Rongjie Yang

List of Publications by Year
in descending order

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55	1,991	331259 21	253896 43
papers	citations	h-index	g-index

55	55	55	1440
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Polymer/polyhedral oligomeric silsesquioxane (POSS) nanocomposites: An overview of fire retardance. Progress in Polymer Science, 2017, 67, 77-125.	11.8	334
2	Study on mechanism of phosphorusâ€“silicon synergistic flame retardancy on epoxy resins. Polymer Degradation and Stability, 2012, 97, 2241-2248.	2.7	119
3	Using TGA/FTIR TGA/MS and cone calorimetry to understand thermal degradation and flame retardancy mechanism of polycarbonate filled with solid bisphenol A bis(diphenyl phosphate) and montmorillonite. Polymer Degradation and Stability, 2012, 97, 605-614.	2.7	118
4	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
5	The rise of MOFs and their derivatives for flame retardant polymeric materials: A critical review. Composites Part B: Engineering, 2020, 199, 108265.	5.9	98
6	The characterization of DOPO/MMT nanocompound and its effect on flame retardancy of epoxy resin. Composites Part A: Applied Science and Manufacturing, 2017, 98, 124-135.	3.8	95
7	Study of the synergistic effect of silicon and phosphorus on the blowing-out effect of epoxy resin composites. Polymer Degradation and Stability, 2012, 97, 1041-1048.	2.7	94
8	High-efficiency flame retardancy of epoxy resin composites with perfect T8 caged phosphorus containing polyhedral oligomeric silsesquioxanes (P-POSSs). Composites Science and Technology, 2016, 127, 8-19.	3.8	94
9	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
10	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
11	Facile synthesis of transition metal containing polyhedral oligomeric silsesquioxane complexes with mesoporous structures and their applications in reducing fire hazards, enhancing mechanical and dielectric properties of epoxy composites. Journal of Hazardous Materials, 2021, 401, 123439.	6.5	50
12	Optically transparent and flame-retarded polycarbonate nanocomposite based on diphenylphosphine oxide-containing polyhedral oligomeric silsesquioxanes. Composites Part A: Applied Science and Manufacturing, 2019, 117, 92-102.	3.8	47
13	Investigations of epoxy resins flame-retarded by phenyl silsesquioxanes of cage and ladder structures. Polymer Degradation and Stability, 2013, 98, 246-254.	2.7	46
14	Flame retardancy mechanisms of phosphorusâ€containing polyhedral oligomeric silsesquioxane (DOPOâ€POSS) in polycarbonate/acrylonitrileâ€butadieneâ€styrene blends. Polymers for Advanced Technologies, 2012, 23, 588-595.	1.6	39
15	Blowingâ€out effect and temperature profile in condensed phase in flame retarding epoxy resins by phosphorusâ€containing oligomeric silsesquioxane. Polymers for Advanced Technologies, 2013, 24, 951-961.	1.6	38
16	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
17	Precise Control of a Yolk-Double Shell Metalâ€“Organic Framework-Based Nanostructure Provides Enhanced Fire Safety for Epoxy Nanocomposites. ACS Applied Materials & Interfaces, 2022, 14, 14805-14816.	4.0	33
18	FTIR and GCMS analysis of epoxy resin decomposition products feeding the flame during UL 94 standard flammability test. Application to the understanding of the blowing-out effect in epoxy/polyhedral silsesquioxane formulations. Journal of Analytical and Applied Pyrolysis, 2018, 135, 271-280.	2.6	32

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19	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
20	Nickle nanocrystals decorated on graphitic nanotubes with broad channels for fire hazard reduction of epoxy resin. Journal of Hazardous Materials, 2021, 402, 123880.	6.5	25
21	Enhanced fire safety and mechanical properties of epoxy resin composites based on submicrometer-sized rod-structured methyl macrocyclic silsesquioxane sodium salt. Chemical Engineering Journal, 2021, 425, 130566.	6.6	24
22	Pyrolysis of ammonium perfluorooctanoate (APFO) and its interaction with nano-aluminum. Chemical Engineering Journal, 2021, 403, 126367.	6.6	22
23	Preparation and Characterization of Organicâ€“Inorganic Hybrid Macrocyclic Compounds: Cyclic Ladder-like Polyphenylsilsesquioxanes. Inorganic Chemistry, 2018, 57, 3883-3892.	1.9	21
24	Synthesis of incompletely caged silsesquioxane (T7-POSS) compounds via a versatile three-step approach. Research on Chemical Intermediates, 2018, 44, 4277-4294.	1.3	20
25	Crystallization and flameâ€•retardant properties of polylactic acid composites with polyhedral octaphenyl silsesquioxane. Polymers for Advanced Technologies, 2019, 30, 648-665.	1.6	19
26	Crystallization, flameâ€•retardant, and mechanical behaviors of poly(lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 Td (acid)9,10â€•dih Journal of Applied Polymer Science, 2019, 136, 46982.	1.3	19
27	The Effect of Different Smoke Suppressants with APP for Enhancing the Flame Retardancy and Smoke Suppression on Vinyl Ester Resin. Polymer Engineering and Science, 2020, 60, 314-322.	1.5	18
28	High-Performance Biobased Vinyl Ester Resin with Schiff Base Derived from Vanillin. ACS Applied Polymer Materials, 2022, 4, 2604-2613.	2.0	17
29	The effect of pyrolysis gaseous and condensed char of PC/PPSQ composite on combustion behavior. Polymer Degradation and Stability, 2016, 129, 47-55.	2.7	16
30	Flame retardant and mechanism of vinyl ester resin modified by octaphenyl polyhedral oligomeric silsesquioxane. Polymers for Advanced Technologies, 2019, 30, 3061-3072.	1.6	16
31	Flame retardant epoxy composites with epoxyâ€•containing polyhedral oligomeric silsesquioxanes. Polymers for Advanced Technologies, 2020, 31, 2058-2074.	1.6	16
32	Effect of polyhedral oligomeric silsesquioxanes with different structures on dielectric and mechanical properties of epoxy resin. Polymer Composites, 2021, 42, 3445-3457.	2.3	16
33	Perfluoroalkyl Acid-Functionalized Aluminum Nanoparticles for Fluorine Fixation and Energy Generation. ACS Applied Nano Materials, 2021, 4, 6337-6344.	2.4	16
34	Enhanced mechanical and flame retardancy properties of vinyl ester resin systems with the synthesis of two flame retardants with vinyl group. Polymer International, 2020, 69, 1196-1206.	1.6	15
35	Halogen-free and phosphorus-free flame-retarded polycarbonate using cyclic polyphenylsilsesquioxanes. Journal of Materials Science, 2020, 55, 10953-10967.	1.7	15
36	Study on Interaction between Propargyl-Terminated Polybutadiene and Plasticizers Based on Simulation and Experiments. Journal of Physical Chemistry A, 2019, 123, 6370-6377.	1.1	14

