De-Yi Wang

List of Publications by Year
in descending order

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249 papers	13,941 citations	12322 69 h-index	31818 101 g-index
252 all docs	252 docs citations	252 times ranked	7386 citing authors

#	Article	IF	Citations
1	Bio-based materials for fire-retardant application in construction products: a review. Journal of Thermal Analysis and Calorimetry, 2022, 147, 6563-6582.	2.0	11
2	Quasi-solid-state sodium-ion hybrid capacitors enabled by UiO-66@PVDF-HFP multifunctional separators: Selective charge transfer and high fire safety. Chemical Engineering Journal, 2022, 427, 130919.	6.6	22
3	Thermal stability and pyrolysis behavior of an efficient fire-retarded polypropylene containing allylamine polyphosphate and pentaerythritol. Thermochimica Acta, 2022, 708, 179083.	1.2	4
4	Surface engineering for cellulose as a boosted Layer-by-Layer assembly: Excellent flame retardancy and improved durability with introduction of bio-based â€œmolecular glueâ€• Applied Surface Science, 2022, 585, 152550.	3.1	11
5	Reversible 1:1 Inclusion Complexes of C₆₀ Derivatives in Î±- and Î²-Cyclodextrins: Implications for Molecular Recognition-Based Sensing and Supramolecular Assembly. ACS Applied Nano Materials, 2022, 5, 149-159.	2.4	5
6	Magnesium hydroxide microâ€whiskers as superâ€reinforcer to improve fire retardancy and mechanical property of epoxy resin. Polymer Composites, 2022, 43, 1996-2009.	2.3	6
7	Flame-retardant strategy and mechanism of fiber reinforced polymeric composite: A review. Composites Part B: Engineering, 2022, 233, 109663.	5.9	78
8	In-situ coprecipitation formed Fe/Zn-layered double hydroxide/ammonium polyphosphate hybrid material for flame retardant epoxy resin via synergistic catalytic charring. Composites Part A: Applied Science and Manufacturing, 2022, 155, 106841.	3.8	54
9	Toward a New Generation of Fireâ€Safe Energy Storage Devices: Recent Progress on Fireâ€Retardant Materials and Strategies for Energy Storage Devices. Small Methods, 2022, 6, e2101428.	4.6	12
10	Effect of high-energy electrons on the thermal, mechanical and fire safety properties of fire-retarded polypropylene nanocomposites. Radiation Physics and Chemistry, 2022, 194, 110016.	1.4	3
11	Flame-retardant wood plastic composites. , 2022, , 117-136.		1
12	Highly efficient flame retardant and smoke suppression mechanism of polypropylene nanocomposites based on clay and allylamine polyphosphate. Journal of Applied Polymer Science, 2022, 139, .	1.3	6
13	Surface Modification of Ammonium Polyphosphate for Enhancing Flame-Retardant Properties of Thermoplastic Polyurethane. Materials, 2022, 15, 1990.	1.3	10
14	Biomass-based coating from chitosan for cotton fabric with excellent flame retardancy and improved durability. Cellulose, 2022, 29, 5289-5303.	2.4	23
15	Shape-stable and smart polyrotaxane-based phase change materials with enhanced flexibility and fire-safety. European Polymer Journal, 2022, 173, 111262.	2.6	5
16	A facile technique to investigate the char strength and fire retardant performance towards intumescent epoxy nanocomposites containing different synergists. Polymer Degradation and Stability, 2022, 202, 110000.	2.7	6
17	A novel highly-efficient bio-based fire retardant for poly (lactic acid): Synthesis, preparation, property and mechanism. Chemical Engineering Journal, 2022, 446, 137092.	6.6	24
18	â€œSloughingâ€•of metal-organic framework retaining nanodots via step-by-step carving and its flame-retardant effect in epoxy resin. Chemical Engineering Journal, 2022, 448, 137666.	6.6	32

