Sheng Zhang

List of Publications by Citations

175 papers	4,699 citations	34 h-index	62 g-index
180 ext. papers	5,771 ext. citations	4.7 avg, IF	5.88 L-index

#	Paper	IF	Citations
175	A review of flame retardant polypropylene fibres. *Progress in Polymer Science*, **2003**, 28, 1517-1538	29.6	426
174	Graphene Decorated with PtAu Alloy Nanoparticles: Facile Synthesis and Promising Application for Formic Acid Oxidation. *Chemistry of Materials*, **2011**, 23, 1079-1081	9.6	342
173	Polyelectrolyte-induced reduction of exfoliated graphite oxide: a facile route to synthesis of soluble graphene nanosheets. *ACS Nano*, **2011**, 5, 1785-91	16.7	274
172	Recent progress in nanostructured electrocatalysts for PEM fuel cells. *Journal of Materials Chemistry A*, **2013**, 1, 4631	13	157
171	Carbon nanotubes decorated with Pt nanoparticles via electrostatic self-assembly: a highly active oxygen reduction electrocatalyst. *Journal of Materials Chemistry*, **2010**, 20, 2826		144
170	The effect of chitosan on the flammability and thermal stability of polylactic acid/ammonium polyphosphate biocomposites. *Carbohydrate Polymers*, **2017**, 157, 1586-1593	10.3	99
169	Synthesis, Characterization, and Utilization of a Novel Phosphorus/Nitrogen-Containing Flame Retardant. *Industrial & Engineering Chemistry Research*, **2015**, 54, 2974-2982	3.9	91
168	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	4.7	83
167	High photocatalytic performance of high concentration Al-doped ZnO nanoparticles. *Separation and Purification Technology*, **2017**, 172, 236-241	8.3	82
166	Stabilization of platinum nanoparticle electrocatalysts for oxygen reduction using poly(diallyldimethylammonium chloride). *Journal of Materials Chemistry*, **2009**, 19, 7995		82
165	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	9.5	79
164	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	9.3	79
163	Preparation and characterization of chitosan derivatives and their application as flame retardants in thermoplastic polyurethane. *Carbohydrate Polymers*, **2017**, 167, 356-363	10.3	74
162	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	4.3	74
161	Flammability, degradation and structural characterization of fibre-forming polypropylene containing nanoclay/flame retardant combinations. *Polymer Degradation and Stability*, **2006**, 91, 719-725	4.7	71
160	The novel application of chitosan: Effects of cross-linked chitosan on the fire performance of thermoplastic polyurethane. *Carbohydrate Polymers*, **2018**, 189, 313-321	10.3	65
159	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	4.8	65

