

# Siqi Huo

## List of Publications by Citations

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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 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> , <b>2020</b> , 386, 121984	12.8	155
68	Phosphorus-containing flame retardant epoxy thermosets: Recent advances and future perspectives. <i>Progress in Polymer Science</i> , <b>2021</b> , 114, 101366	29.6	129
67	Synthesis of a Phosphorus/Nitrogen-Containing Additive with Multifunctional Groups and Its Flame-Retardant Effect in Epoxy Resin. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 7777-7786	7.8	122
66	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> , <b>2015</b> , 119, 251-259	4.7	121
65	Polyphosphoramidate-intercalated MXene for simultaneously enhancing thermal stability, flame retardancy and mechanical properties of polylactide. <i>Chemical Engineering Journal</i> , <b>2020</b> , 397, 125336	14.7	112
64	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> , <b>2016</b> , 126, 9-16	4.7	104
63	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> , <b>2016</b> , 128, 89-98	4.7	97
62	A bio-based ionic complex with different oxidation states of phosphorus for reducing flammability and smoke release of epoxy resins. <i>Composites Communications</i> , <b>2020</b> , 17, 104-108	6.7	92
61	Realizing simultaneous improvements in mechanical strength, flame retardancy and smoke suppression of ABS nanocomposites from multifunctional graphene. <i>Composites Part B: Engineering</i> , <b>2019</b> , 177, 107377	10	83
60	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> , <b>2016</b> , 131, 106-113	4.7	80
59	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> , <b>2020</b> , 8, 6402-6412	8.3	78
58	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> , <b>2019</b> , 177, 107440	10	72
57	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> , <b>2021</b> , 207, 108601	10	69
56	A molecularly engineered bioderived polyphosphate for enhanced flame retardant, UV-blocking and mechanical properties of poly(lactic acid). <i>Chemical Engineering Journal</i> , <b>2021</b> , 411, 128493	14.7	56
55	Synthesis of a DOPO-containing imidazole curing agent and its application in reactive flame retarded epoxy resin. <i>Polymer Degradation and Stability</i> , <b>2019</b> , 159, 79-89	4.7	53
54	Preparation and flame retardancy of a compounded epoxy resin system composed of phosphorus/nitrogen-containing active compounds. <i>Polymer Degradation and Stability</i> , <b>2015</b> , 121, 398-406	4.7	52
53	Synthesis of a novel reactive flame retardant containing phosphaphenanthrene and piperidine groups and its application in epoxy resin. <i>Polymer Degradation and Stability</i> , <b>2017</b> , 146, 250-259	4.7	49