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19	Development of multifunctional highly-efficient bio-based fire-retardant poly(lactic acid) composites for simultaneously improving thermal, crystallization and fire safety properties. International Journal of Biological Macromolecules, 2022, 215, 646-656.	3.6	10
20	Smart Low-temperature responsive fire alarm based on MXene/Graphene oxide film with wireless transmission: Remote real-time luminosity detection. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 651, 129641.	2.3	15
21	A facile and robust route to polyvinyl alcohol-based triboelectric nanogenerator containing flame-retardant polyelectrolyte with improved output performance and fire safety. Nano Energy, 2021, 81, 105656.	8.2	56
22	Bio-based rigid polyurethane foam from castor oil with excellent flame retardancy and high insulation capacity via cooperation with carbon-based materials. Journal of Materials Science, 2021, 56, 2684-2701.	1.7	44
23	Spatial inhomogeneity, interfaces and complex vitrification kinetics in a network forming nanocomposite. Soft Matter, 2021, 17, 2775-2790.	1.2	20
24	Basalt Fiber-Based Flame Retardant Epoxy Composites: Preparation, Thermal Properties, and Flame Retardancy. Materials, 2021, 14, 902.	1.3	12
25	Construction of a novel three-in-one biomass based intumescent fire retardant through phosphorus functionalized metal-organic framework and Î²-cyclodextrin hybrids in achieving fire safe epoxy. Composites Communications, 2021, 23, 100594.	3.3	31
26	Low-melting phosphate glasses as flame-retardant synergists to epoxy: Barrier effects vs flame retardancy. Polymer Degradation and Stability, 2021, 185, 109495.	2.7	14
27	Novel Phosphorous-Based Deep Eutectic Solvents for the Production of Recyclable Macadamia Nutshellâ€“Polymer Biocomposites with Improved Mechanical and Fire Safety Performances. ACS Sustainable Chemistry and Engineering, 2021, 9, 4463-4476.	3.2	21
28	Promotion of the flame retardancy of 9,10-dihydro-9-oxa-10-phosphaphenanthrene-10-oxide grafted natural rubber using expandable graphite. Arabian Journal of Chemistry, 2021, 14, 102980.	2.3	6
29	In Situ Ambient Preparation of Perovskite-Poly(<scp>l</scp>-lactic acid) Phosphors for Highly Stable and Efficient Hybrid Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2021, 13, 21800-21809.	4.0	11
30	Highly efficient BiVO4 single-crystal nanosheets with dual modification: phosphorus doping and selective Ag modification. Nanotechnology, 2021, 32, 325701.	1.3	3
31	Combination of Corn Pith Fiber and Biobased Flame Retardant: A Novel Method toward Flame Retardancy, Thermal Stability, and Mechanical Properties of Polylactide. Polymers, 2021, 13, 1562.	2.0	11
32	Calorimetric and Dielectric Investigations of Epoxy-Based Nanocomposites with Halloysite Nanotubes as Nanofillers. Polymers, 2021, 13, 1634.	2.0	15
33	Metal organic frameworks enabled rational design of multifunctional PEO-based solid polymer electrolytes. Chemical Engineering Journal, 2021, 414, 128702.	6.6	58
34	Recyclable flame-retardant epoxy composites based on disulfide bonds: Flammability and recyclability. Composites Communications, 2021, 25, 100754.	3.3	36
35	Nanocarbon-Based Flame Retardant Polymer Nanocomposites. Molecules, 2021, 26, 4670.	1.7	25
36	Recent Progress on Synthesis, Characterization, and Applications of Metal Halide Perovskites@Metal Oxide. Advanced Functional Materials, 2021, 31, 2104634.	7.8	19

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37	Self-cleaning cotton fabrics with good flame retardancy via one-pot approach. Polymer Degradation and Stability, 2021, 192, 109700.	2.7	15
38	A strategy to construct multifunctional ammonium polyphosphate for epoxy resin with simultaneously high fire safety and mechanical properties. Composites Part A: Applied Science and Manufacturing, 2021, 149, 106529.	3.8	67
