Sheng Zhang

List of Publications by Year
in descending order

178 papers	6,813 citations	61857 43 h-index	82410 72 g-index
180 all docs	180 docs citations	180 times ranked	5753 citing authors

#	Article	IF	Citations
1	A review of flame retardant polypropylene fibres. Progress in Polymer Science, 2003, 28, 1517-1538.	11.8	490
2	Graphene Decorated with PtAu Alloy Nanoparticles: Facile Synthesis and Promising Application for Formic Acid Oxidation. Chemistry of Materials, 2011, 23, 1079-1081.	3.2	366
3	Polyelectrolyte-Induced Reduction of Exfoliated Graphite Oxide: A Facile Route to Synthesis of Soluble Graphene Nanosheets. ACS Nano, 2011, 5, 1785-1791.	7.3	293
4	Recent progress in nanostructured electrocatalysts for PEM fuel cells. Journal of Materials Chemistry A, 2013, 1, 4631.	5.2	172
5	Carbon nanotubes decorated with Pt nanoparticles via electrostatic self-assembly: a highly active oxygen reduction electrocatalyst. Journal of Materials Chemistry, 2010, 20, 2826.	6.7	153
6	The effect of chitosan on the flammability and thermal stability of polylactic acid/ammonium polyphosphate biocomposites. Carbohydrate Polymers, 2017, 157, 1586-1593.	5.1	143
7	Preparation and characterization of chitosan derivatives and their application as flame retardants in thermoplastic polyurethane. Carbohydrate Polymers, 2017, 167, 356-363.	5.1	120
8	Preparation of a Novel Intumescent Flame Retardant Based on Supramolecular Interactions and Its Application in Polyamide 11. ACS Applied Materials & Interfaces, 2017, 9, 24964-24975.	4.0	117
9	Preparation of cobalt-based metal organic framework and its application as synergistic flame retardant in thermoplastic polyurethane (TPU). Composites Part B: Engineering, 2020, 182, 107498.	5.9	115
10	Synthesis, Characterization, and Utilization of a Novel Phosphorus/Nitrogen-Containing Flame Retardant. Industrial & Engineering Chemistry Research, 2015, 54, 2974-2982.	1.8	114
11	Intercalation of phosphotungstic acid into layered double hydroxides by reconstruction method and its application in intumescent flame retardant poly (lactic acid) composites. Polymer Degradation and Stability, 2018, 147, 142-150.	2.7	114
12	High photocatalytic performance of high concentration Al-doped ZnO nanoparticles. Separation and Purification Technology, 2017, 172, 236-241.	3.9	112
13	The novel application of chitosan: Effects of cross-linked chitosan on the fire performance of thermoplastic polyurethane. Carbohydrate Polymers, 2018, 189, 313-321.	5.1	109
14	The fire performance of polylactic acid containing a novel intumescent flame retardant and intercalated layered double hydroxides. Journal of Materials Science, 2017, 52, 12235-12250.	1.7	108
15	Rapid adsorption of 2,4-dichlorophenoxyacetic acid by iron oxide nanoparticles-doped carboxylic ordered mesoporous carbon. Journal of Colloid and Interface Science, 2015, 445, 1-8.	5.0	93
16	Stabilization of platinum nanoparticle electrocatalysts for oxygen reduction using poly(diallyldimethylammonium chloride). Journal of Materials Chemistry, 2009, 19, 7995.	6.7	87
17	Flammability, degradation and structural characterization of fibre-forming polypropylene containing nanoclayâ€“flame retardant combinations. Polymer Degradation and Stability, 2006, 91, 719-725.	2.7	83
18	Enhancing the flame retardancy of thermoplastic polyurethane by introducing montmorillonite nanosheets modified with phosphorylated chitosan. Composites Part A: Applied Science and Manufacturing, 2019, 119, 291-298.	3.8	82

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19	Novel phosphorusâ€“nitrogenâ€“silicon flame retardants and their application in cycloaliphatic epoxy systems. Polymer Chemistry, 2015, 6, 2977-2985.	1.9	81
20	A new strategy to prepare fully bio-based poly(lactic acid) composite with high flame retardancy, UV resistance, and rapid degradation in soil. Chemical Engineering Journal, 2022, 428, 131979.	6.6	81
21	Effects of titanium dioxide on the flammability and char formation of water-based coatings containing intumescent flame retardants. Progress in Organic Coatings, 2015, 78, 318-324.	1.9	80