52	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> , <b>2018</b> , 29, 497-506	3.2	48
51	The synergistic effect of maleimide and phosphaphenanthrene groups on a reactive flame-retarded epoxy resin system. <i>Polymer Degradation and Stability</i> , <b>2015</b> , 115, 63-69	4.7	46
50	Design of controlled-morphology NiCo <sub>2</sub> O <sub>4</sub> with tunable and excellent microwave absorption performance. <i>Ceramics International</i> , <b>2020</b> , 46, 7833-7841	5.1	43
49	A Liquid Phosphaphenanthrene-Derived Imidazole for Improved Flame Retardancy and Smoke Suppression of Epoxy Resin. <i>ACS Applied Polymer Materials</i> , <b>2020</b> , 2, 3566-3575	4.3	43
48	Synthesis of a phosphaphenanthrene/benzimidazole-based curing agent and its application in flame-retardant epoxy resin. <i>Polymer Degradation and Stability</i> , <b>2019</b> , 163, 100-109	4.7	40
47	Aminobenzothiazole-substituted cyclotriphosphazene derivative as reactive flame retardant for epoxy resin. <i>Reactive and Functional Polymers</i> , <b>2020</b> , 146, 104412	4.6	38
46	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> , <b>2019</b> , 167, 10-20	4.7	37
45	Facile synthesis of Co-embedded porous spherical carbon composites derived from Co <sub>3</sub> O <sub>4</sub> /ZIF-8 compounds for broadband microwave absorption. <i>Composites Science and Technology</i> , <b>2020</b> , 195, 108206	8.6	35
44	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> , <b>2019</b> , 177, 107380	10	32
43	Synthesis of s-triazine based tri-imidazole derivatives and their application as thermal latent curing agents for epoxy resin. <i>Materials Letters</i> , <b>2018</b> , 216, 127-130	3.3	31
42	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> , <b>2020</b> , 139, 1099-1110	4.1	31
41	Synergistic effect between a novel triazine-based flame retardant and DOPO/HPCP on epoxy resin. <i>Polymers for Advanced Technologies</i> , <b>2018</b> , 29, 2774-2783	3.2	29
40	One-step preparation of CoFe <sub>2</sub> O <sub>4</sub> /FeCo/graphite nanosheets hybrid composites with tunable microwave absorption performance. <i>Ceramics International</i> , <b>2020</b> , 46, 12353-12363	5.1	28
39	Microwave absorption properties of lightweight absorber based on Fe <sub>50</sub> Ni <sub>50</sub> -coated poly(acrylonitrile) microspheres and reduced graphene oxide composites. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2016</b> , 413, 81-88	2.8	27
38	Flame-retardant, transparent, mechanically-strong and tough epoxy resin enabled by high-efficiency multifunctional boron-based polyphosphonamide. <i>Chemical Engineering Journal</i> , <b>2022</b> , 427, 131578	14.7	27
37	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> , <b>2019</b> , 553, 402-408	9.3	25
36	Enhanced microwave absorption properties of epoxy composites containing graphene decorated with core-shell Fe <sub>3</sub> O <sub>4</sub> @polypyrrole nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 12122-12131	2.1	23
35	A phosphorus-containing phenolic derivative and its application in benzoxazine resins: Curing behavior, thermal, and flammability properties. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133, n/a-n/a	2.9	22

- 34 Synergistic effect of polyhedral iron-cobalt alloys and graphite nanosheets with excellent microwave absorption performance. *Journal of Alloys and Compounds*, **2020**, 829, 154426 5.7 21
- 33 A P/N-containing flame retardant constructed by phosphaphenanthrene, phosphonate, and triazole and its flame retardant mechanism in reducing fire hazards of epoxy resin. *Journal of Applied Polymer Science*, **2020**, 137, 49090 2.9 21
- 32 Graphitized nitrogen-doped porous carbon composites derived from ZIF-8 as efficient microwave absorption materials. *Materials Research Express*, **2018**, 5, 065602 1.7 20
- 31 Synthesis of Fe@Ni nanoparticles-modified graphene/epoxy composites with enhanced microwave absorption performance. *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 3348-3357 2.1 20
- 30 Preparation and flame retardancy of DOPO-based epoxy resin containing bismaleimide. *High Performance Polymers*, **2016**, 28, 1090-1095 1.6 17
- 29 Fully Biobased Surface-Functionalized Microcrystalline Cellulose via Green Self-Assembly toward Fire-Retardant, Strong, and Tough Epoxy Biocomposites. *ACS Sustainable Chemistry and Engineering*, 8.3 17
- 28 MOF-derived graphitized porous carbon/Fe<sub>3</sub>C nanocomposites with broadband and enhanced microwave absorption performance. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 12012-12022<sup>15</sup> 2.1 2022
- 27 Synthesis of a P/N/S-based flame retardant and its flame retardant effect on epoxy resin. *Fire Safety Journal*, **2020**, 113, 102994 3.3 15
- 26 Intumescent fire retardant coating with recycled powder from industrial effluent optimized using response surface methodology. *Progress in Organic Coatings*, **2020**, 140, 105494 4.8 14
- 25 Mechanically Strong, Thermally Healable, and Recyclable Epoxy Vitrimers Enabled by ZnAl-Layer Double Hydroxides. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 2580-2590 8.3 14
- 24 One-step and green synthesis of a bio-based high-efficiency flame retardant for poly (lactic acid). *Polymer Degradation and Stability*, **2021**, 192, 109696 4.7 14
- 23 A hyperbranched P/N/B-containing oligomer as multifunctional flame retardant for epoxy resins. *Composites Part B: Engineering*, **2022**, 234, 109701 10 13
- 22 Enhanced microwave absorption property of epoxy nanocomposites based on PANI@Fe<sub>3</sub>O<sub>4</sub>@CNFs nanoparticles with three-phase heterostructure. *Materials Research Express*, **2018**, 5, 025304 1.7 11
- 21 Low content Ag-coated poly(acrylonitrile) microspheres and graphene for enhanced microwave absorption performance epoxy composites. *Materials Research Express*, **2018**, 5, 045040 1.7 10
- 20 Synthesis of a novel reactive flame retardant containing phosphaphenanthrene and triazine-trione groups and its application in unsaturated polyester resin. *Materials Research Express*, **2018**, 5, 035306 1.7 10
- 19 Study on properties of flame-retardant cyanate esters modified with DOPO and triazine compounds. *Polymers for Advanced Technologies*, **2018**, 29, 2574-2582 3.2 10
- 18 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
- 17 Exfoliated and functionalized boron nitride nanosheets towards improved fire resistance and water tolerance of intumescent fire retardant coating. *Journal of Applied Polymer Science*, **2021**, 138, 50177 2.9 8