39	Delamination and Engineered Interlayers of Ti₃C₂ MXenes using Phosphorous Vapor toward Flame-Retardant Epoxy Nanocomposites. ACS Applied Materials & Interfaces, 2021, 13, 48196-48207.	4.0	33
40	Surface Functionalization of Black Phosphorus via Amine Compounds and Its Impacts on the Flame Retardancy and Thermal Decomposition Behaviors of Epoxy Resin. Polymers, 2021, 13, 3635.	2.0	8
41	Chemically inorganic modified ammonium polyphosphate as eco-friendly flame retardant and its high fire safety for epoxy resin. Composites Communications, 2021, 28, 100959.	3.3	31
42	Organophosphorus-Functionalized Zirconium-Based Metalâ€“Organic Framework Nanostructures for Improved Mechanical and Flame Retardant Polymer Nanocomposites. ACS Applied Nano Materials, 2021, 4, 13027-13040.	2.4	21
43	Synthesis of a novel dual layered double hydroxide hybrid nanomaterial and its application in epoxy nanocomposites. Chemical Engineering Journal, 2020, 381, 122777.	6.6	106
44	Bioinspired growth of iron derivatives on mesoporous silica: effect on thermal degradation and fire behavior of polystyrene. Nanotechnology, 2020, 31, 065601.	1.3	3
45	Electrospun submicron NiO fibers combined with nanosized carbon black as reinforcement for multi-functional poly(lactic acid) composites. Composites Part A: Applied Science and Manufacturing, 2020, 129, 105662.	3.8	17
46	Bioinspired iron-loaded polydopamine nanospheres as green flame retardants for epoxy resin via free radical scavenging and catalytic charring. Journal of Materials Chemistry A, 2020, 8, 2529-2538.	5.2	94
47	A sustainable approach to scalable production of a graphene based flame retardant using waste fish deoxyribonucleic acid. Journal of Cleaner Production, 2020, 247, 119150.	4.6	38
48	Green Synthesis of Biomass Phytic Acid-Functionalized UiO-66-NH₂ Hierarchical Hybrids toward Fire Safety of Epoxy Resin. ACS Sustainable Chemistry and Engineering, 2020, 8, 994-1003.	3.2	106
49	Constructing multifunctional nanofiller with reactive interface in PLA/CB-g-DOPO composites for simultaneously improving flame retardancy, electrical conductivity and mechanical properties. Composites Science and Technology, 2020, 188, 107988.	3.8	94
50	Polymer-based ceramifiable composites for flame retardant applications: A review. Composites Communications, 2020, 21, 100405.	3.3	45
51	Epoxy thermosets and materials derived from bio-based monomeric phenols: Transformations and performances. Progress in Polymer Science, 2020, 108, 101287.	11.8	102
52	Surface engineering of magnesium hydroxide via bioinspired iron-loaded polydopamine as green and efficient strategy to epoxy composites with improved flame retardancy and reduced smoke release. Reactive and Functional Polymers, 2020, 155, 104690.	2.0	32
53	Polydopamine-assisted strategies for preparation of fire-safe polymeric materials: A review. European Polymer Journal, 2020, 138, 109973.	2.6	30
54	An Overview of the Flame Retardants for Poly(vinyl chloride): Recent States and Perspective^{â€}. Chinese Journal of Chemistry, 2020, 38, 1870-1896.	2.6	17

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55	Basalt Fiber Modified Ethylene Vinyl Acetate/Magnesium Hydroxide Composites with Balanced Flame Retardancy and Improved Mechanical Properties. Polymers, 2020, 12, 2107.	2.0	29
56	Recent Progress on Metalâ€“Organic Framework and Its Derivatives as Novel Fire Retardants to Polymeric Materials. Nano-Micro Letters, 2020, 12, 173.	14.4	47
57	Hierarchical layered double hydroxide nanosheets/phosphorus-containing organosilane functionalized hollow glass microsphere towards high performance epoxy composite: Enhanced interfacial adhesion and bottom-up charring behavior. Polymer, 2020, 210, 123018.	1.8	21
