

Rongjie Yang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

49
papers

1,188
citations

16
h-index

33
g-index

55
ext. papers

1,545
ext. citations

6.6
avg, IF

5.27
L-index

#	Paper	IF	Citations
49	Controllable dimensions and regular geometric architectures from self-assembly of lithium-containing polyhedral oligomeric silsesquioxane: Build for enhancing the fire safety of epoxy resin. <i>Composites Part B: Engineering</i> , 2022 , 229, 109483	10	2
48	Synthesis and performance of intrinsically flame-retardant, low-smoke biobased vinyl ester resin. <i>Reactive and Functional Polymers</i> , 2022 , 171, 105158	4.6	
47	High-Performance Biobased Vinyl Ester Resin with Schiff Base Derived from Vanillin. <i>ACS Applied Polymer Materials</i> , 2022 , 4, 2604-2613	4.3	3
46	Delamination and Engineered Interlayers of TiC MXenes using Phosphorous Vapor toward Flame-Retardant Epoxy Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 48196-48207	9.5	7
45	Interpenetrating polymer network-based composites reinforced by polysilsesquioxanes: Molecular dynamic simulations and experimental analysis. <i>Composites Part B: Engineering</i> , 2021 , 209, 108604	10	2
44	Effect of polyhedral oligomeric silsesquioxanes with different structures on dielectric and mechanical properties of epoxy resin. <i>Polymer Composites</i> , 2021 , 42, 3445-3457	3	2
43	Preparation of efficiently intumescent-flame-retarded polypropylene composite: synergistic effect of novel phosphorus-containing polyhedral oligomeric silsesquioxane. <i>Plastics, Rubber and Composites</i> , 2021 , 50, 464-476	1.5	3
42	Perfluoroalkyl Acid-Functionalized Aluminum Nanoparticles for Fluorine Fixation and Energy Generation. <i>ACS Applied Nano Materials</i> , 2021 , 4, 6337-6344	5.6	1
41	Pyrolysis of ammonium perfluorooctanoate (APFO) and its interaction with nano-aluminum. <i>Chemical Engineering Journal</i> , 2021 , 403, 126367	14.7	8
40	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. <i>Journal of Hazardous Materials</i> , 2021 , 401, 123439	12.8	17
39	Nickle nanocrystals decorated on graphitic nanotubes with broad channels for fire hazard reduction of epoxy resin. <i>Journal of Hazardous Materials</i> , 2021 , 402, 123880	12.8	15
38	Synthesis of novel phosphonium bromide-montmorillonite nanocompound and its performance in flame retardancy and dielectric properties of epoxy resins. <i>Polymer Composites</i> , 2021 , 42, 362-374	3	3
37	Flame retardant composites of ladder phenyl/vinyl polysilsesquioxane-reinforced vinyl ester. <i>Journal of Materials Science</i> , 2021 , 56, 457-473	4.3	4
36	Polycarbonate composites with high light transmittance, haze, and flame retardancy based on a series of incomplete-cage oligomeric silsesquioxanes. <i>Journal of Materials Science</i> , 2021 , 56, 428-441	4.3	1
35	Improved mechanical and flame resistance properties of vinyl ester resin composites by lithium containing polyhedral oligomeric phenyl silsesquioxane. <i>Polymer Composites</i> , 2021 , 42, 5424	3	3
34	High-transparency polysilsesquioxane/glycidyl-azide-polymer resin and its fiberglass-reinforced composites with excellent fire resistance, mechanical properties, and water resistance. <i>Composites Part B: Engineering</i> , 2021 , 219, 108913	10	4
33	Mechanical and flame retardant performance of fiberglass-reinforced polysilsesquioxane interpenetrated with poly(ethylene glycol)-urethane. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021 , 149, 106490	8.4	0

