

# Hai-Bo Zhao

## List of Publications by Year in descending order

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72  
papers

5,094  
citations

61857

43  
h-index

88477

70  
g-index

72  
all docs

72  
docs citations

72  
times ranked

2960  
citing authors

#	ARTICLE	IF	CITATIONS
1	Advanced Flame-Retardant Methods for Polymeric Materials. <i>Advanced Materials</i> , 2022, 34, e2107905.	11.1	209
2	Hierarchical Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> @ZnO Hollow Spheres with Excellent Microwave Absorption Inspired by the Visual Phenomenon of Eyeless Urchins. <i>Nano-Micro Letters</i> , 2022, 14, 76.	14.4	99
3	Construction of hetero-structured nanohybrid relying on reactive phosphazene towards flame retardation and mechanical enhancement of epoxy resins. <i>European Polymer Journal</i> , 2022, 167, 111075.	2.6	23
4	A green, durable and effective flame-retardant coating for expandable polystyrene foams. <i>Chemical Engineering Journal</i> , 2022, 440, 135807.	6.6	68
5	P-doped PANI/AgMWs nano/micro coating towards high-efficiency flame retardancy and electromagnetic interference shielding. <i>Composites Part B: Engineering</i> , 2022, 238, 109944.	5.9	30
6	Porous carbon/Fe composites from waste fabric for high-efficiency electromagnetic wave absorption. <i>Journal of Materials Science and Technology</i> , 2022, 126, 266-274.	5.6	51
7	A Phosphorus-Nitrogen-Carbon Synergistic Nanolayered Flame Retardant for Polystyrene. <i>Polymers</i> , 2022, 14, 2055.	2.0	2
8	Durable flame-retardant cotton fabrics with tannic acid complexed by various metal ions. <i>Polymer Degradation and Stability</i> , 2022, 201, 109997.	2.7	35
9	An Effective Green Porous Structural Adhesive for Thermal Insulating, Flame-Retardant, and Smoke-Suppressant Expandable Polystyrene Foam. <i>Engineering</i> , 2022, 17, 151-160.	3.2	23
10	A sponge heated by electromagnetic induction and solar energy for quick, efficient, and safe cleanup of high-viscosity crude oil spills. <i>Journal of Hazardous Materials</i> , 2022, 436, 129272.	6.5	15
11	Flame-retardant nanocoating towards high-efficiency suppression of smoke and toxic gases for polymer foam. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022, 159, 107021.	3.8	11
12	Eco-friendly and durable flame-retardant coating for cotton fabrics based on dynamic coordination of Ca <sup>2+</sup> -tannic acid. <i>Progress in Organic Coatings</i> , 2022, 170, 106964.	1.9	9
13	Growing CoNi nanoalloy@N-doped carbon nanotubes on MXene sheets for excellent microwave absorption. <i>Journal of Materials Science and Technology</i> , 2022, 130, 157-165.	5.6	39
14	Multifunctional protective aerogel with superelasticity over ~196 to 500 Å°C. <i>Nano Research</i> , 2022, 15, 7797-7805.	5.8	39
15	Fully bio-based, low fire-hazard and superelastic aerogel without hazardous cross-linkers for excellent thermal insulation and oil clean-up absorption. <i>Journal of Hazardous Materials</i> , 2021, 403, 123977.	6.5	75
16	A titanium dioxide-carbon nanotube hybrid to simultaneously achieve the mechanical enhancement of natural rubber and its stability under extreme frictional conditions. <i>Materials Advances</i> , 2021, 2, 2408-2418.	2.6	4
17	Multifunctional Photothermal Conversion Nanocoatings Toward Highly Efficient and Safe High-Viscosity Oil Cleanup Absorption. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 11948-11957.	4.0	46
18	Eco-friendly synergistic cross-linking flame-retardant strategy with smoke and melt-dripping suppression for condensation polymers. <i>Composites Part B: Engineering</i> , 2021, 211, 108664.	5.9	29