58	Rationally designed zinc borate@ZIF-8 core-shell nanorods for curing epoxy resins along with low flammability and high mechanical property. Composites Part B: Engineering, 2020, 200, 108349.	5.9	58
59	Low heat yielding electrospun phosphenanthrene oxide loaded polyacrylonitrile composite separators for safer high energy density lithium-ion batteries.. Applied Materials Today, 2020, 20, 100675.	2.3	16
60	Coordinating mechanical performance and fire safety of epoxy resin via functionalized nanodiamond. Diamond and Related Materials, 2020, 108, 107964.	1.8	9
61	Hierarchically tailored hybrids via interfacial-engineering of self-assembled UiO-66 and prussian blue analogue: Novel strategy to impart epoxy high-efficient fire retardancy and smoke suppression. Chemical Engineering Journal, 2020, 400, 125942.	6.6	49
62	Synergistic effect of expandable graphite and phenylphosphonic-aniline salt on flame retardancy of rigid polyurethane foam. Polymer Degradation and Stability, 2020, 179, 109274.	2.7	34
63	Size tailored bimetallic metal-organic framework (MOF) on graphene oxide with sandwich-like structure as functional nano-hybrids for improving fire safety of epoxy. Composites Part B: Engineering, 2020, 188, 107881.	5.9	77
64	Carbon Nanotube/Epoxy Composites for Improved Fire Safety. ACS Applied Nano Materials, 2020, 3, 4253-4264.	2.4	23
65	Dry synthesis of mesoporous nanosheet assembly constructed by cyclomatrix polyphosphazene frameworks and its application in flame retardant polypropylene. Chemical Engineering Journal, 2020, 395, 125076.	6.6	59
66	A bimetallic MOF@graphene oxide composite as an efficient bifunctional oxygen electrocatalyst for rechargeable Znâ€“air batteries. Dalton Transactions, 2020, 49, 5730-5735.	1.6	48
67	Simultaneously improving flame retardancy and dynamic mechanical properties of epoxy resin nanocomposites through synergistic effect of zirconium phenylphosphate and POSS. Journal of Thermal Analysis and Calorimetry, 2019, 135, 2117-2124.	2.0	28
68	Influence of eco-friendly calcium gluconate on the intumescent flame-retardant epoxy resin: Flame retardancy, smoke suppression and mechanical properties. Composites Part B: Engineering, 2019, 176, 107200.	5.9	78
69	Cu(0) and Cu(II) decorated graphene hybrid on improving fireproof efficiency of intumescent flame-retardant epoxy resins. Composites Part B: Engineering, 2019, 175, 107189.	5.9	59
70	Bimetallic metal-organic frameworks and graphene oxide nano-hybrids for enhanced fire retardant epoxy composites: A novel carbonization mechanism. Carbon, 2019, 153, 407-416.	5.4	91
71	Ultrathin iron phenyl phosphonate nanosheets with appropriate thermal stability for improving fire safety in epoxy. Composites Science and Technology, 2019, 182, 107748.	3.8	88
72	An Excellent Intrinsic Transparent Epoxy Resin with High Flame Retardancy: Synthesis, Characterization, and Properties. Macromolecular Materials and Engineering, 2019, 304, 1900254.	1.7	26

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73	Effect of intercalation of layered double hydroxides with sulfonate-containing calix[4]arenes on the flame retardancy of castor oil-based flexible polyurethane foams. Polymer Testing, 2019, 79, 106055.	2.3	27
74	Confined Dispersion of Zinc Hydroxystannate Nanoparticles into Layered Bimetallic Hydroxide Nanocapsules and Its Application in Flame-Retardant Epoxy Nanocomposites. ACS Applied Materials & Interfaces, 2019, 11, 40951-40960.	4.0	65
75	Influence of interfaces on the crystallization behavior and the rigid amorphous phase of poly(l-lactide)-based nanocomposites with different layered doubled hydroxides as nanofiller. Polymer, 2019, 184, 121929.	1.8	21
