

Siqi Huo

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.

69

papers

2,467

citations

29

h-index

48

g-index

72

ext. papers

3,832

ext. citations

6

avg, IF

5.87

L-index

#	Paper	IF	Citations
69	A hyperbranched P/N/B-containing oligomer as multifunctional flame retardant for epoxy resins. <i>Composites Part B: Engineering</i> , 2022 , 234, 109701	10	13
68	Interface nanoengineering of a core-shell structured biobased fire retardant for fire-retarding polylactide with enhanced toughness and UV protection. <i>Journal of Cleaner Production</i> , 2022 , 336, 130372	10.3	4
67	Recent advances in fire-retardant rigid polyurethane foam. <i>Journal of Materials Science and Technology</i> , 2022 , 112, 315-328	9.1	6
66	Flame-retardant, transparent, mechanically-strong and tough epoxy resin enabled by high-efficiency multifunctional boron-based polyphosphonamide. <i>Chemical Engineering Journal</i> , 2022 , 427, 131578	14.7	27
65	Governing effects of melt viscosity on fire performances of polylactide and its fire-retardant systems.. <i>IScience</i> , 2022 , 25, 103950	6.1	2
64	Green and Facile Synthesis of Bio-Based, Flame-Retardant, Latent Imidazole Curing Agent for Single-Component Epoxy Resin. <i>ACS Applied Polymer Materials</i> , 2022 , 4, 3564-3574	4.3	4
63	Sulfonated Block Ionomers Enable Transparent, Fire-Resistant, Tough yet Strong Polycarbonate. <i>Chemical Engineering Journal</i> , 2021 , 133264	14.7	5
62	Facile fabrication of single-component flame-retardant epoxy resin with rapid curing capacity and satisfied thermal resistance. <i>Reactive and Functional Polymers</i> , 2021 , 105103	4.6	2
61	A novel hyperbranched phosphorus-boron polymer for transparent, flame-retardant, smoke-suppressive, robust yet tough epoxy resins. <i>Composites Part B: Engineering</i> , 2021 , 227, 109395	10	7
60	Phosphorus-containing flame retardant epoxy thermosets: Recent advances and future perspectives. <i>Progress in Polymer Science</i> , 2021 , 114, 101366	29.6	129
59	A molecularly engineered bioderived polyphosphate for enhanced flame retardant, UV-blocking and mechanical properties of poly(lactic acid). <i>Chemical Engineering Journal</i> , 2021 , 411, 128493	14.7	56
58	Fabrication and Mechanism Study of Cerium-Based P, N-Containing Complexes for Reducing Fire Hazards of Polycarbonate with Superior Thermostability and Toughness. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	5
57	Recycle of magnesium alloy scrap for improving fire resistance, thermal stability, and water tolerance of intumescent fire-retardant coatings 2021 , 18, 447-458		7
56	Exfoliated and functionalized boron nitride nanosheets towards improved fire resistance and water tolerance of intumescent fire retardant coating. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50177	2.9	8
55	Mechanically Strong, Thermally Healable, and Recyclable Epoxy Vitrimers Enabled by ZnAl-Layer Double Hydroxides. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 2580-2590	8.3	14
54	A highly fire-safe and smoke-suppressive single-component epoxy resin with switchable curing temperature and rapid curing rate. <i>Composites Part B: Engineering</i> , 2021 , 207, 108601	10	69
53	One-step and green synthesis of a bio-based high-efficiency flame retardant for poly (lactic acid). <i>Polymer Degradation and Stability</i> , 2021 , 192, 109696	4.7	14