22	The preparation of a bio-polyelectrolytes based core-shell structure and its application in flame retardant polylactic acid composites. Composites Part A: Applied Science and Manufacturing, 2019, 124, 105485.	3.8	79
23	Surface coated rigid polyurethane foam with durable flame retardancy and improved mechanical property. Chemical Engineering Journal, 2020, 385, 123755.	6.6	71
24	Self-healing polyelectrolyte complex coating for flame retardant flexible polyurethane foam with enhanced mechanical property. Composites Part B: Engineering, 2021, 219, 108886.	5.9	71
25	A New Strategy for Storage and Transportation of Sensitive Highâ€Energy Materials: Guestâ€Dependent Energy and Sensitivity of 3D Metalâ€“Organicâ€Frameworkâ€Based Energetic Compounds. Chemistry - A European Journal, 2014, 20, 7906-7910.	1.7	70
26	Synergistic effect of decabromodiphenyl ethane and montmorillonite on flame retardancy of polypropylene. Polymer Degradation and Stability, 2009, 94, 1520-1525.	2.7	63
27	Effects of carboxymethyl chitosan microencapsulated melamine polyphosphate on the flame retardancy and water resistance of thermoplastic polyurethane. Polymer Degradation and Stability, 2019, 160, 168-176.	2.7	61
28	Chitosan/sodium polyborate based micro-nano coating with high flame retardancy and superhydrophobicity for cotton fabric. International Journal of Biological Macromolecules, 2022, 205, 261-273.	3.6	60
29	The preparation of fully bioâ€based flame retardant poly(lactic acid) composites containing casein. Journal of Applied Polymer Science, 2018, 135, 46599.	1.3	57
30	Impregnation of phytic acid into the delignified wood to realize excellent flame retardant. Industrial Crops and Products, 2022, 176, 114364.	2.5	55
31	Polypropylene fibers containing dispersed clays having improved fire performance. I. Effect of nanoclays on processing parameters and fiber properties. Journal of Applied Polymer Science, 2007, 106, 1707-1717.	1.3	54
32	Thermal behavior and fire performance of nylon-6,6 fabric modified with acrylamide by photografting. Polymer Degradation and Stability, 2010, 95, 1842-1848.	2.7	54
33	Surface grafting of sepiolite with a phosphaphenanthrene derivative and its flame-retardant mechanism on PLA nanocomposites. Polymer Degradation and Stability, 2019, 165, 68-79.	2.7	54
34	Enhancing polymer char formation by reaction with phosphorylated polyols. 1. Cellulose. Polymer, 2001, 42, 8025-8033.	1.8	53
35	The Preparation of an Intumescent Flame Retardant by Ion Exchange and Its Application in Polylactic Acid. ACS Applied Polymer Materials, 2019, 1, 755-764.	2.0	53
36	Thermal degradation analysis and XRD characterisation of fibre-forming synthetic polypropylene containing nanoclay. Polymer Degradation and Stability, 2007, 92, 727-732.	2.7	52

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37	The anti-dripping intumescent flame retardant finishing for nylon-6,6 fabric. Polymer Degradation and Stability, 2009, 94, 996-1000.	2.7	52
38	Improving the flame retardancy of PET fabric by photo-induced grafting. Polymer Degradation and Stability, 2010, 95, 1934-1942.	2.7	52
39	Green flame-retardant flexible polyurethane foam based on cyclodextrin. Polymer Degradation and Stability, 2020, 178, 109171.	2.7	52
40	Effects of surface acid-activated kaolinite on the fire performance of polypropylene composite. Thermochimica Acta, 2017, 648, 1-12.	1.2	51
41	Study of natural hydraulic lime-based mortars prepared with masonry waste powder as aggregate and diatomite/fly ash as mineral admixtures. Journal of Cleaner Production, 2016, 119, 118-127.	4.6	48
42	Effects of kaolinite nanoroll on the flammability of polypropylene nanocomposites. Applied Clay Science, 2016, 132-133, 579-588.	2.6	46
43	Investigation of the decomposition pathway of polyamide 6/ammonium sulfamate fibers. Polymer Degradation and Stability, 2014, 106, 150-157.	2.7	45
44	Flame Retardancy and Thermal Stability of Polypropylene Composite Containing Ammonium Sulfamate Intercalated Kaolinite. Industrial & Engineering Chemistry Research, 2016, 55, 7669-7678.	1.8	44