76	An efficient approach to improving fire retardancy and smoke suppression for intumescent flameâ€retardant polypropylene composites via incorporating organoâ€modified sepiolite. Fire and Materials, 2019, 43, 961-970.	0.9	17
77	Synthesis of K-Carrageenan Flame-Retardant Microspheres and Its Application for Waterborne Epoxy Resin with Functionalized Graphene. Polymers, 2019, 11, 1708.	2.0	15
78	Flame Retardant Polypropylene Composites with Low Densities. Materials, 2019, 12, 152.	1.3	22
79	Influence of the Characteristics of Expandable Graphite on the Morphology, Thermal Properties, Fire Behaviour and Compression Performance of a Rigid Polyurethane Foam. Polymers, 2019, 11, 168.	2.0	50
80	Dielectric and flash DSC investigations on an epoxy based nanocomposite system with MgAl layered double hydroxide as nanofiller. Thermochimica Acta, 2019, 677, 151-161.	1.2	17
81	Bio-based layered double hydroxide nanocarrier toward fire-retardant epoxy resin with efficiently improved smoke suppression. Chemical Engineering Journal, 2019, 378, 122046.	6.6	54
82	Nickel Metalâ€“Organic Framework Derived Hierarchically Mesoporous Nickel Phosphate toward Smoke Suppression and Mechanical Enhancement of Intumescent Flame Retardant Wood Fiber/Poly(lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	7.8	
83	Simultaneous Improvement of Mechanical and Fire-Safety Properties of Polymer Composites with Phosphonate-Loaded MOF Additives. ACS Applied Materials & Interfaces, 2019, 11, 20325-20332.	4.0	71
84	Synthesis, characterization and applications of low temperature melting glasses belonging to P2O5CaO Na2O system. Ceramics International, 2019, 45, 12234-12242.	2.3	13
85	Synthesis and Characterization of Phosphorus- and Carborane-Containing Polyoxanorbornene Block Copolymers. Polymers, 2019, 11, 613.	2.0	8
86	Organophosphorus heteroaromatic compound towards mechanically reinforced and low-flammability epoxy resin. Composites Part B: Engineering, 2019, 168, 458-466.	5.9	69
87	Effect of oxidized wood flour as functional filler on the mechanical, thermal and flame-retardant properties of polylactide biocomposites. Industrial Crops and Products, 2019, 130, 301-309.	2.5	54
88	Impact of expandable graphite on flame retardancy and mechanical properties of rigid polyurethane foam. Polymer Composites, 2019, 40, E1705.	2.3	17
89	Facile fabrication of biobased P N C-containing nano-layered hybrid: Preparation, growth mechanism and its efficient fire retardancy in epoxy. Polymer Degradation and Stability, 2019, 159, 153-162.	2.7	91
90	Large-scale converting waste coffee grounds into functional carbon materials as high-efficient adsorbent for organic dyes. Bioresource Technology, 2019, 272, 92-98.	4.8	78

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91	Flame-retardant wood polymer composites (WPCs) as potential fire safe bio-based materials for building products: Preparation, flammability and mechanical properties. Fire Safety Journal, 2019, 107, 210-216.	1.4	59
92	Construction of chelation structure between Ca2+ and starch via reactive extrusion for improving the performances of thermoplastic starch. Composites Science and Technology, 2018, 159, 59-69.	3.8	37
93	Studies on intumescent flame retardant polypropylene composites based on biodegradable wheat straw. Fire and Materials, 2018, 42, 703-709.	0.9	13
94	Ultrafine nickel nanocatalyst-engineering of an organic layered double hydroxide towards a super-efficient fire-safe epoxy resin via interfacial catalysis. Journal of Materials Chemistry A, 2018, 6, 8488-8498.	5.2	101