158	A new strategy for storage and transportation of sensitive high-energy materials: guest-dependent energy and sensitivity of 3D metal-organic-framework-based energetic compounds. *Chemistry - A European Journal*, **2014**, 20, 7906-10	4.8	62
157	Novel phosphorus–nitrogen–silicon flame retardants and their application in cycloaliphatic epoxy systems. *Polymer Chemistry*, **2015**, 6, 2977-2985	4.9	61
156	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	2.9	51
155	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	10	51
154	Synergistic effect of decabromodiphenyl ethane and montmorillonite on flame retardancy of polypropylene. *Polymer Degradation and Stability*, **2009**, 94, 1520-1525	4.7	49
153	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	8.4	49
152	Improving the flame retardancy of PET fabric by photo-induced grafting. *Polymer Degradation and Stability*, **2010**, 95, 1934-1942	4.7	48
151	Thermal behavior and fire performance of nylon-6,6 fabric modified with acrylamide by photografting. *Polymer Degradation and Stability*, **2010**, 95, 1842-1848	4.7	47
150	Thermal degradation analysis and XRD characterisation of fibre-forming synthetic polypropylene containing nanoclay. *Polymer Degradation and Stability*, **2007**, 92, 727-732	4.7	47
149	The anti-dripping intumescent flame retardant finishing for nylon-6,6 fabric. *Polymer Degradation and Stability*, **2009**, 94, 996-1000	4.7	45
148	Enhancing polymer char formation by reaction with phosphorylated polyols. 1. Cellulose. *Polymer*, **2001**, 42, 8025-8033	3.9	45
147	Investigation of the decomposition pathway of polyamide 6/ammonium sulfamate fibers. *Polymer Degradation and Stability*, **2014**, 106, 150-157	4.7	38
146	Effect of different compatibilisers on nanoclay dispersion, thermal stability, and burning behavior of polypropylene–nanoclay blends. *Journal of Applied Polymer Science*, **2008**, 108, 816-824	2.9	38
145	Effects of surface acid-activated kaolinite on the fire performance of polypropylene composite. *Thermochimica Acta*, **2017**, 648, 1-12	2.9	37
144	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	8.4	37
143	Surface coated rigid polyurethane foam with durable flame retardancy and improved mechanical property. *Chemical Engineering Journal*, **2020**, 385, 123755	14.7	35
142	Effects of kaolinite nanoroll on the flammability of polypropylene nanocomposites. *Applied Clay Science*, **2016**, 132-133, 579-588	5.2	34
141	The preparation of fully bio-based flame retardant poly(lactic acid) composites containing casein. *Journal of Applied Polymer Science*, **2018**, 135, 46599	2.9	34

140	Flame Retardancy and Thermal Stability of Polypropylene Composite Containing Ammonium Sulfamate Intercalated Kaolinite. *Industrial & Engineering Chemistry Research*, **2016**, 55, 7669-7678	3.9	33
139	Flame Retardancy of PA6 Using a Guanidine Sulfamate/Melamine Polyphosphate Mixture. *Polymers* , **2015**, 7, 316-332	4.5	31
138	Green flame-retardant flexible polyurethane foam based on cyclodextrin. *Polymer Degradation and Stability*, **2020**, 178, 109171	4.7	30
137	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	10.3	30
136	The Preparation of an Intumescent Flame Retardant by Ion Exchange and Its Application in Polylactic Acid. *ACS Applied Polymer Materials*, **2019**, 1, 755-764	4.3	29
135	Substantive intumescence from phosphorylated 1,3-propanediol derivatives substituted on to cellulose. *Journal of Applied Polymer Science*, **2003**, 90, 3165-3172	2.9	29
134	Surface modification of polyamide 66 fabric by microwave induced grafting with 2-hydroxyethyl methacrylate. *Surface and Coatings Technology*, **2014**, 240, 197-203	4.4	28
133	Preparation of thiourea-intercalated kaolinite and its influence on thermostability and flammability of polypropylene composite. *Journal of Materials Science*, **2017**, 52, 208-217	4.3	28
132	Improving the flame retardancy of polyamide 6 by incorporating hexachlorocyclotriphosphazene modified MWNT. *Polymers for Advanced Technologies*, **2014**, 25, 1099-1107	3.2	28
131	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	4.7	28
130	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	4.7	28
129	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	4.8	27
128	Flammability and thermal degradation of poly (lactic acid)/polycarbonate alloys containing a phosphazene derivative and trisilanollsobutyl POSS. *Polymer*, **2015**, 79, 221-231	3.9	26
127	Core-Shell Structured Polyamide 66 Nanofibers with Enhanced Flame Retardancy. *ACS Omega*, **2017**, 2, 2665-2671	3.9	25
126	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	3	25
125	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	2.9	25
124	Enhancing polymer flame retardancy by reaction with phosphorylated polyols. Part 2. Cellulose treated with a phosphonium salt urea condensate (proban CC) flame retardant. *Fire and Materials*, **2002**, 26, 173-182	1.8	25
123	Surface grafting of sepiolite with a phosphaphenanthrene derivative and its flame-retardant mechanism on PLA nanocomposites. *Polymer Degradation and Stability*, **2019**, 165, 68-79	4.7	24

