	Facile preparation of N-doped activated carbon produced from rice husk for CO capture. <i>Journal of Colloid and Interface Science</i> , 2021 , 582, 90-101	9.3	59
85	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	9.3	56
84	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	3.5	54
83	The effect of doped heteroatoms (nitrogen, boron, phosphorus) on inhibition thermal oxidation of reduced graphene oxide. <i>RSC Advances</i> , 2016 , 6, 105021-105029	3.7	50
82	One-pot synthesis of a novel s-triazine-based hyperbranched charring foaming agent and its enhancement on flame retardancy and water resistance of polypropylene. <i>Polymer Degradation and Stability</i> , 2014 , 110, 165-174	4.7	49
81	Enhanced flame retardancy of polypropylene by melamine-modified graphene oxide. <i>Journal of Materials Science</i> , 2015 , 50, 5389-5401	4.3	49
80	High-Performance Poly(ethylene oxide)/Molybdenum Disulfide Nanocomposite Films: Reinforcement of Properties Based on the Gradient Interface Effect. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 13164-73	9.5	48
79	Surface modification of ammonium polyphosphate by supramolecular assembly for enhancing fire safety properties of polypropylene. <i>Composites Part B: Engineering</i> , 2020 , 181, 107588	10	47
78	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	3.9	42
77	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	3.9	41
76	Synergetic Dispersion Effect of Graphene Nanohybrid on the Thermal Stability and Mechanical Properties of Ethylene Vinyl Acetate Copolymer Nanocomposite. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 1143-1149	3.9	41
75	Flame-retardant polyvinyl alcohol/cellulose nanofibers hybrid carbon aerogel by freeze drying with ultra-low phosphorus. <i>Applied Surface Science</i> , 2019 , 497, 143775	6.7	40
74	Flame retardant and anti-dripping properties of polylactic acid/poly(bis(phenoxy)phosphazene)/expandable graphite composite and its flame retardant mechanism. <i>RSC Advances</i> , 2015 , 5, 76068-76078	3.7	40
73	Preparation and Characterization of Flame-Retardant Aluminum Hypophosphite/Poly(Vinyl Alcohol) Composite. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 14065-14075	3.9	40
72	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	12.8	39
71	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	10	39
70	Electrical conductive and graphitizable polymer nanofibers grafted on graphene nanosheets: Improving electrical conductivity and flame retardancy of polypropylene. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 84, 76-86	8.4	38

69	Solid acid-reduced graphene oxide nano-hybrid for enhancing thermal stability, mechanical property and flame retardancy of polypropylene. <i>RSC Advances</i> , 2015 , 5, 41307-41316	3-7	36
68	Construction of organic-organic hybrid nano-coatings containing Zirconium phosphate with high efficiency for reducing fire hazards of flexible polyurethane foam. <i>Materials Chemistry and Physics</i> , 2015 , 163, 107-115	4-4	35
67	A single Z-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	4-4	33
66	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	3-5	33
65	Nacre-like graphene oxide paper bonded with boric acid for fire early-warning sensor. <i>Journal of Hazardous Materials</i> , 2021 , 403, 123645	12.8	32
64	Suppression of methane/air explosion by kaolinite-based multi-component inhibitor. <i>Powder Technology</i> , 2019 , 343, 279-286	5-2	30
63	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	29
62	Atherton-Ullmann 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	8.4	27
61	Inhibition of diammonium phosphate on the wheat dust explosion. <i>Powder Technology</i> , 2020 , 367, 751-761	5-1	26
60	Effect of Functionalized Graphene Oxide with Organophosphorus Oligomer on the Thermal and Mechanical Properties and Fire Safety of Polystyrene. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 3309-3319	3-9	25
59	A facile approach to prepare graphene via solvothermal reduction of graphite oxide. <i>Materials Research Bulletin</i> , 2014 , 55, 48-52	5-1	25
58	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	12.8	24
57	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	8.1	24
56	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	3-9	23
55	Suppression characteristics of double-layer wire mesh on wheat dust flame. <i>Powder Technology</i> , 2020 , 360, 231-240	5-2	22
54	Self S-doping activated carbon derived from lignin-based pitch for removal of gaseous benzene. <i>Chemical Engineering Journal</i> , 2021 , 410, 128286	14.7	22
53	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	9.3	22
52	Two-Dimensional Metal Phenylphosphonates as Novel Flame Retardants for Polystyrene. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 7192-7206	3-9	21