16	Coprecipitation synthesis of hollow poly(acrylonitrile) microspheres@CoFe <sub>2</sub> O <sub>4</sub> with graphene as lightweight microwave absorber. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 3337-3348 <sup>2,1</sup>	7
15	3D-structured assembly of RGO and Ag nanowires for enhanced microwave absorption performance epoxy composites. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 10321-10331 <sup>3,1</sup>	7
14	Design of hierarchical 1D/2D NiCo <sub>2</sub> O <sub>4</sub> as high-performance microwave absorber with strong loss and wide absorbing frequency. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 16287-16297 <sup>1</sup>	7
13	A novel hyperbranched phosphorus-boron polymer for transparent, flame-retardant, smoke-suppressive, robust yet tough epoxy resins. <i>Composites Part B: Engineering</i> , <b>2021</b> , 227, 109395 <sup>10</sup>	7
12	Recycle of magnesium alloy scrap for improving fire resistance, thermal stability, and water tolerance of intumescent fire-retardant coatings <b>2021</b> , 18, 447-458	7
11	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> , <b>2019</b> , 135, 3153-3164	4.1 6
10	Recent advances in fire-retardant rigid polyurethane foam. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 112, 315-328	9.1 6
9	Sulfonated Block Ionomers Enable Transparent, Fire-Resistant, Tough yet Strong Polycarbonate. <i>Chemical Engineering Journal</i> , <b>2021</b> , 133264	14.7 5
8	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 &amp; Interfaces</i> , <b>2021</b> ,	9.5 5
7	Facile Synthesis of Cobalt-Doped Porous Composites with Amorphous Carbon/Zn Shell for High-Performance Microwave Absorption. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4 4
6	Preparation of flame-retardant cyanate ester resin combined with phosphorus-containing maleimide. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2018</b> , 132, 1617-1628	4.1 4
5	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> , <b>2022</b> , 336, 130372 <sup>10,3</sup>	4
4	Green and Facile Synthesis of Bio-Based, Flame-Retardant, Latent Imidazole Curing Agent for Single-Component Epoxy Resin. <i>ACS Applied Polymer Materials</i> , <b>2022</b> , 4, 3564-3574	4.3 4
3	Facile fabrication of single-component flame-retardant epoxy resin with rapid curing capacity and satisfied thermal resistance. <i>Reactive and Functional Polymers</i> , <b>2021</b> , 105103	4.6 2
2	Governing effects of melt viscosity on fire performances of polylactide and its fire-retardant systems.. <i>IScience</i> , <b>2022</b> , 25, 103950	6.1 2
1	Study on the plastic deformation zone of Q235 steel via hammering tight seam. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 7100-7103	5.5