122	Effects of Compound Oxides on the Fire Performance of Polypropylene Composite. *Industrial & Engineering Chemistry Research*, **2014**, 53, 8062-8068	3.9	24
121	Flammability and thermal behaviors of polypropylene composite containing modified kaolinite. *Journal of Applied Polymer Science*, **2015**, 132, n/a-n/a	2.9	24
120	Electrostatic Self-Assembly of a Pt-around-Au Nanocomposite with High Activity towards Formic Acid Oxidation. *Angewandte Chemie*, **2010**, 122, 2257-2260	3.6	24
119	Effects of Acidic Sites in HA Zeolite on the Fire Performance of Polystyrene Composite. *Industrial & Engineering Chemistry Research*, **2013**, 52, 9145-9154	3.9	23
118	The synergism between melamine and expandable graphite on improving the flame retardancy of polyamide 11. *High Performance Polymers*, **2017**, 29, 77-86	1.6	21
117	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	2	21
116	An Antidripping Flame Retardant Finishing for Polyethylene Terephthalate Fabric. *Industrial & Engineering Chemistry Research*, **2012**, 51, 14708-14713	3.9	21
115	A Facile Route to Fabricate Effective Pt/IrO2 Bifunctional Catalyst for Unitized Regenerative Fuel Cell. *Catalysis Letters*, **2014**, 144, 242-247	2.8	20
114	Flammability and thermal behavior of polypropylene composites containing dihydrogen phosphate anion-intercalated layered double hydroxides. *Polymer Composites*, **2015**, 36, 2230-2237	3	20
113	Char Formation in Polyamides (Nylons 6 and 6.6) and Wool Keratin Phosphorylated by Polyol Phosphoryl Chlorides. *Textile Reseach Journal*, **2004**, 74, 433-441	1.7	20
112	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	4.9	20
111	Constructing eco-friendly flame retardant coating on cotton fabrics by layer-by-layer self-assembly. *Cellulose*, **2020**, 27, 5377-5389	5.5	20
110	Flame-retardant expandable polystyrene foams coated with ethanediol-modified melamine–formaldehyde resin and microencapsulated ammonium polyphosphate. *Journal of Applied Polymer Science*, **2018**, 135, 46471	2.9	19
109	Characterization of high concentration Ga-doped ZnO nano-powders prepared by sol–gel combustion. *Materials Letters*, **2013**, 112, 129-132	3.3	19
108	Self-healing polyelectrolyte complex coating for flame retardant flexible polyurethane foam with enhanced mechanical property. *Composites Part B: Engineering*, **2021**, 219, 108886	10	19
107	Characterization of cationic polyacrylamide-grafted starch flocculant synthesized by one-step reaction. *Journal of Applied Polymer Science*, **2012**, 123, 1261-1266	2.9	18
106	The preparation and characterization of sulfamic acid-intercalated layered double hydroxide. *Materials Letters*, **2015**, 150, 31-34	3.3	18
105	Syntheses and Characterization of Four Phosphaphenanthrene and Phosphazene-based Flame Retardants. *Phosphorus, Sulfur and Silicon and the Related Elements*, **2014**, 189, 1811-1822	1	18

