

Zhi Li

List of Publications by Year in descending order

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52
papers

2,754
citations

172386

29
h-index

175177

52
g-index

53
all docs

53
docs citations

53
times ranked

2567
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnesium hydroxide micro-whiskers as super-reinforcer to improve fire retardancy and mechanical property of epoxy resin. <i>Polymer Composites</i> , 2022, 43, 1996-2009.	2.3	6
2	Flame-retardant strategy and mechanism of fiber reinforced polymeric composite: A review. <i>Composites Part B: Engineering</i> , 2022, 233, 109663.	5.9	78
3	Toward a New Generation of Fire-Safe Energy Storage Devices: Recent Progress on Fire-Retardant Materials and Strategies for Energy Storage Devices. <i>Small Methods</i> , 2022, 6, e2101428.	4.6	12
4	Homologous Alkali Metal Copper Rare-Earth Chalcogenides $A_{2-x}Cu_2Ln_4Q_{7+x}$ ($x = 1, 2, 3$). <i>Chemistry of Materials</i> , 2022, 34, 3409-3422.	3.2	6
5	Hidden Local Symmetry Breaking in Silver Diamondoid Compounds is Root Cause of Ultralow Thermal Conductivity. <i>Advanced Materials</i> , 2022, 34, e2202255.	11.1	20
6	Biomass-based coating from chitosan for cotton fabric with excellent flame retardancy and improved durability. <i>Cellulose</i> , 2022, 29, 5289-5303.	2.4	23
7	High Thermoelectric Performance in Chalcopyrite $Cu_xAg_xGaTe_2$ - $ZnTe$: Nontrivial Band Structure and Dynamic Doping Effect. <i>Journal of the American Chemical Society</i> , 2022, 144, 9113-9125.	6.6	29
8	Spatial inhomogeneity, interfaces and complex vitrification kinetics in a network forming nanocomposite. <i>Soft Matter</i> , 2021, 17, 2775-2790.	1.2	20
9	Phosphorous-phosphorous synergistic effect on flame retardancy, mechanically reinforce and hydrolytic resistance for PC/ABS blends. <i>Polymer Degradation and Stability</i> , 2021, 183, 109442.	2.7	7
10	Construction of a novel three-in-one biomass based intumescent fire retardant through phosphorus functionalized metal-organic framework and β -cyclodextrin hybrids in achieving fire safe epoxy. <i>Composites Communications</i> , 2021, 23, 100594.	3.3	31
11	Calorimetric and Dielectric Investigations of Epoxy-Based Nanocomposites with Halloysite Nanotubes as Nanofillers. <i>Polymers</i> , 2021, 13, 1634.	2.0	15
12	Determination of Solubility of Chromium Oxide in the $CaO-SiO_2-Cr_2O_3-Slag$ System at 1873 K under Moderately Reducing Conditions. <i>ISIJ International</i> , 2021, 61, 2340-2344.	0.6	6
13	Bioinspired growth of iron derivatives on mesoporous silica: effect on thermal degradation and fire behavior of polystyrene. <i>Nanotechnology</i> , 2020, 31, 065601.	1.3	3
14	Green Synthesis of Biomass Phytic Acid-Functionalized UiO-66-NH ₂ Hierarchical Hybrids toward Fire Safety of Epoxy Resin. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 994-1003.	3.2	106
15	Constructing multifunctional nanofiller with reactive interface in PLA/CB-g-DOPO composites for simultaneously improving flame retardancy, electrical conductivity and mechanical properties. <i>Composites Science and Technology</i> , 2020, 188, 107988.	3.8	94
16	Polydopamine-assisted strategies for preparation of fire-safe polymeric materials: A review. <i>European Polymer Journal</i> , 2020, 138, 109973.	2.6	30
17	Recent Progress on Metal-Organic Framework and Its Derivatives as Novel Fire Retardants to Polymeric Materials. <i>Nano-Micro Letters</i> , 2020, 12, 173.	14.4	47
18	Hierarchically tailored hybrids via interfacial-engineering of self-assembled UiO-66 and prussian blue analogue: Novel strategy to impart epoxy high-efficient fire retardancy and smoke suppression. <i>Chemical Engineering Journal</i> , 2020, 400, 125942.	6.6	49