52	Polyphosphoramidate-intercalated MXene for simultaneously enhancing thermal stability, flame retardancy and mechanical properties of polylactide. <i>Chemical Engineering Journal</i> , 2020 , 397, 125336	14.7	112
51	A facile strategy to fabricate an intumescent fire-retardant coating with improved fire resistance and water tolerance for steel structure 2020 , 17, 1401-1411		8
50	Synergistic effect of polyhedral iron-cobalt alloys and graphite nanosheets with excellent microwave absorption performance. <i>Journal of Alloys and Compounds</i> , 2020 , 829, 154426	5.7	21
49	CoreShell Bioderived Flame Retardants Based on Chitosan/Alginate Coated Ammonia Polyphosphate for Enhancing Flame Retardancy of Polylactic Acid. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 6402-6412	8.3	78
48	Facile synthesis of Co-embedded porous spherical carbon composites derived from Co ₃ O ₄ /ZIF-8 compounds for broadband microwave absorption. <i>Composites Science and Technology</i> , 2020 , 195, 108206	8.6	35
47	A P/N-containing flame retardant constructed by phosphaphenanthrene, phosphonate, and triazole and its flame retardant mechanism in reducing fire hazards of epoxy resin. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 49090	2.9	21
46	Facile Synthesis of Cobalt-Doped Porous Composites with Amorphous Carbon/Zn Shell for High-Performance Microwave Absorption. <i>Nanomaterials</i> , 2020 , 10,	5.4	4
45	One-step preparation of CoFe ₂ O ₄ /FeCo/graphite nanosheets hybrid composites with tunable microwave absorption performance. <i>Ceramics International</i> , 2020 , 46, 12353-12363	5.1	28
44	Synthesis of a P/N/S-based flame retardant and its flame retardant effect on epoxy resin. <i>Fire Safety Journal</i> , 2020 , 113, 102994	3.3	15
43	Aminobenzothiazole-substituted cyclotriphosphazene derivative as reactive flame retardant for epoxy resin. <i>Reactive and Functional Polymers</i> , 2020 , 146, 104412	4.6	38
42	Intumescent fire retardant coating with recycled powder from industrial effluent optimized using response surface methodology. <i>Progress in Organic Coatings</i> , 2020 , 140, 105494	4.8	14
41	Design of controlled-morphology NiCo ₂ O ₄ with tunable and excellent microwave absorption performance. <i>Ceramics International</i> , 2020 , 46, 7833-7841	5.1	43
40	A liquid phosphorus-containing imidazole derivative as flame-retardant curing agent for epoxy resin with enhanced thermal latency, mechanical, and flame-retardant performances. <i>Journal of Hazardous Materials</i> , 2020 , 386, 121984	12.8	155
39	A bio-based ionic complex with different oxidation states of phosphorus for reducing flammability and smoke release of epoxy resins. <i>Composites Communications</i> , 2020 , 17, 104-108	6.7	92
38	Study on the plastic deformation zone of Q235 steel via hammering tight seam. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 7100-7103	5.5	
37	A Liquid Phosphaphenanthrene-Derived Imidazole for Improved Flame Retardancy and Smoke Suppression of Epoxy Resin. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 3566-3575	4.3	43
36	Thermal properties and flame retardancy of an intumescent flame-retarded epoxy system containing phosphaphenanthrene, triazine-trione and piperidine. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 139, 1099-1110	4.1	31
35	Realizing simultaneous improvements in mechanical strength, flame retardancy and smoke suppression of ABS nanocomposites from multifunctional graphene. <i>Composites Part B: Engineering</i> , 2019 , 177, 107377	10	83

34	Benzimidazolyl-substituted cyclotriphosphazene derivative as latent flame-retardant curing agent for one-component epoxy resin system with excellent comprehensive performance. <i>Composites Part B: Engineering</i> , 2019 , 177, 107440	10	72
33	Facile synthesis of reduced graphene oxide-wrapped CNFs with controllable chemical reduction degree for enhanced microwave absorption performance. <i>Journal of Colloid and Interface Science</i> , 2019 , 553, 402-408	9.3	25
32	A DOPO based reactive flame retardant constructed by multiple heteroaromatic groups and its application on epoxy resin: curing behavior, thermal degradation and flame retardancy. <i>Polymer Degradation and Stability</i> , 2019 , 167, 10-20	4.7	37
31	MOF-derived graphitized porous carbon/Fe ₃ C nanocomposites with broadband and enhanced microwave absorption performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 12012-12022 ¹⁵	2.1	15
30	3D-structured assembly of RGO and Ag nanowires for enhanced microwave absorption performance epoxy composites. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 10321-10331	3.1	7
29	Synthesis of a phosphaphenanthrene/benzimidazole-based curing agent and its application in flame-retardant epoxy resin. <i>Polymer Degradation and Stability</i> , 2019 , 163, 100-109	4.7	40
28	Preparation of flame-retardant cyanate ester with low dielectric constants and dissipation factors modified with novel phosphorus-contained Schiff base. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 135, 3153-3164	4.1	6
27	Design of hierarchical 1D ^{0D} NiCo ₂ O ₄ as high-performance microwave absorber with strong loss and wide absorbing frequency. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 16287-16297	2.7	7
26	Facile construction of one-component intrinsic flame-retardant epoxy resin system with fast curing ability using imidazole-blocked bismaleimide. <i>Composites Part B: Engineering</i> , 2019 , 177, 107380	10	32
25	Synthesis of a DOPO-containing imidazole curing agent and its application in reactive flame retarded epoxy resin. <i>Polymer Degradation and Stability</i> , 2019 , 159, 79-89	4.7	53
24	Preparation of flame-retardant cyanate ester resin combined with phosphorus-containing maleimide. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018 , 132, 1617-1628	4.1	4
23	Low content Ag-coated poly(acrylonitrile) microspheres and graphene for enhanced microwave absorption performance epoxy composites. <i>Materials Research Express</i> , 2018 , 5, 045040	1.7	10
22	Enhanced microwave absorption property of epoxy nanocomposites based on PANI@Fe ₃ O ₄ @CNFs nanoparticles with three-phase heterostructure. <i>Materials Research Express</i> , 2018 , 5, 025304	1.7	11
21	Synthesis of s-triazine based tri-imidazole derivatives and their application as thermal latent curing agents for epoxy resin. <i>Materials Letters</i> , 2018 , 216, 127-130	3.3	31
20	Synthesis of a novel reactive flame retardant containing phosphaphenanthrene and triazine-trione groups and its application in unsaturated polyester resin. <i>Materials Research Express</i> , 2018 , 5, 035306	1.7	10
19	Flame-retardant performance and mechanism of epoxy thermosets modified with a novel reactive flame retardant containing phosphorus, nitrogen, and sulfur. <i>Polymers for Advanced Technologies</i> , 2018 , 29, 497-506	3.2	48
18	Graphitized nitrogen-doped porous carbon composites derived from ZIF-8 as efficient microwave absorption materials. <i>Materials Research Express</i> , 2018 , 5, 065602	1.7	20
17	Synergistic effect between a novel triazine-based flame retardant and DOPO/HPCP on epoxy resin. <i>Polymers for Advanced Technologies</i> , 2018 , 29, 2774-2783	3.2	29