95	Role of lignin nanoparticles in UV resistance, thermal and mechanical performance of PMMA nanocomposites prepared by a combined free-radical graft polymerization/masterbatch procedure. Composites Part A: Applied Science and Manufacturing, 2018, 107, 61-69.	3.8	83
96	Simultaneously improving the fire safety and mechanical properties of epoxy resin with Fe-CNTs via large-scale preparation. Journal of Materials Chemistry A, 2018, 6, 6376-6386.	5.2	183
97	Simultaneously improving flame retardancy and dynamic mechanical properties of epoxy resin nanocomposites through layered copper phenylphosphate. Composites Science and Technology, 2018, 154, 136-144.	3.8	146
98	Effect of phytic acidâ€“modified layered double hydroxide on flammability and mechanical properties of intumescent flame retardant polypropylene system. Fire and Materials, 2018, 42, 213-220.	0.9	49
99	Mesoporous metal oxide/pyrophosphate hybrid originated from reutilization of water treatment resin as a novel fire hazard suppressant. Materials Chemistry and Physics, 2018, 203, 49-57.	2.0	24
100	Covalent assembly of MCM-41 nanospheres on graphene oxide for improving fire retardancy and mechanical property of epoxy resin. Composites Part B: Engineering, 2018, 138, 101-112.	5.9	79
101	Insightful investigation of smoke suppression behavior and mechanism of polystyrene with ferrocene: An important role of intermediate smoke. Fire and Materials, 2018, 42, 286-295.	0.9	17
102	Renewable vanillin based flame retardant for poly(lactic acid): a way to enhance flame retardancy and toughness simultaneously. RSC Advances, 2018, 8, 42189-42199.	1.7	48
103	Bio-inspired engineering of boron nitride with iron-derived nanocatalyst toward enhanced fire retardancy of epoxy resin. Polymer Degradation and Stability, 2018, 157, 119-130.	2.7	47
104	A Geometry Effect of Carbon Nanomaterials on Flame Retardancy and Mechanical Properties of Ethylene-Vinyl Acetate/Magnesium Hydroxide Composites. Polymers, 2018, 10, 1028.	2.0	15
105	Structure mediation and ductility enhancement of poly(l-lactide) by random copolymer poly(d-lactide-co-Îµ-caprolactone). Journal of Polymer Engineering, 2018, 38, 819-826.	0.6	3
106	Interfacial engineering of layered double hydroxide toward epoxy resin with improved fire safety and mechanical property. Composites Part B: Engineering, 2018, 152, 336-346.	5.9	58
107	Influence of phenylphosphonic amide on rheological, mechanical and flammable properties of carbon fiber/RTM6 composites. Composites Part B: Engineering, 2018, 149, 74-81.	5.9	25
108	Biobased Epoxy Resin with Low Electrical Permissivity and Flame Retardancy: From Environmental Friendly High-Throughput Synthesis to Properties. ACS Sustainable Chemistry and Engineering, 2018, 6, 8856-8867.	3.2	119

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109	Core-shell flame retardant/graphene oxide hybridï¼š a self-assembly strategy towards reducing fire hazard and improving toughness of polylactic acid. Composites Science and Technology, 2018, 165, 161-167.	3.8	97
110	Polydopamine induced natural fiber surface functionalization: a way towards flame retardancy of flax/poly(lactic acid) biocomposites. Composites Part B: Engineering, 2018, 154, 56-63.	5.9	108
111	Effect of stereocomplex crystal and flexible segments on the crystallization and tensile behavior of poly(<scp>l</scp>-lactide). RSC Advances, 2018, 8, 28453-28460.	1.7	10
112	A novel oligomer containing DOPO and ferrocene groups: Synthesis, characterization, and its application in fire retardant epoxy resin. Polymer Degradation and Stability, 2018, 156, 111-124.	2.7	63
113	Novel Dihydroxy-Containing Ammonium Phosphate Based Poly(Lactic Acid): Synthesis, Characterization and Flame Retardancy. Polymers, 2018, 10, 871.	2.0	9