45	Modification of mesoporous silica with phosphotungstic acid and its effects on the combustion and thermal behavior of polylactic acid composites. Polymer Degradation and Stability, 2019, 160, 24-34.	2.7	44
46	Effect of different compatibilisers on nanoclay dispersion, thermal stability, and burning behavior of polypropyleneâ€“nanoclay blends. Journal of Applied Polymer Science, 2008, 108, 816-824.	1.3	43
47	The preparation of a bisphenol A epoxy resin based ammonium polyphosphate ester and its effect on the char formation of fire resistant transparent coating. Progress in Organic Coatings, 2019, 129, 349-356.	1.9	40
48	Improving the flame retardancy and accelerating the degradation of poly (lactic acid) in soil by introducing fully bio-based additives. International Journal of Biological Macromolecules, 2021, 193, 44-52.	3.6	40
49	Constructing eco-friendly flame retardant coating on cotton fabrics by layer-by-layer self-assembly. Cellulose, 2020, 27, 5377-5389.	2.4	39
50	Improving the flame retardancy of polyamide 6 by incorporating hexachlorocyclotriphosphazene modified MWNT. Polymers for Advanced Technologies, 2014, 25, 1099-1107.	1.6	38
51	Flame Retardancy of PA6 Using a Guanidine Sulfamate/Melamine Polyphosphate Mixture. Polymers, 2015, 7, 316-332.	2.0	38
52	Self-intumescent polyelectrolyte for flame retardant poly (lactic acid) nonwovens. Journal of Cleaner Production, 2021, 282, 124497.	4.6	38
53	Preparation of methacrylic acid modified microcrystalline cellulose and their applications in polylactic acid: flame retardancy, mechanical properties, thermal stability and crystallization behavior. Cellulose, 2020, 27, 2309-2323.	2.4	37
54	Preparation of thiourea-intercalated kaolinite and its influence on thermostability and flammability of polypropylene composite. Journal of Materials Science, 2017, 52, 208-217.	1.7	36

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55	Enhancing the thermostability, UV shielding and antimicrobial activity of transparent chitosan film by carbon quantum dots containing N/P. Carbohydrate Polymers, 2022, 278, 118957.	5.1	36
56	Flammability and thermal degradation of poly (lactic acid)/polycarbonate alloys containing a phosphazene derivative and trisilanollsobutyl POSS. Polymer, 2015, 79, 221-231.	1.8	35
57	Substantive intumescence from phosphorylated 1,3-propanediol derivatives substituted on to cellulose. Journal of Applied Polymer Science, 2003, 90, 3165-3172.	1.3	34
58	Synthesis of a novel polyhydroxy triazine-based charring agent and its effects on improving the flame retardancy of polypropylene with ammonium polyphosphate and zinc borate. Polymer Degradation and Stability, 2020, 175, 109123.	2.7	34
59	Silicone filled halloysite nanotubes for polypropylene composites: Flame retardancy, smoke suppression and mechanical property. Composites Part A: Applied Science and Manufacturing, 2021, 140, 106170.	3.8	33
60	Surface modification of polyamide 66 fabric by microwave induced grafting with 2-hydroxyethyl methacrylate. Surface and Coatings Technology, 2014, 240, 197-203.	2.2	32
61	Flameâ€retardant expandable polystyrene foams coated with ethanediolâ€modified melamineâ€“formaldehyde resin and microencapsulated ammonium polyphosphate. Journal of Applied Polymer Science, 2018, 135, 46471.	1.3	32
62	An effective flame retardant containing hypophosphorous acid for poly (lactic acid): Fire performance, thermal stability and mechanical properties. Polymer Testing, 2019, 78, 105940.	2.3	32
63	Flammability and thermal behaviors of polypropylene composite containing modified kaolinite. Journal of Applied Polymer Science, 2015, 132, .	1.3	31
64	Coreâ€“Shell Structured Polyamide 66 Nanofibers with Enhanced Flame Retardancy. ACS Omega, 2017, 2, 2665-2671.	1.6	31
65	Behavior of Smart Surfactants in Stabilizing pHâ€Responsive Emulsions. Angewandte Chemie - International Edition, 2021, 60, 5235-5239.	7.2	31
66	Toward an understanding of how red phosphorus and expandable graphite enhance the fire resistance of expandable polystyrene foams. Journal of Applied Polymer Science, 2020, 137, 49045.	1.3	30