104	Effects of melamine polyphosphate and halloysite nanotubes on the flammability and thermal behavior of polyamide 6. *Polymers for Advanced Technologies*, **2014**, 25, 1552-1559	3.2	18
103	An effective flame retardant containing hypophosphorous acid for poly (lactic acid): Fire performance, thermal stability and mechanical properties. *Polymer Testing*, **2019**, 78, 105940	4.5	17
102	Surface photografting: New application for flame retardant finishing of polyamide6.6 (PA6.6) fabric. *Journal of Applied Polymer Science*, **2011**, 119, 66-72	2.9	17
101	Combination Intumescent and Kaolin-Filled Multilayer Nanocoatings that Reduce Polyurethane Flammability. *Macromolecular Materials and Engineering*, **2019**, 304, 1800531	3.9	17
100	Synergistic effect of kaolinite/halloysite on the flammability and thermostability of polypropylene. *Journal of Applied Polymer Science*, **2018**, 135, 46507	2.9	16
99	The clinical features and management of women with ductal carcinoma in situ with microinvasion: A retrospective Cohort study. *International Journal of Surgery*, **2015**, 19, 91-4	7.5	15
98	Prognosis of invasive breast cancer after adjuvant therapy evaluated with VEGF microvessel density and microvascular imaging. *Tumor Biology*, **2015**, 36, 8755-60	2.9	15
97	Preparation of 3-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	3.2	15
96	Effects of kaolin on the thermal stability and flame retardancy of polypropylene composite. *Polymers for Advanced Technologies*, **2014**, 25, 912-919	3.2	15
95	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	1.8	15
94	Burning behavior and thermal degradation kinetics of surface photografted polyamide 6.6 fabric. *Polymers for Advanced Technologies*, **2012**, 23, 1550-1554	3.2	15
93	Silicone filled halloysite nanotubes for polypropylene composites: Flame retardancy, smoke suppression and mechanical property. *Composites Part A: Applied Science and Manufacturing*, **2021**, 140, 106170	8.4	15
92	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	14.7	15
91	Epidermal growth factor receptor and AKT1 gene copy numbers by multi-gene fluorescence in situ hybridization impact on prognosis in breast cancer. *Cancer Science*, **2015**, 106, 642-9	6.9	14
90	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, 161-6	3	14
89	Flame retardancy of polyamide 66 nanocomposites with thermally stable organoclay. *Polymers for Advanced Technologies*, **2012**, 23, 137-142	3.2	14
88	Mechanical, flammability, and crystallization behavior of polypropylene composites reinforced by aramid fibers. *Journal of Applied Polymer Science*, **2012**, 125, 1166-1175	2.9	14
87	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	5.5	14

86	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	4.7	13
85	Synthesis of 4A zeolite containing la from kaolinite and its effect on the flammability of polypropylene. *Polymer Composites*, **2018**, 39, 3461-3471	3	13
84	Synergistic effects of modified hydrotalcite on improving the fire resistance of ethylene vinyl acetate containing intumescent flame retardants. *Polymer Composites*, **2018**, 39, 522-528	3	13
83	Durable flame-retardant finishing for polyamide 66 fabrics by surface hydroxymethylation and crosslinking. *Polymers for Advanced Technologies*, **2013**, 24, 10-14	3.2	13
82	Synthesis of PS-g-POSS hybrid graft copolymer by click coupling via graft onto strategy. *Journal of Applied Polymer Science*, **2013**, 129, 1833-1844	2.9	13
81	Improving the Fire Performance of Nylon 6,6 Fabric by Chemical Grafting with Acrylamide. *Industrial & Engineering Chemistry Research*, **2013**, 52, 2290-2296	3.9	13
80	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	4.7	13
79	Integrated Analysis of Pigments on Murals and Sculptures in Mogao Grottoes. *Analytical Letters*, **2015**, 48, 2400-2413	2.2	12
78	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	3.5	12
77	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	2.9	12
76	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	4.8	12
75	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	2.6	11
74	The preparation of starch derivatives reacted with urea-phosphoric acid and effects on fire performance of expandable polystyrene foams. *Carbohydrate Polymers*, **2020**, 233, 115841	10.3	11
73	Improving the flame resistance and thermal conductivity of ethylene-vinyl acetate composites by incorporating hexachlorocyclotriphosphazene-modified graphite and carbon nanotubes. *Polymer Composites*, **2018**, 39, E891-E901	3	10
72	The flammability of expandable polystyrene foams coated with melamine modified urea formaldehyde resin. *Journal of Applied Polymer Science*, **2017**, 134,	2.9	10
71	Multi-gene fluorescence in situ hybridization to detect cell cycle gene copy number aberrations in young breast cancer patients. *Cell Cycle*, **2014**, 13, 1299-305	4.7	10
70	Synthesis and characterization of ion-exchangeable layered Octabenzenesulphonate Polyhedral Oligomeric Silsesquioxanes modified by surfactant. *Materials Letters*, **2006**, 60, 1823-1827	3.3	10
69	Determination of 5-Hydroxyindole Acetic Acid by Electrochemical Methods with an Oxidized Glassy Carbon Electrode. *Electrochimica Acta*, **2016**, 216, 528-534	6.7	10