114	High-performance carrageenan film based on carrageenan intercalated layered double hydroxide with enhanced properties: Fire safety, thermal stability and barrier effect. Composites Communications, 2018, 9, 1-5.	3.3	8
115	Flame retardancy and thermal degradation properties of cotton/alginate fabric. Journal of Thermal Analysis and Calorimetry, 2017, 127, 1543-1551.	2.0	28
116	Effect of Fe₃O₄â€doped sepiolite on the flammability and thermal degradation properties of epoxy composites. Polymers for Advanced Technologies, 2017, 28, 971-978.	1.6	24
117	Effect on thermal and combustion behaviors of montmorillonite intercalation nickel compounds in polypropylene/IFR system. Polymers for Advanced Technologies, 2017, 28, 965-970.	1.6	21
118	Combined effects of ammonium polyphosphate and talc on the fire and mechanical properties of epoxy/glass fabric composites. Composites Part B: Engineering, 2017, 113, 381-390.	5.9	70
119	Interfacial engineering of renewable metal organic framework derived honeycomb-like nanoporous aluminum hydroxide with tunable porosity. Chemical Science, 2017, 8, 3399-3409.	3.7	36
120	Carbon-family materials for flame retardant polymeric materials. Progress in Polymer Science, 2017, 69, 22-46.	11.8	406
121	Ring-Opening Copolymerization of Mixed Cyclic Monomers: A Facile, Versatile and Structure-Controllable Approach to Preparing Poly(methylphenylsiloxane) with Enhanced Thermal Stability. Industrial & Engineering Chemistry Research, 2017, 56, 7120-7130.	1.8	12
122	Inclusion complex between beta-cyclodextrin and phenylphosphonicdiamide as novel bio-based flame retardant to epoxy: Inclusion behavior, characterization and flammability. Materials and Design, 2017, 114, 623-632.	3.3	60
123	Natural halloysite nanotube based functionalized nanohybrid assembled via phosphorus-containing slow release method: A highly efficient way to impart flame retardancy to polylactide. European Polymer Journal, 2017, 93, 458-470.	2.6	51
124	Fabrication of low-fire-hazard flexible poly (vinyl chloride) via reutilization of heavy metal biosorbents. Journal of Hazardous Materials, 2017, 339, 143-153.	6.5	29
125	Nano-architectured mesoporous silica decorated with ultrafine Co3O4 toward an efficient way to delaying ignition and improving fire retardancy of polystyrene. Materials and Design, 2017, 129, 69-81.	3.3	30
126	Effect of nitrogen and oxygen doped carbon nanotubes on flammability of epoxy nanocomposites. Carbon, 2017, 121, 193-200.	5.4	36

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127	Functional organoclay with high thermal stability and its synergistic effect on intumescent flame retardant polypropylene. Applied Clay Science, 2017, 143, 192-198.	2.6	30
128	Highly thermally conductive flame-retardant epoxy nanocomposites with reduced ignitability and excellent electrical conductivities. Composites Science and Technology, 2017, 139, 83-89.	3.8	356
129	Ferrocene-Based Nonphosphorus Copolymer: Synthesis, High-Charring Mechanism, and Its Application in Fire Retardant Epoxy Resin. Industrial & Engineering Chemistry Research, 2017, 56, 12630-12643.	1.8	27
130	Functionalized allylamine polyphosphate as a novel multifunctional highly efficient fire retardant for polypropylene. Polymer Chemistry, 2017, 8, 6309-6318.	1.9	30
131	Structureâ€“Property Relationships of Nanocomposites Based on Polylactide and Layered Double Hydroxides â€“ Comparison of MgAl and NiAl LDH as Nanofiller. Macromolecular Chemistry and Physics, 2017, 218, 1700232.	1.1	26
132	Interfacial growth of MOF-derived layered double hydroxide nanosheets on graphene slab towards fabrication of multifunctional epoxy nanocomposites. Chemical Engineering Journal, 2017, 330, 1222-1231.	6.6	84
