Lijun Qian

List of Publications by Year
in descending order

93 papers	4,055 citations	109264 35 h-index	128225 60 g-index
94 all docs	94 docs citations	94 times ranked	1906 citing authors

#	Article	IF	Citations
1	The flame retardancy of ionic liquid functionalized graphene oxide in unsaturated polyester resins. Fire and Materials, 2022, 46, 743-752.	0.9	8
2	Construction of crosslinking network structures by adding<scp>ZnO</scp>and<scp>ADR</scp>in intumescent flame retardant<scp>PLA</scp>composites. Polymers for Advanced Technologies, 2022, 33, 198-211.	1.6	9
3	Preparation of ionic liquid multifunctional graphene oxide and its effect on decrease fire hazards of flexible polyurethane foam. Journal of Thermal Analysis and Calorimetry, 2022, 147, 7289-7297.	2.0	8
4	Design of copper salt@graphene nanohybrids to accomplish excellent resilience and superior fire safety for flexible polyurethane foam. Journal of Colloid and Interface Science, 2022, 606, 1205-1218.	5.0	20
5	The improvement of fire safety performance of flexible polyurethane foam by Highly-efficient P-N-S elemental hybrid synergistic flame retardant. Journal of Colloid and Interface Science, 2022, 606, 768-783.	5.0	59
6	Flame-retardant activity of ternary integrated modified boron nitride nanosheets to epoxy resin. Journal of Colloid and Interface Science, 2022, 608, 853-863.	5.0	89
7	A novel high phosphorusâ€efficiency phosphaphenanthrene curing agent for fabricating flame retardant and toughened epoxy thermoset. Polymers for Advanced Technologies, 2022, 33, 770-781.	1.6	10
8	High-performance flexible polyurethane foam based on hierarchical BN@MOF-LDH@APTES structure: Enhanced adsorption, mechanical and fire safety properties. Journal of Colloid and Interface Science, 2022, 609, 794-806.	5.0	23
9	Mechanically Robust and Flame-Retardant Polylactide Composites Based on In Situ Formation of Crosslinked Network Structure by DCP and TAIC. Polymers, 2022, 14, 308.	2.0	7
10	High-Performance Biobased Vinyl Ester Resin with Schiff Base Derived from Vanillin. ACS Applied Polymer Materials, 2022, 4, 2604-2613.	2.0	17
11	Enhanced Flame Retardancy in Ethyleneâ€"Vinyl Acetate Copolymer/Magnesium Hydroxide/Polycarbosilane Blends. Polymers, 2022, 14, 36.	2.0	6
12	Effect of amino acidâ€triazine copolymer on intumescent flame retardant ethyleneâ€vinyl acetate. Journal of Applied Polymer Science, 2022, 139, .	1.3	5
13	Effect of two boron compounds on smokeâ€suppression and flameâ€retardant properties for rigid polyurethane foams. Polymer International, 2022, 71, 1210-1219.	1.6	7
14	Double organic groupsâ€containing polyhedral oligomeric silsesquioxane filled epoxy with enhanced fire safety. Journal of Applied Polymer Science, 2022, 139, .	1.3	7
15	Carbonizationâ€dominated synergistic behaviors of ammonium hypophosphite/<scp>EG</scp> composite in improving flame retardancy of flexible polyurethane foam. Polymers for Advanced Technologies, 2022, 33, 3238-3248.	1.6	3
16	Grafting cellulose nanocrystals with phosphazene-containing compound for simultaneously enhancing the flame retardancy and mechanical properties of polylactic acid. Cellulose, 2022, 29, 6143-6160.	2.4	13
17	Effect of gasâ€condensed phase synergistic system of 9,10â€dihydroâ€9â€oxoâ€10â€phosphaphenanthreneâ€10â€oxide and polydopamine on flame retardancy of epoxy resin. Journal of Applied Polymer Science, 2021, 138, 49698.	1.3	12
18	Effect of <scp>phosphorusâ€"nitrogen</scp> compound on flame retardancy and mechanical properties of polylactic acid. Journal of Applied Polymer Science, 2021, 138, 49829.	1.3	21