67	Enhancing polymer flame retardancy by reaction with phosphorylated polyols. Part 2. Cellulose treated with a phosphonium salt urea condensate (proban CCÂ®) flame retardant. Fire and Materials, 2002, 26, 173-182.	0.9	29
68	Preliminary effectiveness of breast cancer screening among 1.22 million Chinese females and different cancer patterns between urban and rural women. Scientific Reports, 2016, 6, 39459.	1.6	29
69	Ordered Mesoporous Carbon and Thiolated Polyaniline Modified Electrode for Simultaneous Determination of Cadmium(II) and Lead(II) by Anodic Stripping Voltammetry. Electroanalysis, 2014, 26, 2283-2291.	1.5	28
70	Effects of Compound Oxides on the Fire Performance of Polypropylene Composite. Industrial & Engineering Chemistry Research, 2014, 53, 8062-8068.	1.8	28
71	Preparation of phytic acidâ€based green intumescent flame retardant and its application in <scp>PLA</scp> nonwovens. Polymers for Advanced Technologies, 2021, 32, 3039-3049.	1.6	28
72	Effects of dihydrogen phosphate intercalated layered double hydroxides on the crystal behaviors and flammability of polypropylene. Journal of Applied Polymer Science, 2013, 130, 3645-3651.	1.3	27

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73	Improving flame retardancy and self-cleaning performance of cotton fabric via a coating of in-situ growing layered double hydroxides (LDHs) on polydopamine. Progress in Organic Coatings, 2020, 149, 105930.	1.9	26
74	Preparation of 3â€aminopropyltriethoxy silane modified cellulose microcrystalline and their applications as flame retardant and reinforcing agents in epoxy resin. Polymers for Advanced Technologies, 2020, 31, 1340-1348.	1.6	26
75	Effects of Acidic Sites in HA Zeolite on the Fire Performance of Polystyrene Composite. Industrial & Engineering Chemistry Research, 2013, 52, 9145-9154.	1.8	25
76	Preparation and characterization of intumescent flame retardant biodegradable poly(lactic acid) nanocomposites based on sulfamic acid intercalated layered double hydroxides. Fibers and Polymers, 2017, 18, 2060-2069.	1.1	25
77	The preparation of starch derivatives reacted with urea-phosphoric acid and effects on fire performance of expandable polystyrene foams. Carbohydrate Polymers, 2020, 233, 115841.	5.1	25
78	Effects of melamine polyphosphate and halloysite nanotubes on the flammability and thermal behavior of polyamide 6. Polymers for Advanced Technologies, 2014, 25, 1552-1559.	1.6	24
79	Effects of kaolin on the thermal stability and flame retardancy of polypropylene composite. Polymers for Advanced Technologies, 2014, 25, 912-919.	1.6	24
80	Char Formation in Polyamides (Nylons 6 and 6.6) and Wool Keratin Phosphorylated by Polyol Phosphoryl Chlorides. Textile Reseach Journal, 2004, 74, 433-441.	1.1	23
81	An Antidripping Flame Retardant Finishing for Polyethylene Terephthalate Fabric. Industrial & Engineering Chemistry Research, 2012, 51, 14708-14713.	1.8	23
82	Flammability and thermal behavior of polypropylene composites containing dihydrogen phosphate anionâ€intercalated layered double hydroxides. Polymer Composites, 2015, 36, 2230-2237.	2.3	23
83	The preparation and characterization of sulfamic acid-intercalated layered double hydroxide. Materials Letters, 2015, 150, 31-34.	1.3	23
84	Integrated Analysis of Pigments on Murals and Sculptures in Mogao Grottoes. Analytical Letters, 2015, 48, 2400-2413.	1.0	23
85	The clinical features and management of women with ductal carcinoma in situ with microinvasion: A retrospective Cohort study. International Journal of Surgery, 2015, 19, 91-94.	1.1	23
86	The synergism between melamine and expandable graphite on improving the flame retardancy of polyamide 11. High Performance Polymers, 2017, 29, 77-86.	0.8	23
87	Combination Intumescent and Kaolinâ€Filled Multilayer Nanocoatings that Reduce Polyurethane Flammability. Macromolecular Materials and Engineering, 2019, 304, 1800531.	1.7	23
88	Toward a new approach to synchronously improve the fire performance and toughness of polylactic acid by the incorporation of facilely synthesized ammonium polyphosphate derivatives. Composites Part A: Applied Science and Manufacturing, 2021, 150, 106595.	3.8	23