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19	Targeted Copolymerization in Amorphous Regions for Constructing Crystallizable Functionalized Copolymers. <i>Macromolecules</i> , 2021, 54, 4412-4422.	2.2	7
20	Construction of durable eco-friendly biomass-based flame-retardant coating for cotton fabrics. <i>Chemical Engineering Journal</i> , 2021, 410, 128361.	6.6	142
21	High strength, low flammability, and smoke suppression for epoxy thermoset enabled by a low-loading phosphorus-nitrogen-silicon compound. <i>Composites Part B: Engineering</i> , 2021, 211, 108640.	5.9	80
22	Ultralow-density carbon foam composites with bean-like Co-embedded carbon nanotube whiskers towards high-performance microwave absorption. <i>Journal of Alloys and Compounds</i> , 2021, 863, 158090.	2.8	30
23	Multifunctional Flame-Retardant Melamine-Based Hybrid Foam for Infrared Stealth, Thermal Insulation, and Electromagnetic Interference Shielding. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 26505-26514.	4.0	94
24	Temperature-Responsive Intumescent Chemistry toward Fire Resistance and Super Thermal Insulation under Extremely Harsh Conditions. <i>Chemistry of Materials</i> , 2021, 33, 6018-6028.	3.2	51
25	Novel polyamide 6 composites based on Schiff-base containing phosphonate oligomer: High flame retardancy, great processability and mechanical property. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 146, 106423.	3.8	45
26	Flame-retarded thermoplastic polyurethane elastomer: From organic materials to nanocomposites and new prospects. <i>Chemical Engineering Journal</i> , 2021, 417, 129314.	6.6	80
27	Growing MoO <sub>3</sub> -doped WO <sub>3</sub> nanoflakes on rGO aerogel sheets towards superior microwave absorption. <i>Carbon</i> , 2021, 183, 205-215.	5.4	61
28	Fully biomass-based aerogels with ultrahigh mechanical modulus, enhanced flame retardancy, and great thermal insulation applications. <i>Composites Part B: Engineering</i> , 2021, 225, 109309.	5.9	75
29	Highly efficient, transparent, and environment-friendly flame-retardant coating for cotton fabric. <i>Chemical Engineering Journal</i> , 2021, 424, 130556.	6.6	117
30	Ultralight Biomass Aerogels with Multifunctionality and Superelasticity Under Extreme Conditions. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 59231-59242.	4.0	32
31	Porous carbon materials for microwave absorption. <i>Materials Advances</i> , 2020, 1, 2631-2645.	2.6	60
32	An ultralow-temperature superelastic polymer aerogel with high strength as a great thermal insulator under extreme conditions. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18698-18706.	5.2	49
33	Porous CoNi nanoalloy@N-doped carbon nanotube composite clusters with ultra-strong microwave absorption at a low filler loading. <i>Journal of Materials Chemistry C</i> , 2020, 8, 13712-13722.	2.7	58
34	Banana Leaflike C-Doped MoS <sub>2</sub> Aerogels toward Excellent Microwave Absorption Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 26301-26312.	4.0	100
35	Double-cross-linked aerogels towards ultrahigh mechanical properties and thermal insulation at extreme environment. <i>Chemical Engineering Journal</i> , 2020, 399, 125698.	6.6	68
36	A facile and efficient flame-retardant and smoke-suppressant resin coating for expanded polystyrene foams. <i>Composites Part B: Engineering</i> , 2020, 185, 107797.	5.9	70

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37	Mechanically strong and flame-retardant epoxy resins with anti-corrosion performance. <i>Composites Part B: Engineering</i> , 2020, 193, 108019.	5.9	127
38	Enhanced Photothermal Effect in Ultralow-Density Carbon Aerogels with Microporous Structures for Facile Optical Ignition Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 7250-7260.	4.0	14
39	Ultralight CoNi/rGO aerogels toward excellent microwave absorption at ultrathin thickness. <i>Journal of Materials Chemistry C</i> , 2019, 7, 441-448.	2.7	238
40	3D printable robust shape memory PET copolyesters with fire safety $\pi$ -stacking and synergistic crosslinking. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17037-17045.	5.2	69
41	Ultrahigh-Temperature Insulating and Fire-Resistant Aerogels from Cationic Amylopectin and Clay via a Facile Route. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 11582-11592.	3.2	62
42	On controlling aerogel microstructure by freeze casting. <i>Composites Part B: Engineering</i> , 2019, 173, 107036.	5.9	56
43	Hierarchically porous SiO <sub>2</sub> /polyurethane foam composites towards excellent thermal insulating, flame-retardant and smoke-suppressant performances. <i>Journal of Hazardous Materials</i> , 2019, 375, 61-69.	6.5	103
44	Single component phosphamide-based intumescent flame retardant with potential reactivity towards low flammability and smoke epoxy resins. <i>Journal of Hazardous Materials</i> , 2019, 371, 529-539.	6.5	166
45	Polyurethane foams with functionalized graphene towards high fire-resistance, low smoke release, superior thermal insulation. <i>Chemical Engineering Journal</i> , 2019, 361, 1245-1254.	6.6	83
46	Metal-phenolic networks: A biobased synergist for EVA/APP composites toward enhanced thermal stability and flame retardancy. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47243.	1.3	10
47	Self-cross-linked melamine-formaldehyde-pectin aerogel with excellent water resistance and flame retardancy. <i>Carbohydrate Polymers</i> , 2019, 206, 609-615.	5.1	36
48	New application for aromatic Schiff base: High efficient flame-retardant and anti-dripping action for polyesters. <i>Chemical Engineering Journal</i> , 2018, 336, 622-632.	6.6	228
49	Magnetic and Conductive Ni/Carbon Aerogels toward High-Performance Microwave Absorption. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 202-211.	1.8	50
50	Biomass-derived Co@crystalline carbon@carbon aerogel composite with enhanced thermal stability and strong microwave absorption performance. <i>Journal of Alloys and Compounds</i> , 2018, 736, 71-79.	2.8	88
51	Inherently flame-retardant rigid polyurethane foams with excellent thermal insulation and mechanical properties. <i>Polymer</i> , 2018, 153, 616-625.	1.8	113
52	A reactive phosphorus-containing polyol incorporated into flexible polyurethane foam: Self-extinguishing behavior and mechanism. <i>Polymer Degradation and Stability</i> , 2018, 153, 192-200.	2.7	59
53	Nanoporous Ni with High Surface Area for Potential Hydrogen Storage Application. <i>Nanomaterials</i> , 2018, 8, 394.	1.9	14
54	Flame-retardant and smoke-suppressant flexible polyurethane foams based on reactive phosphorus-containing polyol and expandable graphite. <i>Journal of Hazardous Materials</i> , 2018, 360, 651-660.	6.5	139