32	Enhanced fire safety and mechanical properties of epoxy resin composites based on submicrometer-sized rod-structured methyl macrocyclic silsesquioxane sodium salt. <i>Chemical Engineering Journal</i> , 2021 , 425, 130566	14.7	8
31	Flame retardant epoxy composites with epoxy-containing polyhedral oligomeric silsesquioxanes. <i>Polymers for Advanced Technologies</i> , 2020 , 31, 2058-2074	3.2	6
30	Enhanced mechanical and flame retardancy properties of vinyl ester resin systems with the synthesis of two flame retardants with vinyl group. <i>Polymer International</i> , 2020 , 69, 1196-1206	3.3	4
29	Study on flame retardancy of APP/PEPA/MoO ₃ synergism in vinyl ester resins. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 49026	2.9	7
28	Direct diazotization of graphite nanoplatelets with melamine and their favorable application in epoxy resins. <i>Polymers for Advanced Technologies</i> , 2020 , 31, 1300-1311	3.2	3
27	Mechanical and flame-retardant properties and thermal decomposition of vinyl ester resin modified by different phenyl silsesquioxanes. <i>Polymers for Advanced Technologies</i> , 2020 , 31, 1836-1846	3.2	3
26	Halogen-free and phosphorus-free flame-retarded polycarbonate using cyclic polyphenylsilsesquioxanes. <i>Journal of Materials Science</i> , 2020 , 55, 10953-10967	4.3	5
25	Synthesis and thermal curing of liquid unsaturated polysilsesquioxane and its mechanical and thermal properties. <i>Polymer Degradation and Stability</i> , 2020 , 178, 109200	4.7	1
24	The Effect of Different Smoke Suppressants with APP for Enhancing the Flame Retardancy and Smoke Suppression on Vinyl Ester Resin. <i>Polymer Engineering and Science</i> , 2020 , 60, 314-322	2.3	6
23	The rise of MOFs and their derivatives for flame retardant polymeric materials: A critical review. <i>Composites Part B: Engineering</i> , 2020 , 199, 108265	10	33
22	Synthesis of a novel dual layered double hydroxide hybrid nanomaterial and its application in epoxy nanocomposites. <i>Chemical Engineering Journal</i> , 2020 , 381, 122777	14.7	57
21	Dry synthesis of mesoporous nanosheet assembly constructed by cyclomatrix polyphosphazene frameworks and its application in flame retardant polypropylene. <i>Chemical Engineering Journal</i> , 2020 , 395, 125076	14.7	30
20	Study on Interaction between Propargyl-Terminated Polybutadiene and Plasticizers Based on Simulation and Experiments. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 6370-6377	2.8	5
19	Flame retardant and mechanism of vinyl ester resin modified by octaphenyl polyhedral oligomeric silsesquioxane. <i>Polymers for Advanced Technologies</i> , 2019 , 30, 3061-3072	3.2	8
18	Confined Dispersion of Zinc Hydroxystannate Nanoparticles into Layered Bimetallic Hydroxide Nanocapsules and Its Application in Flame-Retardant Epoxy Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 40951-40960	9.5	32
17	Crystallization, flame-retardant, and mechanical behaviors of poly(lactic acid)/9,10-dihydro-9-oxa-10-phosphaphenanthrene-10-oxide/calcium montmorillonite nanocomposite. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 46982	2.9	14
16	Optically transparent and flame-retarded polycarbonate nanocomposite based on diphenylphosphine oxide-containing polyhedral oligomeric silsesquioxanes. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019 , 117, 92-102	8.4	31
15	Preparation and Characterization of Organic-Inorganic Hybrid Macrocyclic Compounds: Cyclic Ladder-like Polyphenylsilsesquioxanes. <i>Inorganic Chemistry</i> , 2018 , 57, 3883-3892	5.1	13

14	Synthesis of incompletely caged silsesquioxane (T7-POSS) compounds via a versatile three-step approach. <i>Research on Chemical Intermediates</i> , 2018 , 44, 4277-4294	2.8	12
13	Interdigitated crystalline MMT-MCA: Preparation and characterization. <i>Polymers for Advanced Technologies</i> , 2018 , 29, 22-29	3.2	7
12	Crystallization and flame-retardant properties of polylactic acid composites with polyhedral octaphenyl silsesquioxane. <i>Polymers for Advanced Technologies</i> , 2018 , 30, 648	3.2	5
11	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. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018 , 135, 271-280	6	19
10	The characterization of DOPO/MMT nanocompound and its effect on flame retardancy of epoxy resin. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 98, 124-135	8.4	73
9	Polymer/polyhedral oligomeric silsesquioxane (POSS) nanocomposites: An overview of fire retardance. <i>Progress in Polymer Science</i> , 2017 , 67, 77-125	29.6	243
8	High-efficiency flame retardancy of epoxy resin composites with perfect T8 caged phosphorus containing polyhedral oligomeric silsesquioxanes (P-POSSs). <i>Composites Science and Technology</i> , 2016 , 127, 8-19	8.6	69
7	The effect of pyrolysis gaseous and condensed char of PC/PPSQ composite on combustion behavior. <i>Polymer Degradation and Stability</i> , 2016 , 129, 47-55	4.7	13
6	Blowing-out effect and temperature profile in condensed phase in flame retarding epoxy resins by phosphorus-containing oligomeric silsesquioxane. <i>Polymers for Advanced Technologies</i> , 2013 , 24, 951-964	3.2	35
5	Investigations of epoxy resins flame-retarded by phenyl silsesquioxanes of cage and ladder structures. <i>Polymer Degradation and Stability</i> , 2013 , 98, 246-254	4.7	42
4	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. <i>Polymer Degradation and Stability</i> , 2012 , 97, 605-614	4.7	103
3	Study of the synergistic effect of silicon and phosphorus on the blowing-out effect of epoxy resin composites. <i>Polymer Degradation and Stability</i> , 2012 , 97, 1041-1048	4.7	84
2	Study on mechanism of phosphorus-silicon synergistic flame retardancy on epoxy resins. <i>Polymer Degradation and Stability</i> , 2012 , 97, 2241-2248	4.7	105
1	Flame retardancy mechanisms of phosphorus-containing polyhedral oligomeric silsesquioxane (DOPO-POSS) in polycarbonate/acrylonitrile-butadiene-styrene blends. <i>Polymers for Advanced Technologies</i> , 2012 , 23, 588-595	3.2	31