89	The synergistic effect between bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate and polysiloxane on the photo-aging resistance and flame retardancy of polypropylene. Composites Part B: Engineering, 2022, 234, 109666.	5.9	23
90	Syntheses and Characterization of Four Phosphaphenanthrene and Phosphazene-based Flame Retardants. Phosphorus, Sulfur and Silicon and the Related Elements, 2014, 189, 1811-1822.	0.8	22

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91	Characterization of high concentration Ga-doped ZnO nano-powders prepared by solâ€“gel combustion. Materials Letters, 2013, 112, 129-132.	1.3	21
92	Improvement of flame retardancy and thermal stability of polypropylene by P-type hydrated silica aluminate containing lanthanum. Polymer Degradation and Stability, 2018, 154, 276-284.	2.7	21
93	Improving the Fire Performance of Nylon 6,6 Fabric by Chemical Grafting with Acrylamide. Industrial & Engineering Chemistry Research, 2013, 52, 2290-2296.	1.8	20
94	A Facile Route to Fabricate Effective Pt/IrO2 Bifunctional Catalyst for Unitized Regenerative Fuel Cell. Catalysis Letters, 2014, 144, 242-247.	1.4	20
95	The flammability of expandable polystyrene foams coated with melamine modified urea formaldehyde resin. Journal of Applied Polymer Science, 2017, 134, .	1.3	20
96	Synergistic effects of modified hydrotalcite on improving the fire resistance of ethylene vinyl acetate containing intumescent flame retardants. Polymer Composites, 2018, 39, 522-528.	2.3	20
97	Surface photografting: New application for flame retardant finishing of polyamide6.6 (PA6.6) fabric. Journal of Applied Polymer Science, 2011, 119, 66-72.	1.3	19
98	Synergistic effect of kaolinite/halloysite on the flammability and thermostability of polypropylene. Journal of Applied Polymer Science, 2018, 135, 46507.	1.3	19
99	Synthesis of 4A zeolite containing la from kaolinite and its effect on the flammability of polypropylene. Polymer Composites, 2018, 39, 3461-3471.	2.3	19
100	Mechanical, flammability, and crystallization behavior of polypropylene composites reinforced by aramid fibers. Journal of Applied Polymer Science, 2012, 125, 1166-1175.	1.3	18
101	Characterization of cationic polyacrylamideâ€grafted starch flocculant synthesized by oneâ€step reaction. Journal of Applied Polymer Science, 2012, 123, 1261-1266.	1.3	18
102	A Pilot Randomized Clinical Study of the Additive Treatment Effect of Photodynamic Therapy in Breast Cancer Patients with Chest Wall Recurrence. Journal of Breast Cancer, 2014, 17, 161.	0.8	18
103	Cardiac Protective Effects of Dexrazoxane on Animal Cardiotoxicity Model Induced by Anthracycline Combined With Trastuzumab Is Associated With Upregulation of Calpain-2. Medicine (United States), 2015, 94, e445.	0.4	18
104	Effect of ethylâ€bridged diphenylphosphine oxide on flame retardancy and thermal properties of epoxy resin. Polymers for Advanced Technologies, 2020, 31, 1426-1436.	1.6	18
105	One-Pot Preparation of Peptide-Doped Metalâ€“Amino Acid Framework for General Encapsulation and Targeted Delivery. ACS Applied Materials & Interfaces, 2021, 13, 11195-11204.	4.0	18
106	Enhancing the flame retardancy and UV resistance of polyamide 6 by introducing ternary supramolecular aggregates. Chemosphere, 2022, 287, 132100.	4.2	18
107	Epidermal growth factor receptor and <scp>AKT</scp>1 gene copy numbers by multiâ€gene fluorescence inÂsitu hybridization impact on prognosis in breast cancer. Cancer Science, 2015, 106, 642-649.	1.7	17
108	Prognosis of invasive breast cancer after adjuvant therapy evaluated with VEGF microvessel density and microvascular imaging. Tumor Biology, 2015, 36, 8755-8760.	0.8	17

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109	Is there any way to simultaneously enhance both the flame retardancy and toughness of polylactic acid?. Polymer Composites, 2019, 40, 932-941.	2.3	17
110	Photoaging and Fire Performance of Polypropylene Containing Melamine Phosphate. ACS Applied Polymer Materials, 2020, 2, 4455-4463.	2.0	17