16	Synthesis of Fe@Ni nanoparticles-modified graphene/epoxy composites with enhanced microwave absorption performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 3348-3357	2.1	20
15	Study on properties of flame-retardant cyanate esters modified with DOPO and triazine compounds. <i>Polymers for Advanced Technologies</i> , 2018 , 29, 2574-2582	3.2	10
14	Enhanced microwave absorption properties of epoxy composites containing graphene decorated with core-shell Fe ₃ O ₄ @polypyrrole nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 12122-12131	2.1	23
13	Coprecipitation synthesis of hollow poly(acrylonitrile) microspheres@CoFe ₂ O ₄ with graphene as lightweight microwave absorber. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 3337-3348	2.1	7
12	Synthesis of a novel reactive flame retardant containing phosphaphenanthrene and piperidine groups and its application in epoxy resin. <i>Polymer Degradation and Stability</i> , 2017 , 146, 250-259	4.7	49
11	Microwave absorption properties of lightweight absorber based on Fe ₅₀ Ni ₅₀ -coated poly(acrylonitrile) microspheres and reduced graphene oxide composites. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 413, 81-88	2.8	27
10	Preparation and flame retardancy of DOPO-based epoxy resin containing bismaleimide. <i>High Performance Polymers</i> , 2016 , 28, 1090-1095	1.6	17
9	Synthesis of a phosphorus/nitrogen-containing compound based on maleimide and cyclotriphosphazene and its flame-retardant mechanism on epoxy resin. <i>Polymer Degradation and Stability</i> , 2016 , 126, 9-16	4.7	104
8	A phosphorus-containing phenolic derivative and its application in benzoxazine resins: Curing behavior, thermal, and flammability properties. <i>Journal of Applied Polymer Science</i> , 2016 , 133, n/a-n/a	2.9	22
7	Synergistic flame-retardant effect of expandable graphite and phosphorus-containing compounds for epoxy resin: Strong bonding of different carbon residues. <i>Polymer Degradation and Stability</i> , 2016 , 128, 89-98	4.7	97
6	Synthesis of a novel phosphorus-nitrogen type flame retardant composed of maleimide, triazine-trione, and phosphaphenanthrene and its flame retardant effect on epoxy resin. <i>Polymer Degradation and Stability</i> , 2016 , 131, 106-113	4.7	80
5	The synergistic effect of maleimide and phosphaphenanthrene groups on a reactive flame-retarded epoxy resin system. <i>Polymer Degradation and Stability</i> , 2015 , 115, 63-69	4.7	46
4	Preparation and flame retardancy of an intumescent flame-retardant epoxy resin system constructed by multiple flame-retardant compositions containing phosphorus and nitrogen heterocycle. <i>Polymer Degradation and Stability</i> , 2015 , 119, 251-259	4.7	121
3	Synthesis of a Phosphorus/Nitrogen-Containing Additive with Multifunctional Groups and Its Flame-Retardant Effect in Epoxy Resin. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 7777-7786	4.7	122
2	Preparation and flame retardancy of a compounded epoxy resin system composed of phosphorus/nitrogen-containing active compounds. <i>Polymer Degradation and Stability</i> , 2015 , 121, 398-406	4.7	52
1	Fully Biobased Surface-Functionalized Microcrystalline Cellulose via Green Self-Assembly toward Fire-Retardant, Strong, and Tough Epoxy Biocomposites. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 1700-1708	8.3	17