68	Self-intumescent polyelectrolyte for flame retardant poly (lactic acid) nonwovens. *Journal of Cleaner Production*, **2021**, 282, 124497	10.3	10
67	Preparation of flame retardant and conductive epoxy resin composites by incorporating functionalized multi-walled carbon nanotubes and graphite sheets. *Polymers for Advanced Technologies*, **2021**, 32, 2093-2101	3.2	10
66	One-Pot Preparation of Peptide-Doped Metal-Amino Acid Framework for General Encapsulation and Targeted Delivery. *ACS Applied Materials & Interfaces*, **2021**, 13, 11195-11204	9.5	9
65	Behavior of Smart Surfactants in Stabilizing pH-Responsive Emulsions. *Angewandte Chemie - International Edition*, **2021**, 60, 5235-5239	16.4	9
64	Preparation of phytic acid-based green intumescent flame retardant and its application in PLA nonwovens. *Polymers for Advanced Technologies*, **2021**, 32, 3039-3049	3.2	8
63	Is there any way to simultaneously enhance both the flame retardancy and toughness of polylactic acid?. *Polymer Composites*, **2019**, 40, 932-941	3	8
62	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	1.9	8
61	The Application of a Novel Char Source From Petroleum Refining Waste in Flame Retardant Thermoplastic Polyurethane. *Polymer Engineering and Science*, **2020**, 60, 1029-1034	2.3	7
60	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	1.5	7
59	Impregnation of phytic acid into the delignified wood to realize excellent flame retardant. *Industrial Crops and Products*, **2022**, 176, 114364	5.9	7
58	A new approach on improving the fire resistance of polyamide 11 by incorporating sulfur-based flame retardant. *Polymers for Advanced Technologies*, **2019**, 30, 1605-1615	3.2	6
57	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	5.8	6
56	Effect of ethyl-bridged diphenylphosphine oxide on flame retardancy and thermal properties of epoxy resin. *Polymers for Advanced Technologies*, **2020**, 31, 1426-1436	3.2	6
55	CdSe x S1⊠ /CdS-cosensitized 3D TiO2 hierarchical nanostructures for efficient energy conversion. *Journal of Solid State Electrochemistry*, **2018**, 22, 347-353	2.6	6
54	Flammability and Char Formation of Polyamide 66 Fabric: Chemical Grafting versus Pad-Dry Process. *Industrial & Engineering Chemistry Research*, **2015**, 54, 6085-6092	3.9	6
53	Enhancing flame retardant and antistatic properties of polyamide 6 by a grafted multiwall carbon nanotubes. *Journal of Applied Polymer Science*, **2021**, 138, 50015	2.9	6
52	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	8.4	6
51	Preparation of Intumescent Flame Retardant Poly(butylene succinate) Using Urea Intercalated Kaolinite as Synergistic Agent. *Fibers and Polymers*, **2019**, 20, 1631-1640	2	5