111	The Application of a Novel Char Source From Petroleum Refining Waste in Flame Retardant Thermoplastic Polyurethane. Polymer Engineering and Science, 2020, 60, 1029-1034.	1.5	17
112	Preparation of flame retardant and conductive epoxy resin composites by incorporating functionalized multiâ€walled carbon nanotubes and graphite sheets. Polymers for Advanced Technologies, 2021, 32, 2093-2101.	1.6	17
113	Burning behavior and thermal degradation kinetics of surface photografted polyamide 6.6 fabric. Polymers for Advanced Technologies, 2012, 23, 1550-1554.	1.6	16
114	Improving the flame retardant properties of polyesterâ€cotton blend fabrics by introducing an intumescent coating via layer by layer assembly. Journal of Applied Polymer Science, 2020, 137, 49253.	1.3	16
115	The Preparation and Characterization of Polylactic Acid Composites with Chitin-Based Intumescent Flame Retardants. Polymers, 2021, 13, 3513.	2.0	16
116	Durable flameâ€retardant finishing for polyamide 66 fabrics by surface hydroxymethylation and crosslinking. Polymers for Advanced Technologies, 2013, 24, 10-14.	1.6	15
117	Fabrication of phytic acid embellished kaolinite and its effect on the flame retardancy and thermal stability of ethylene vinyl acetate composites. Journal of Applied Polymer Science, 2021, 138, 51364.	1.3	15
118	Flame retardancy of polyamide 66 nanocomposites with thermally stable organoclay. Polymers for Advanced Technologies, 2012, 23, 137-142.	1.6	14
119	Synthesis of PSâ€gâ€POSS hybrid graft copolymer by click coupling via â€graft ontoâ€•strategy. Journal of Applied Polymer Science, 2013, 129, 1833-1844.	1.3	14
120	Preparation and characterization of flame retardant and low smoke releasing oil-resistant EVA/NBR blends. Chinese Journal of Polymer Science (English Edition), 2015, 33, 554-563.	2.0	14
121	Determination of 5-Hydroxyindole Acetic Acid by Electrochemical Methods with an Oxidized Glassy Carbon Electrode. Electrochimica Acta, 2016, 216, 528-534.	2.6	14
122	A facile preparation of environmentally-benign and flame-retardant coating on wood by comprising polysilicate and boric acid. Cellulose, 2021, 28, 11551-11566.	2.4	14
123	TiO2/SiO2/kaolinite hybrid filler to improve the flame retardancy, smoke suppression and anti-aging characteristics of epoxy resin. Materials Chemistry and Physics, 2022, 277, 125576.	2.0	14
124	An efficient method to prepare high-performance dye-sensitized photoelectrodes using ordered TiO2 nanotube arrays and TiO2 quantum dot blocking layers. Journal of Solid State Electrochemistry, 2016, 20, 2643-2650.	1.2	13
125	Improving the flame resistance and thermal conductivity of ethyleneâ€vinyl acetate composites by incorporating hexachlorocyclotriphosphazeneâ€modified graphite and carbon nanotubes. Polymer Composites, 2018, 39, E891.	2.3	13
126	Preparation of Intumescent Flame Retardant Poly(butylene succinate) Using Urea Intercalated Kaolinite as Synergistic Agent. Fibers and Polymers, 2019, 20, 1631-1640.	1.1	13

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127	Rapid access to 3-aminoindazoles from nitriles with hydrazines: a strategy to overcome the basicity barrier imparted by hydrazines. Chemical Communications, 2020, 56, 9521-9524.	2.2	13
128	Construction of bioâ€safety flame retardant coatings on polyethylene terephthalate fabric with ammonium phytate and cyclodextrin. Polymers for Advanced Technologies, 2021, 32, 4440-4449.	1.6	13
129	Fabrication of a hybrid from metal organic framework and sepiolite (ZIF-8@SEP) for reducing the fire hazards in thermoplastic polyurethane. Applied Clay Science, 2022, 216, 106376.	2.6	13
130	Flammability and Char Formation of Polyamide 66 Fabric: Chemical Grafting versus Pad-Dry Process. Industrial & Engineering Chemistry Research, 2015, 54, 6085-6092.	1.8	12
131	A new approach on improving the fire resistance of polyamide 11 by incorporating sulfurâ€based flame retardant. Polymers for Advanced Technologies, 2019, 30, 1605-1615.	1.6	12
132	Preparation of hexakis (4â€aldehyde phenoxy) cyclotriphosphazene grafted kaolinite and its synergistic fire resistance in poly (butylene succinate). Polymer Composites, 2020, 41, 1024-1035.	2.3	12