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19	Synergistic effect of polyimide charring agent and hexaphenoxycyclotriphosphazene on improving fire safety of polycarbonate: High graphitization to strengthen the char layer. Polymers for Advanced Technologies, 2021, 32, 1135-1149.	1.6	17
20	Mechanical properties and flame retardancy of PLA composites containing zinc oxide and chain extender. Journal of Applied Polymer Science, 2021, 138, 50987.	1.3	15
21	Applications of GO/OAâ€POSS Layerâ€byâ€Layer selfâ€assembly nanocoating on flame retardancy and smoke suppression of flexible polyurethane foam. Polymers for Advanced Technologies, 2021, 32, 4516-4530.	1.6	10
22	Eco-friendly phosphonic acid piperazine salt toward high-efficiency smoke suppression and flame retardancy for epoxy resins. Journal of Materials Science, 2021, 56, 16999-17010.	1.7	12
23	Improved mechanical and flame resistance properties of vinyl ester resin composites by lithium containing polyhedral oligomeric phenyl silsesquioxane. Polymer Composites, 2021, 42, 5424-5434.	2.3	10
24	Toughening and strengthening epoxy resin with flame retardant molecular structure based on tyrosine. Polymer, 2021, 230, 124045.	1.8	32
25	Fully Biobased Surface-Functionalized Microcrystalline Cellulose <i>via</i> Green Self-Assembly toward Fire-Retardant, Strong, and Tough Epoxy Biocomposites. ACS Sustainable Chemistry and Engineering, 2021, 9, 13595-13605.	3.2	72
26	Self-compatibilization effect of phosphonate with cyano group on flame retardancy and mechanical properties of epoxy. Polymer, 2021, 234, 124236.	1.8	4
27	Strengthen flame retardancy of epoxy thermoset by montmorillonite particles adhering phosphorusâ€containing fragments. Journal of Applied Polymer Science, 2020, 137, 47500.	1.3	18
28	Flame retardant and toughening behaviors of bioâ€based DOPOâ€containing curing agent in epoxy thermoset. Polymers for Advanced Technologies, 2020, 31, 461-471.	1.6	33
29	Flame retardant application of a hypophosphite/cyclotetrasiloxane bigroup compound on polycarbonate. Journal of Applied Polymer Science, 2020, 137, 48699.	1.3	30
30	Epoxy thermoset with enhanced flame retardancy and physical-mechanical properties based on reactive phosphaphenanthrene compound. Polymer Degradation and Stability, 2020, 172, 109063.	2.7	40
31	Flame retardancy and pyrolysis behavior of an epoxy resin composite flameâ€retarded by diphenylphosphinylâ€POSS. Polymer Engineering and Science, 2020, 60, 3024-3035.	1.5	14
32	Enhancement of the intumescent flame retardant efficiency in polypropylene by synergistic charring effect of a hypophosphite/cyclotetrasiloxane bi-group compound. Polymer Degradation and Stability, 2020, 181, 109281.	2.7	30
33	Impact on flame retardancy and degradation behavior of intumescent flameâ€retardant <scp>EP</scp> composites by a hyperbranched triazineâ€based charring agent. Polymers for Advanced Technologies, 2020, 31, 3316-3327.	1.6	30
34	Flameâ€retardant behavior and protective layer effect of phosphazeneâ€triazine biâ€group flame retardant on polycarbonate. Journal of Applied Polymer Science, 2020, 137, 49523.	1.3	23
35	Jointâ€aggregation intumescent flameâ€retardant effect of ammonium polyphosphate and charring agent in polypropylene. Polymers for Advanced Technologies, 2020, 31, 1699-1708.	1.6	15
36	Quickly self-extinguishing flame retardant behavior of rigid polyurethane foams linked with phosphaphenanthrene groups. Composites Part B: Engineering, 2019, 175, 107186.	5.9	58