133	A facile approach towards large-scale synthesis of hierarchically nanoporous SnO2@Fe2O3 0D/1D hybrid and its effect on flammability, thermal stability and mechanical property of flexible poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock		
134	Influence of phenylphosphonate based flame retardant on epoxy/glass fiber reinforced composites (GRE): Flammability, mechanical and thermal stability properties. Composites Part B: Engineering, 2017, 110, 511-519.	5.9	47
135	Crystallization behavior of nanocomposites based on poly(l-lactide) and MgAl layered double hydroxides â€“ Unbiased determination of the rigid amorphous phases due to the crystals and the nanofiller. Polymer, 2017, 108, 257-264.	1.8	54
136	Bioinspired polydopamine-induced assembly of ultrafine Fe(OH)₃ nanoparticles on halloysite toward highly efficient fire retardancy of epoxy resin via an action of interfacial catalysis. Polymer Chemistry, 2017, 8, 3926-3936.	1.9	69
137	Effect of Cellulose Nanocrystals on Fire, Thermal and Mechanical Behavior of N,N'-Diallyl-phenylphosphoricdiamide Modified Poly(lactic acid). Journal of Renewable Materials, 2017, 5, 423-434.	1.1	6
138	Hierarchical nanoporous silica doped with tin as novel multifunctional hybrid material to flexible poly(vinyl chloride) with greatly improved flame retardancy and mechanical properties. Chemical Engineering Journal, 2016, 295, 451-460.	6.6	45
139	Synthesis of a Fe₃O₄ Nanosphere@Mgâ€“Al Layered-Double-Hydroxide Hybrid and Application in the Fabrication of Multifunctional Epoxy Nanocomposites. Industrial & Engineering Chemistry Research, 2016, 55, 6634-6642.	1.8	73
140	Ultrastiff Biobased Epoxy Resin with High T_g and Low Permittivity: From Synthesis to Properties. ACS Sustainable Chemistry and Engineering, 2016, 4, 2869-2880.	3.2	161
141	Sustainable, Biobased Silicone with Layered Double Hydroxide Hybrid and Their Application in Natural-Fiber Reinforced Phenolic Composites with Enhanced Performance. ACS Sustainable Chemistry and Engineering, 2016, 4, 3113-3121.	3.2	41
142	Transglutaminase catalyzed hydrolyzed wheat gliadin grafted with chitosan oligosaccharide and its characterization. Carbohydrate Polymers, 2016, 153, 105-114.	5.1	22
143	Study of the synergistic effect of nickel phosphate nanotubes (NiPO-NT) on intumescent flame retardant polypropylene composites. Journal of Thermal Analysis and Calorimetry, 2016, 126, 1323-1330.	2.0	28
144	Impact of halogen-free flame retardant with varied phosphorus chemical surrounding on the properties of diglycidyl ether of bisphenol-A type epoxy resin: synthesis, fire behaviour, flame-retardant mechanism and mechanical properties. RSC Advances, 2016, 6, 59226-59236.	1.7	89

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145	Multifunctional intercalation in layered double hydroxide: toward multifunctional nanohybrids for epoxy resin. Journal of Materials Chemistry A, 2016, 4, 2147-2157.	5.2	131
146	Effect of reactive time on flame retardancy and thermal degradation behavior of bio-based zinc alginate film. Polymer Degradation and Stability, 2016, 127, 20-31.	2.7	44
147	Few layered Co(OH)₂ultrathin nanosheet-based polyurethane nanocomposites with reduced fire hazard: from eco-friendly flame retardance to sustainable recycling. Green Chemistry, 2016, 18, 3066-3074.	4.6	171
148	Effect of N,Nâ€²-diallyl-phenylphosphoricdiamide on ease of ignition, thermal decomposition behavior and mechanical properties of poly (lactic acid). Polymer Degradation and Stability, 2016, 127, 2-10.	2.7	33
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