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55	Freestanding monolithic Ni aerogel with large surface areas from cellulose aerogel templates. <i>Materials Letters</i> , 2017, 196, 296-299.	1.3	11
56	Green Approach to Improving the Strength and Flame Retardancy of Poly(vinyl alcohol)/Clay Aerogels: Incorporating Biobased Gelatin. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 42258-42265.	4.0	104
57	Design and Synthesis of PET-Based Copolyesters with Flame-Retardant and Antidripping Performance. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1700451.	2.0	102
58	Thermally Insulating and Flame-Retardant Polyaniline/Pectin Aerogels. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 7012-7019.	3.2	119
59	Biomass-Based Mechanically Strong and Electrically Conductive Polymer Aerogels and Their Application for Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 9917-9924.	4.0	76
60	Highly Efficient Flame Retardant Polyurethane Foam with Alginate/Clay Aerogel Coating. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 32557-32564.	4.0	157
61	Poly(vinyl alcohol)/clay aerogel composites with enhanced flame retardancy. <i>RSC Advances</i> , 2016, 6, 109809-109814.	1.7	18
62	Excellent Electromagnetic Absorption Capability of Ni/Carbon Based Conductive and Magnetic Foams Synthesized via a Green One Pot Route. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 1468-1477.	4.0	241
63	A solution-phase synthesis method to prepare Pd-doped carbon aerogels for hydrogen storage. <i>RSC Advances</i> , 2015, 5, 20966-20971.	1.7	30
64	Block self-cross-linkable poly(ethylene terephthalate) copolyester via solid-state polymerization: Crystallization, cross-linking, and flame retardance. <i>Polymer</i> , 2015, 70, 68-76.	1.8	27
65	Novel crosslinkable epoxy resins containing phenylacetylene and azobenzene groups: From thermal crosslinking to flame retardance. <i>Polymer Degradation and Stability</i> , 2015, 122, 66-76.	2.7	42
66	Effects of Gamma Irradiation on Clay Membrane with Poly(vinyl alcohol) for Fire Retardancy. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 10740-10746.	1.8	8
67	A flame-retardant-free and thermo-cross-linkable copolyester: Flame-retardant and anti-dripping mode of action. <i>Polymer</i> , 2014, 55, 2394-2403.	1.8	124
68	Multi-stimuli sensitive supramolecular hydrogel formed by host-guest interaction between PNIPAM-Azo and cyclodextrin dimers. <i>RSC Advances</i> , 2014, 4, 4955.	1.7	66
69	A novel phosphorus-containing poly(1,4-cyclohexylenedimethylene terephthalate) copolyester: Synthesis, thermal stability, flammability and pyrolysis behavior. <i>Polymer Degradation and Stability</i> , 2014, 108, 12-22.	2.7	14
70	A novel flame-retardant-free copolyester: cross-linking towards self extinguishing and non-dripping. <i>Journal of Materials Chemistry</i> , 2012, 22, 19849.	6.7	78
71	Novel Flame-Retardant and Antidripping Branched Polyesters Prepared via Phosphorus-Containing Ionic Monomer as End-Capping Agent. <i>Industrial &amp; Engineering Chemistry Research</i> , 2010, 49, 4190-4196.	1.8	42
72	Metal compound-enhanced flame retardancy of intumescent epoxy resins containing ammonium polyphosphate. <i>Polymer Degradation and Stability</i> , 2009, 94, 625-631.	2.7	154