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37	Flame retardancy of epoxy resin nanocomposite with a novel polymeric nanoflame retardant. Polymers for Advanced Technologies, 2019, 30, 2833-2845.	1.6	9
38	Biâ€phase flameâ€retardant effect of dimethyl methylphosphonate and modified ammonium polyphosphate on rigid polyurethane foam. Polymers for Advanced Technologies, 2019, 30, 2721-2728.	1.6	29
39	Synthesis of (1,4â€Methylenephenylphosphinic acid) Piperazine and Its Application as a Flame Retardant in Epoxy Thermosets. Macromolecular Materials and Engineering, 2019, 304, 1900419.	1.7	42
40	Intumescent flame retardant behavior of charring agents with different aggregation of piperazine/triazine groups in polypropylene. Polymer Degradation and Stability, 2019, 169, 108982.	2.7	53
41	Improving the fracture toughness and flame retardant properties of epoxy thermosets by phosphaphenanthrene/siloxane cluster-like molecules with multiple reactive groups. Composites Part B: Engineering, 2019, 178, 107481.	5.9	69
42	Flame Retardant Behavior of Ternary Synergistic Systems in Rigid Polyurethane Foams. Polymers, 2019, 11, 207.	2.0	40
43	Flame Inhibition and Charring Effect of Aromatic Polyimide and Aluminum Diethylphosphinate in Polyamide 6. Polymers, 2019, 11, 74.	2.0	23
44	High-efficiency flame retardant behavior of bi-DOPO compound with hydroxyl group on epoxy resin. Polymer Degradation and Stability, 2019, 166, 344-352.	2.7	113
45	Enhancement of an organicâ€"metallic hybrid charring agent on flame retardancy of ethylene-vinyl acetate copolymer. Royal Society Open Science, 2019, 6, 181413.	1.1	24
46	The pyrolysis behaviors of phosphorus-containing organosilicon compound modified APP with different polyether segments and their flame retardant mechanism in polyurethane foam. Composites Part B: Engineering, 2019, 173, 106784.	5.9	68
47	Synergistic Effects of Nano-zinc Oxide on Improving the Flame Retardancy of EVA Composites with an Efficient Triazine-Based Charring Agent. Journal of Polymers and the Environment, 2019, 27, 1127-1140.	2.4	27
48	Synergistic Charring Flame-Retardant Behavior of Polyimide and Melamine Polyphosphate in Glass Fiber-Reinforced Polyamide 66. Polymers, 2019, 11, 1851.	2.0	24
49	Synthesis and Characterization of Aluminum 2-Carboxyethyl-Phenyl-Phosphinate and Its Flame-Retardant Application in Polyester. Polymers, 2019, 11, 1969.	2.0	14
50	Flame retardancy and thermal behavior of intumescent flame-retardant EVA composites with an efficient triazine-based charring agent. Materials Research Express, 2018, 5, 045309.	0.8	27
51	Phosphorusâ€containing silica gelâ€coated ammonium polyphosphate: Preparation, characterization, and its effect on the flame retardancy of rigid polyurethane foam. Journal of Applied Polymer Science, 2018, 135, 46334.	1.3	29
52	High-performance flame retardant epoxy resin based on a bi-group molecule containing phosphaphenanthrene and borate groups. Polymer Degradation and Stability, 2018, 153, 210-219.	2.7	69
53	The synergistic flameâ€retardant behaviors of pentaerythritol phosphate and expandable graphite in rigid polyurethane foams. Polymer Composites, 2018, 39, 329-336.	2.3	47
54	Flameâ€retardant behavior of a phosphorus/silicon compound on polycarbonate. Journal of Applied Polymer Science, 2018, 135, 45815.	1.3	19

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55	Synergistic flameâ€retardant effect and mechanisms of boron/phosphorus compounds on epoxy resins. Polymers for Advanced Technologies, 2018, 29, 641-648.	1.6	56
56	Addition flameâ€retardant effect of nonreactive phosphonate and expandable graphite in rigid polyurethane foams. Journal of Applied Polymer Science, 2018, 135, 45960.	1.3	30