50	Improving the fire performance and smoke suppression of expandable polystyrene foams by coating with multi-dimensional carbon nanoparticles. *Journal of Applied Polymer Science*, **2020**, 137, 49227	2.9	5
49	Constraint 3D density interface inversion from gravity anomalies. *Arabian Journal of Geosciences*, **2016**, 9, 1	1.8	5
48	An improved method for the durability of the flame retardant PA66 fabric. *Journal of Thermal Analysis and Calorimetry*, **2017**, 128, 193-199	4.1	5
47	Fabrication of Fly Ash-Based Mesoporous Aluminosilicate Oxides Loaded with Zinc and its Synergistic Fire Resistancy in Polypropylene. *Journal of Vinyl and Additive Technology*, **2020**, 26, 135-143	2	5
46	Surface modification of polyamide66 fabric by grafting with vinyltrimethoxysilane. *Chemical Research in Chinese Universities*, **2017**, 33, 492-498	2.2	4
45	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	2	4
44	Improving the flame retardant properties of polyester-cotton blend fabrics by introducing an intumescent coating via layer by layer assembly. *Journal of Applied Polymer Science*, **2020**, 137, 49253	2.9	4
43	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	2.9	4
42	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	6	4
41	The electron-beam (EB) irradiation and grafting of acrylic monomers onto EPDM copolymer. *Science Bulletin*, **2000**, 45, 322-325		4
40	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	2.2	4
39	Smoke density evaluation of acrylic resin and intumescent flame retardant coatings. *Pigment and Resin Technology*, **2016**, 45, 86-92	1	4
38	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	7.9	4
37	Effects of divinylbenzene-maleic anhydride copolymer hollow microspheres on crystallization behaviors, mechanical properties and heat resistance of poly(l-lactide acid). *Polymers for Advanced Technologies*, **2020**, 31, 817-826	3.2	3
36	Enhancing the thermostability, UV shielding and antimicrobial activity of transparent chitosan film by carbon quantum dots containing N/P.. *Carbohydrate Polymers*, **2022**, 278, 118957	10.3	3
35	The Preparation and Characterization of Polylactic Acid Composites with Chitin-Based Intumescent Flame Retardants. *Polymers*, **2021**, 13,	4.5	3
34	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	3.2	3
33	Preparation of hexakis (4-aldehyde phenoxy) cyclotriphosphazene grafted kaolinite and its synergistic fire resistance in poly (butylene succinate). *Polymer Composites*, **2020**, 41, 1024-1035	3	3

32	Photoaging and Fire Performance of Polypropylene Containing Melamine Phosphate. *ACS Applied Polymer Materials*, **2020**, 2, 4455-4463	4.3	3
31	A (4-fluorophenyl)(phenyl)phosphine oxide-modified epoxy resin with improved flame-retardancy, hydrophobicity, and dielectric properties. *Journal of Applied Polymer Science*, **2021**, 138, 50792	2.9	3
30	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	2	3
29	Improving the mechanical properties and flame retardancy of ethylene-vinyl acetate copolymer by introducing bis [3-(triethoxysilyl) propyl] tetrasulfide modified magnesium hydroxide. *Surface and Interface Analysis*, **2017**, 49, 607-614	1.5	2
28	The investigation of pyrolysis mechanism of heptakis[3-O-methyl-2,6-di-O-(methoxybenzyl)]-Ecyclodextrin by Py-GC and Py-GC/MS. *Journal of Analytical and Applied Pyrolysis*, **1997**, 42, 9-19	6	2
27	NIR-II photothermal therapy for effective tumor eradication enhanced by heterogeneous nanorods with dual catalytic activities. *Nano Research*,1	10	2
26	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	4.4	2
25	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	7.9	2
24	The fire performance of polyamide66 fabric coated with soybean protein isolation. *Progress in Organic Coatings*, **2020**, 148, 105835	4.8	2
23	Self-assembly and rheological behavior of novel anionic and cationic gemini surfactants. *Colloid and Polymer Science*, **2020**, 298, 1619-1628	2.4	2
22	An efficient and eco-friendly route to prepare graphene nanosheet and its effect on the flammability of polypropylene composites. *Polymers for Advanced Technologies*, **2021**, 32, 3358-3361	3.2	2
21	The encapsulation of intumescent flame retardants by poly-siloxane for thermoplastic polyolefin: Fire safety and water resistance. *Polymer Degradation and Stability*, **2021**, 188, 109561	4.7	2
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