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37	Study on flame retardancy of APP/PEPA/MoO₃ synergism in vinyl ester resins. Journal of Applied Polymer Science, 2020, 137, 49026.	1.3	13
38	Flame retardant composites of ladder phenyl/vinyl polysilsesquioxane-reinforced vinyl ester. Journal of Materials Science, 2021, 56, 457-473.	1.7	13
39	High-transparency polysilsesquioxane/glycidyl-azide-polymer resin and its fiberglass-reinforced composites with excellent fire resistance, mechanical properties, and water resistance. Composites Part B: Engineering, 2021, 219, 108913.	5.9	12
40	Controllable dimensions and regular geometric architectures from self-assembly of lithium-containing polyhedral oligomeric silsesquioxane: Build for enhancing the fire safety of epoxy resin. Composites Part B: Engineering, 2022, 229, 109483.	5.9	12
41	Synthesis of novel phosphonium <scp>bromideâ€montmorillonite</scp> nanocompound and its performance in flame retardancy and dielectric properties of epoxy resins. Polymer Composites, 2021, 42, 362-374.	2.3	11
42	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
43	Interdigitated crystalline <scp>MMTâ€MCA</scp>: Preparation and characterization. Polymers for Advanced Technologies, 2018, 29, 22-29.	1.6	9
44	Interpenetrating polymer network-based composites reinforced by polysilsesquioxanes: Molecular dynamic simulations and experimental analysis. Composites Part B: Engineering, 2021, 209, 108604.	5.9	9
45	Polycarbonate composites with high light transmittance, haze, and flame retardancy based on a series of incomplete-cage oligomeric silsesquioxanes. Journal of Materials Science, 2021, 56, 428-441.	1.7	8
46	Preparation of efficiently intumescent-flame-retarded polypropylene composite: synergistic effect of novel phosphorus-containing polyhedral oligomeric silsesquioxane. Plastics, Rubber and Composites, 2021, 50, 464-476.	0.9	8
47	Iron-Containing Polyhedral Oligomeric Silsesquioxane Assembly Supported on Hexagonal Boron Nitride and Its Effect on Epoxy Resins. ACS Applied Polymer Materials, 2022, 4, 5648-5659.	2.0	8
48	Double organic groupsâ€containing polyhedral oligomeric silsesquioxane filled epoxy with enhanced fire safety. Journal of Applied Polymer Science, 2022, 139, .	1.3	7
49	Direct diazotization of graphite nanoplatelets with melamine and their favorable application in epoxy resins. Polymers for Advanced Technologies, 2020, 31, 1300-1311.	1.6	6
50	Mechanical and flame retardant performance of fiberglass-reinforced polysilsesquioxane interpenetrated with poly(ethylene glycol)-urethane. Composites Part A: Applied Science and Manufacturing, 2021, 149, 106490.	3.8	6
51	Synthesis and performance of intrinsically flame-retardant, low-smoke biobased vinyl ester resin. Reactive and Functional Polymers, 2022, 171, 105158.	2.0	6
52	Mechanical and flameâ€retardant properties and thermal decomposition of vinyl ester resin modified by different phenyl silsesquioxanes. Polymers for Advanced Technologies, 2020, 31, 1836-1846.	1.6	5
53	Micro-Nanometer Particle Composition and Functional Design of Surface Nano-Structured Ammonium Polyphosphate and Its Application in Intumescent Flame-Retardant Polypropylene. Nanomaterials, 2022, 12, 606.	1.9	4
54	Synthesis and thermal curing of liquid unsaturated polysilsesquioxane and its mechanical and thermal properties. Polymer Degradation and Stability, 2020, 178, 109200.	2.7	2

#	Article	IF	Citations
55	Preparation and Characterization of TCPP-CaMMT Nanocompound and Its Composite with Polypropylene. Nanomaterials, 2022, 12, 1428.	1.9	1