57	Toughening Effect and Flame-Retardant Behaviors of Phosphaphenanthrene/Phenylsiloxane Bigroup Macromolecules in Epoxy Thermoset. Macromolecules, 2018, 51, 9992-10002.	2.2	144
58	Synthesis and characterization of a novel organic-inorganic hybrid char-forming agent and its flame-retardant application in polypropylene composites. Journal of Analytical and Applied Pyrolysis, 2018, 134, 231-242.	2.6	124
59	The pyrolysis behaviors of phosphorus-containing organosilicon compound modified ammonium polyphosphate with different phosphorus-containing groups, and their different flame-retardant mechanisms in polyurethane foam. RSC Advances, 2018, 8, 27470-27480.	1.7	23
60	A wrapped nano-flame retardant composed of carbon nanotubes and phosphorus-nitrogen containing polymer: synthesis, properties and flame-retardant mechanism. Journal of Polymer Research, 2018, 25, 1.	1.2	13
61	Synergistic effect of organo-montmorillonite on intumescent flame-retardant PLA. Ferroelectrics, 2018, 527, 25-36.	0.3	18
62	Synergistic barrier flame-retardant effect of aluminium poly-hexamethylenephosphinate and bisphenol-A bis(diphenyl phosphate) in epoxy resin. Polymer International, 2017, 66, 719-725.	1.6	14
63	Enhanced flame-retardant effect of a montmorillonite/phosphaphenanthrene compound in an epoxy thermoset. RSC Advances, 2017, 7, 720-728.	1.7	82
64	Terminal group effects of phosphazene-triazine bi-group flame retardant additives in flame retardant polylactic acid composites. Polymer Degradation and Stability, 2017, 140, 166-175.	2.7	129
65	Preparation and characterization of surfaceâ€modified ammonium polyphosphate and its effect on the flame retardancy of rigid polyurethane foam. Journal of Applied Polymer Science, 2017, 134, 45369.	1.3	43
66	Synergistic flameâ€retardant effect of phosphaphenanthrene derivative and aluminum diethylphosphinate in glass fiber reinforced polyamide 66. Journal of Applied Polymer Science, 2017, 134, 45126.	1.3	12
67	Synthesis of a novel flame retardant containing phosphazene and triazine groups and its enhanced charring effect in poly(lactic acid) resin. Journal of Applied Polymer Science, 2017, 134, .	1.3	18
68	A novel triazine-rich polymer wrapped MMT: synthesis, characterization and its application in flame-retardant poly(butylene terephthalate). RSC Advances, 2017, 7, 47324-47331.	1.7	16
69	Synergistic charring effect of triazinetrione-alkyl-phosphinate and phosphaphenanthrene derivatives in epoxy thermosets. RSC Advances, 2017, 7, 46505-46513.	1.7	14
70	Pyrolysis and flame retardant behavior of a novel compound with multiple phosphaphenanthrene groups in epoxy thermosets. Journal of Analytical and Applied Pyrolysis, 2017, 127, 23-30.	2.6	30
71	Improved flame retardancy by synergy between cyclotetrasiloxane and phosphaphenanthrene/triazine compounds in epoxy thermoset. Polymer International, 2017, 66, 1883-1890.	1.6	22
72	Gaseous-phase flame retardant behavior of a multi-phosphaphenanthrene compound in a polycarbonate composite. RSC Advances, 2017, 7, 51290-51297.	1.7	18

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73	Flammability and anti-dripping behaviors of polylactide composite containing hyperbranched triazine compound. Integrated Ferroelectrics, 2016, 172, 10-24.	0.3	12
74	Joint flameâ€retardant effect of triazineâ€rich and triazine/phosphaphenanthrene compounds on epoxy resin thermoset. Journal of Applied Polymer Science, 2016, 133, .	1.3	12