133	Multi-gene fluorescence in situ hybridization to detect cell cycle gene copy number aberrations in young breast cancer patients. Cell Cycle, 2014, 13, 1299-1305.	1.3	11
134	The fire performance of polyamide66 fabric coated with soybean protein isolation. Progress in Organic Coatings, 2020, 148, 105835.	1.9	11
135	Constructing a novel synergistic flame retardant by hybridization of zeolitic imidazolate frameworkâ€67 and graphene oxide for thermoplastic polyurethane. Polymers for Advanced Technologies, 2022, 33, 2374-2385.	1.6	11
136	A Review on Flame-Retardant Polyvinyl Alcohol: Additives and Technologies. Polymer Reviews, 2023, 63, 324-364.	5.3	11
137	Synthesis and characterization of ion-exchangeable layered Octabenzenesulphonate Polyhedral Oligomeric Silsesquioxanes modified by surfactant. Materials Letters, 2006, 60, 1823-1827.	1.3	10
138	The intercalation of ammonium sulfamate into kaolinite and its effect on the fire performance of polypropylene. Journal of Thermoplastic Composite Materials, 2018, 31, 1352-1370.	2.6	10
139	Effects of divinylbenzeneâ€maleic anhydride copolymer hollow microspheres on crystallization behaviors, mechanical properties and heat resistance of poly(lâ€lactide acid). Polymers for Advanced Technologies, 2020, 31, 817-826.	1.6	10
140	The encapsulation of intumescent flame retardants by poly-siloxane for thermoplastic polyolefin: Fire safety and water resistance. Polymer Degradation and Stability, 2021, 188, 109561.	2.7	10
141	Design of fire resistant, sound-absorbing and thermal-insulated expandable polystyrene based lightweight particleboard composites. Construction and Building Materials, 2021, 305, 124773.	3.2	10
142	NIR-II photothermal therapy for effective tumor eradication enhanced by heterogeneous nanorods with dual catalytic activities. Nano Research, 2022, 15, 4310-4319.	5.8	10
143	Improving the flame retardancy of the polypropylene/aramid fiber composites by the introduction of decabromodiphenyl ethane and antimony trioxide. Journal of Applied Polymer Science, 2013, 127, 1446-1453.	1.3	9
144	Efficient approach to enhancing the fire resistance of polypropylene by modified microporous aluminosilicate from kaolinite as synergist. Polymers for Advanced Technologies, 2020, 31, 1047-1058.	1.6	9

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145	Improving the fire performance and smoke suppression of expandable polystyrene foams by coating with multiâ€dimensional carbon nanoparticles. Journal of Applied Polymer Science, 2020, 137, 49227.	1.3	9
146	Behavior of Smart Surfactants in Stabilizing pHâ€Responsive Emulsions. Angewandte Chemie, 2021, 133, 5295-5299.	1.6	9
147	Preparation of a novel supramolecular intumescent flame retardants containing P/N/S/Fe/Zn and its application in polylactic acid. Fire Safety Journal, 2022, 128, 103536.	1.4	9
148	Surface modification of polyamide66 fabric by grafting with vinyltrimethoxysilane. Chemical Research in Chinese Universities, 2017, 33, 492-498.	1.3	8
149	An improved method for the durability of the flame retardant PA66 fabric. Journal of Thermal Analysis and Calorimetry, 2017, 128, 193-199.	2.0	8
150	Fabrication of hydrotalcite containing N/P/S and its ternary synergistic efficiency on thermostability and fire resistance of ethylene vinyl acetate (EVA). Journal of Vinyl and Additive Technology, 2019, 25, 255-261.	1.8	8
151	Enhancing flame retardant and antistatic properties of polyamide 6 by a grafted multiwall carbon nanotubes. Journal of Applied Polymer Science, 2021, 138, 50015.	1.3	8
152	Approaches to the Flame Retardancy of Polymers. I.: Electron-Beam Pre-Irradiation and Grafting of Acrylic Monomers onto EVA Copolymers. Journal of Fire Sciences, 1997, 15, 68-87.	0.9	7
153	Smoke density evaluation of acrylic resin and intumescent flame retardant coatings. Pigment and Resin Technology, 2016, 45, 86-92.	0.5	7
154	CdSe x S1â^'x /CdS-cosensitized 3D TiO2 hierarchical nanostructures for efficient energy conversion. Journal of Solid State Electrochemistry, 2018, 22, 347-353.	1.2	7