51	Enhanced fire-retardancy of poly(ethylene vinyl acetate) electrical cable coatings containing microencapsulated ammonium polyphosphate as intumescent flame retardant. <i>RSC Advances</i> , 2016 , 6, 85564-85573	3.7	21
50	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	9.3	20
49	Bismuth subcarbonate nanoplates for thermal stability, fire retardancy and smoke suppression applications in polymers: A new strategy. <i>Polymer Degradation and Stability</i> , 2014 , 107, 1-9	4.7	20
48	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	3.5	19
47	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	5.5	19
46	MoO ₃ -ZrO ₂ solid acid for enhancement in the efficiency of intumescent flame retardant. <i>Powder Technology</i> , 2019 , 344, 581-589	5.2	19
45	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	3.9	18
44	A facile method to fabricate superoleophilic and hydrophobic polyurethane foam for oil-water separation. <i>Materials Letters</i> , 2015 , 159, 345-348	3.3	18
43	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	3.5	18
42	Facile Synthesis of Poly(vinyl alcohol)/Titanium Phosphate Nanocomposite with Markedly Enhanced Properties. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 11109-11116	3.9	17
41	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	12.8	17
40	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	6	17
39	Click-chemistry approach for graphene modification: effective reinforcement of UV-curable functionalized graphene/polyurethane acrylate nanocomposites. <i>RSC Advances</i> , 2015 , 5, 13502-13506	3.7	16
38	Fast preparation of glass fiber/silica aerogel blanket in ethanol & water solvent system. <i>Journal of Non-Crystalline Solids</i> , 2019 , 505, 286-291	3.9	16
37	A facile method to prepare reduced graphene oxide with a large pore volume. <i>Materials Letters</i> , 2016 , 162, 154-156	3.3	15
36	Fundamental investigation on the effects of ammonium polyphosphate on flame propagation behaviors of starch dust deflagration. <i>Powder Technology</i> , 2020 , 360, 411-420	5.2	15
35	Flammability of polystyrene/aluminum phosphinate composites containing modified ammonium polyphosphate. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018 , 131, 1067-1077	4.1	15
34	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	4.4	13

33	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	3.5	13
32	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	5.2	12
31	Novel incorporation of mesoporous NiCo ₂ O ₄ into thermoplastic polyurethane for enhancing its fire safety. <i>RSC Advances</i> , 2016 , 6, 109620-109632	3.7	12
30	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	4.4	10
29	Mechanism for increased thermal instability and fire risk of graphite oxide containing metal salts. <i>Materials Letters</i> , 2016 , 167, 197-200	3.3	10
28	Effects of partial inerting on flame structures of starch dust deflagration in duct. <i>Powder Technology</i> , 2020 , 373, 46-57	5.2	9
27	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	9
26	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}	3.2	9
25	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	8
24	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	8
23	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	4.7	8
22	Radiation cured epoxy acrylate composites based on graphene, graphite oxide and functionalized graphite oxide with enhanced properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 1776-91 ^{1,3}	1.3	7
21	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	7
20	The effect of carbon nanotubes/NiFe ₂ O ₄ on the thermal stability, combustion behavior and mechanical properties of unsaturated polyester resin. <i>RSC Advances</i> , 2016 , 6, 96974-96983	3.7	7
19	Preparation of layered graphitic carbon nitride/montmorillonite nanohybrids for improving thermal stability of sodium alginate nanocomposites. <i>RSC Advances</i> , 2015 , 5, 11761-11765	3.7	6
18	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	5.5	5
17	Synergistic effect of layered melamine-phytate and intumescent flame retardant on enhancing fire safety of polypropylene. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 1	4.1	4
16	Characteristics of wheat dust flame with the influence of ceramic foam. <i>Advanced Powder Technology</i> , 2020 , 31, 3570-3581	4.6	4

15	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	3.2	4
14	Graphene oxide/chitosan nano-coating with ultrafast fire-alarm response and flame-retardant property. <i>Polymers for Advanced Technologies</i> ,	3.2	3
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	2.5	3
12	Serendipity discovery of fire early warning function of chitosan film. <i>Carbohydrate Polymers</i> , 2022 , 277, 118884	10.3	2
11	Effect of Obstacles on Flame Propagation Characteristics of Corn Starch Dust. <i>Combustion Science and Technology</i> , 2019 , 191, 2006-2019	1.5	2
10	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> ,1	4.1	2
9	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	3.3	2
8	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	3.5	1
7	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	2.5	1
6	Facile fabrication of porous fire-resistant graphene macro-assembly with outstanding electromagnetic interference shielding performance. <i>Materials Letters</i> , 2021 , 299, 130055	3.3	1
5	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	6.7	1
4	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	8.4	1
3	Improving the Fire Performance of Structural Insulated Panel Core Materials with Intumescent Flame-Retardant Epoxy Resin Adhesive. <i>Fire Technology</i> ,1	3	0
2	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	7.1	0
1	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 , 129326	5.1	0