75	Phosphorus-nitrogen containing polymer wrapped carbon nanotubes and their flame-retardant effect on epoxy resin. Polymer Degradation and Stability, 2016, 129, 133-141.	2.7	56
76	Gas-phase flame-retardant effects of a bi-group compound based on phosphaphenanthrene and triazine-trione groups in epoxy resin. Polymer Degradation and Stability, 2016, 133, 350-357.	2.7	102
77	Continuous flame-retardant actions of two phosphate esters with expandable graphite in rigid polyurethane foams. Polymer Degradation and Stability, 2016, 130, 97-102.	2.7	95
78	Flame-retardant effect of a novel phosphaphenanthrene/triazine-trione bi-group compound on an epoxy thermoset and its pyrolysis behaviour. RSC Advances, 2016, 6, 56018-56027.	1.7	57
79	Flame-retardant behavior of bi-group molecule derived from phosphaphenanthrene and triazine groups on polylactic acid. Polymers for Advanced Technologies, 2016, 27, 781-788.	1.6	38
80	Synergistic flame-retardant behavior and mechanisms of aluminum poly-hexamethylenephosphinate and phosphaphenanthrene in epoxy resin. Polymer Degradation and Stability, 2016, 130, 173-181.	2.7	64
81	High-performance flame retardancy by char-cage hindering and free radical quenching effects in epoxy thermosets. Polymer, 2015, 68, 262-269.	1.8	123
82	Synthesis and characterization of aluminum poly-hexamethylenephosphinate and its flame-retardant application in epoxy resin. Polymer Degradation and Stability, 2015, 122, 8-17.	2.7	76
83	Addition flame-retardant behaviors of expandable graphite and [bis(2-hydroxyethyl)amino]-methyl-phosphonic acid dimethyl ester in rigid polyurethane foams. Polymer Degradation and Stability, 2015, 122, 36-43.	2.7	87
84	The flame retardant behaviors and synergistic effect of expandable graphite and dimethyl methylphosphonate in rigid polyurethane foams. Polymer Composites, 2014, 35, 301-309.	2.3	106
85	The flame retardant groupâ€synergisticâ€effect of a phosphaphenanthrene and triazine doubleâ€group compound in epoxy resin. Journal of Applied Polymer Science, 2014, 131, .	1.3	92
86	Bi-phase flame-retardant effect of hexa-phenoxy-cyclotriphosphazene on rigid polyurethane foams containing expandable graphite. Polymer, 2014, 55, 95-101.	1.8	115
87	Component ratio effects of hyperbranched triazine compound and ammonium polyphosphate in flameâ€retardant polypropylene composites. Journal of Applied Polymer Science, 2014, 131, .	1.3	141
88	Pyrolysis route of a novel flame retardant constructed by phosphaphenanthrene and triazine-trione groups and its flame-retardant effect on epoxy resin. Polymer Degradation and Stability, 2014, 107, 98-105.	2.7	173
89	Thermal degradation behavior of the compound containing phosphaphenanthrene and phosphazene groups and its flame retardant mechanism on epoxy resin. Polymer, 2011, 52, 5486-5493.	1.8	251
90	Selective detection of phosphaphenanthrenecontaining luminophors with aggregation-induced emission enhancement to transition metal ions. Frontiers of Chemistry in China: Selected Publications From Chinese Universities, 2011, 6, 15-20.	0.4	1

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91	Synthesis and characterization of main-chain liquid crystalline copolyesters containing phosphaphenanthrene side-groups. Polymer, 2009, 50, 4813-4820.	1.8	23
92	Crystallization-Induced Emission Enhancement in a Phosphorus-Containing Heterocyclic Luminogen. Journal of Physical Chemistry B, 2009, 113, 9098-9103.	1.2	80
93	Supramolecular structured hydrogel preparation based on self-assemblies of photocurable star-shaped macromers with Î±-cyclodextrins. Journal of Polymer Science Part A, 2005, 43, 2941-2949.	2.5	31