155	Fabrication of Fly Ashâ€Based Mesoporous Aluminosilicate Oxides Loaded with Zinc and its Synergistic Fire Resistancy in Polypropylene. Journal of Vinyl and Additive Technology, 2020, 26, 135-143.	1.8	7
156	Surface Modification of Cellulose Microcrystalline with Aluminate Coupling Agent and Its Effects on Flame Retardant and Mechanical Properties of Epoxy Resin. Fibers and Polymers, 2020, 21, 2344-2352.	1.1	7
157	Surface modification on ammonium polyphosphate and its enhanced flame retardancy in thermoplastic polyurethane. Polymers for Advanced Technologies, 2021, 32, 2879-2886.	1.6	7
158	Improving flame retardant and mechanical properties of ethyleneâ€“vinyl acetate by cured compound silicone decorated magnesium hydroxide. Journal of Materials Science, 2022, 57, 2243-2256.	1.7	7
159	The Py-GC and Py-GC/MS investigation of liquid crystalline polysiloxanes containing benzyl ether and biphenyl mesogen. Journal of Analytical and Applied Pyrolysis, 1997, 42, 103-111.	2.6	6
160	Improving the mechanical properties and flame retardancy of ethyleneâ€vinyl acetate copolymer by introducing bis [3â€(triethoxysilyl) propyl] tetrasulfide modified magnesium hydroxide. Surface and Interface Analysis, 2017, 49, 607-614.	0.8	6
161	Surface modification of bamboo fibers by diammonium phosphate and their applications in flame retardant thermoplastic polyurethane. Journal of Applied Polymer Science, 2021, 138, 50606.	1.3	6
162	A (4â€fluorophenyl)(phenyl)phosphine oxideâ€modified epoxy resin with improved flameâ€retardancy, hydrophobicity, and dielectric properties. Journal of Applied Polymer Science, 2021, 138, 50792.	1.3	6

#	Article	IF	Citations
163	2D CoOOH nanosheets as oxidase mimic for the colorimetric assay of sulfite in food. Analytical Methods, 2021, 13, 764-768.	1.3	6
164	A new coating system modified with nano-sized particles for archaeological bronze protection. Studies in Conservation, 2014, 59, 268-275.	0.6	5
165	Constraint 3D density interface inversion from gravity anomalies. Arabian Journal of Geosciences, 2016, 9, 1.	0.6	5
166	An efficient and ecoâ€friendly route to prepare graphene nanosheet and its effect on the flammability of polypropylene composites. Polymers for Advanced Technologies, 2021, 32, 3358-3361.	1.6	5
167	Recyclable and re-usable smart surfactant for stabilization of various multi-responsive emulsions alone or with nanoparticles. Soft Matter, 2022, 18, 849-858.	1.2	5
168	The electron-beam (EB) irradiation and grafting of acrylic monomers onto EPDM copolymer. Science Bulletin, 2000, 45, 322-325.	1.7	4
169	Flame retardancy and thermal and mechanical performance of intercalated, layered double hydroxide composites of polyamide 11, aluminum phosphinate, and sulfamic acid. Journal of Applied Polymer Science, 2016, 133, .	1.3	4
170	A 3D-QSAR Study on Betulinic Acid Derivatives as Anti-Tumor Agents and the Synthesis of Novel Derivatives for Modeling Validation. Anti-Cancer Agents in Medicinal Chemistry, 2017, 17, 566-575.	0.9	4
171	The investigation of pyrolysis mechanism of heptakis[3-O-methyl-2,6-di-O-(methoxybenzyl)]-Î²-cyclodextrin by Py-GC and Py-GC/MS. Journal of Analytical and Applied Pyrolysis, 1997, 42, 9-19.	2.6	3
172	AlGaN/GaN HEMT device structure optimization design. , 2009, , .		3
173	Self-assembly and rheological behavior of novel anionic and cationic gemini surfactants. Colloid and Polymer Science, 2020, 298, 1619-1628.	1.0	3
174	Intumescent flame retardant finishing for polypropylene nonwoven fabric. Journal of Industrial Textiles, 2022, 51, 5186S-5201S.	1.1	3
175	The preparation of polyamide 11 composites with extremely long ignition time. Polymers for Advanced Technologies, 0, , .	1.6	3
176	Suppressing Artifacts in 2D RTM Using the Poynting Vector. , 2013, , .		2
177	Simultaneously improving the fire performance and toughness of polylactic acid by reactive blending with castor oil-based polyurethane and ammonium polyphosphate. Journal of Fire Sciences, 2020, 38, 253-269.	0.9	2
178	A novel hollow microsphere acting on crystallization, mechanical, and thermal performance of poly(3â€hydroxybutyrateâ€coâ€4â€hydroxybutyrate). Polymer Crystallization, 2021, 4, e10204.	0.5	2