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19	Size tailored bimetallic metal-organic framework (MOF) on graphene oxide with sandwich-like structure as functional nano-hybrids for improving fire safety of epoxy. <i>Composites Part B: Engineering</i> , 2020, 188, 107881.	5.9	77
20	Simultaneously improving flame retardancy and dynamic mechanical properties of epoxy resin nanocomposites through synergistic effect of zirconium phenylphosphate and POSS. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 135, 2117-2124.	2.0	28
21	Bimetallic metal-organic frameworks and graphene oxide nano-hybrids for enhanced fire retardant epoxy composites: A novel carbonization mechanism. <i>Carbon</i> , 2019, 153, 407-416.	5.4	91
22	Influence of the Characteristics of Expandable Graphite on the Morphology, Thermal Properties, Fire Behaviour and Compression Performance of a Rigid Polyurethane Foam. <i>Polymers</i> , 2019, 11, 168.	2.0	50
23	Selectively localized nanosilica particles at the phase interface of PS/PA6/nanosilica composites with co-continuous structure via reactive extrusion. <i>Composites Science and Technology</i> , 2019, 172, 125-133.	3.8	21
24	Dielectric and flash DSC investigations on an epoxy based nanocomposite system with MgAl layered double hydroxide as nanofiller. <i>Thermochimica Acta</i> , 2019, 677, 151-161.	1.2	17
25	Bio-based layered double hydroxide nanocarrier toward fire-retardant epoxy resin with efficiently improved smoke suppression. <i>Chemical Engineering Journal</i> , 2019, 378, 122046.	6.6	54
26	Construction of 3D boron nitride nanosheets/silver networks in epoxy-based composites with high thermal conductivity via in-situ sintering of silver nanoparticles. <i>Chemical Engineering Journal</i> , 2019, 369, 1150-1160.	6.6	172
27	Ultrafine nickel nanocatalyst-engineering of an organic layered double hydroxide towards a super-efficient fire-safe epoxy resin via interfacial catalysis. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8488-8498.	5.2	101
28	Effect of phytic acid-modified layered double hydroxide on flammability and mechanical properties of intumescent flame retardant polypropylene system. <i>Fire and Materials</i> , 2018, 42, 213-220.	0.9	49
29	Covalent assembly of MCM-41 nanospheres on graphene oxide for improving fire retardancy and mechanical property of epoxy resin. <i>Composites Part B: Engineering</i> , 2018, 138, 101-112.	5.9	79
30	Insightful investigation of smoke suppression behavior and mechanism of polystyrene with ferrocene: An important role of intermediate smoke. <i>Fire and Materials</i> , 2018, 42, 286-295.	0.9	17
31	Bio-inspired engineering of boron nitride with iron-derived nanocatalyst toward enhanced fire retardancy of epoxy resin. <i>Polymer Degradation and Stability</i> , 2018, 157, 119-130.	2.7	47
32	A Geometry Effect of Carbon Nanomaterials on Flame Retardancy and Mechanical Properties of Ethylene-Vinyl Acetate/Magnesium Hydroxide Composites. <i>Polymers</i> , 2018, 10, 1028.	2.0	15
33	Interfacial engineering of layered double hydroxide toward epoxy resin with improved fire safety and mechanical property. <i>Composites Part B: Engineering</i> , 2018, 152, 336-346.	5.9	58
34	Polydopamine induced natural fiber surface functionalization: a way towards flame retardancy of flax/poly(lactic acid) biocomposites. <i>Composites Part B: Engineering</i> , 2018, 154, 56-63.	5.9	108
35	A novel oligomer containing DOPO and ferrocene groups: Synthesis, characterization, and its application in fire retardant epoxy resin. <i>Polymer Degradation and Stability</i> , 2018, 156, 111-124.	2.7	63
36	High-performance carrageenan film based on carrageenan intercalated layered double hydroxide with enhanced properties: Fire safety, thermal stability and barrier effect. <i>Composites Communications</i> , 2018, 9, 1-5.	3.3	8

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37	Natural halloysite nanotube based functionalized nanohybrid assembled via phosphorus-containing slow release method: A highly efficient way to impart flame retardancy to polylactide. <i>European Polymer Journal</i> , 2017, 93, 458-470.	2.6	51
38	Nano-architected mesoporous silica decorated with ultrafine Co ₃ O ₄ toward an efficient way to delaying ignition and improving fire retardancy of polystyrene. <i>Materials and Design</i> , 2017, 129, 69-81.	3.3	30
39	Functional organoclay with high thermal stability and its synergistic effect on intumescent flame retardant polypropylene. <i>Applied Clay Science</i> , 2017, 143, 192-198.	2.6	30
40	Functionalized allylamine polyphosphate as a novel multifunctional highly efficient fire retardant for polypropylene. <i>Polymer Chemistry</i> , 2017, 8, 6309-6318.	1.9	30
41	A facile approach towards large-scale synthesis of hierarchically nanoporous SnO ₂ @Fe ₂ O ₃ 0D/1D hybrid and its effect on flammability, thermal stability and mechanical property of flexible poly(vinyl) Tj ETQq1 1 0.784314 rg36 /Overlo	1.0	37
42	Bioinspired polydopamine-induced assembly of ultrafine Fe(OH) ₃ nanoparticles on halloysite toward highly efficient fire retardancy of epoxy resin via an action of interfacial catalysis. <i>Polymer Chemistry</i> , 2017, 8, 3926-3936.	1.9	69
43	Effect of N,N'-diallyl-phenylphosphoricdiamide on ease of ignition, thermal decomposition behavior and mechanical properties of poly (lactic acid). <i>Polymer Degradation and Stability</i> , 2016, 127, 2-10.	2.7	33
44	Preparation, fire behavior and thermal stability of a novel flame retardant polypropylene system. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 125, 321-329.	2.0	24
45	A novel biobased epoxy resin with high mechanical stiffness and low flammability: synthesis, characterization and properties. <i>Journal of Materials Chemistry A</i> , 2015, 3, 21907-21921.	5.2	209
46	Highly-effective Flame Retardancy of Poly(lactide) Composite Achieved Through Incorporation of Amorphous Nickel Phosphate Microparticle. <i>Polymer-Plastics Technology and Engineering</i> , 2014, 53, 1533-1541.	1.9	6
47	Synthesis of a hyperbranched poly(phosphamide ester) oligomer and its high-effective flame retardancy and accelerated nucleation effect in polylactide composites. <i>Polymer Degradation and Stability</i> , 2014, 110, 104-112.	2.7	50
48	Preparation of a novel PEG composite with halogen-free flame retardant supporting matrix for thermal energy storage application. <i>Applied Energy</i> , 2013, 106, 321-327.	5.1	86
49	Preparation of shape-stabilized co-crystallized poly (ethylene glycol) composites as thermal energy storage materials. <i>Energy Conversion and Management</i> , 2013, 76, 101-108.	4.4	16
50	Aluminated mesoporous silica as novel high-effective flame retardant in polylactide. <i>Composites Science and Technology</i> , 2013, 82, 1-7.	3.8	63
51	The Assimilation Mechanism of Mn-Al Compacts in Liquid Mg. <i>Materials Transactions</i> , 2010, 51, 1371-1380.	0.4	4
52	Two-Level Antibacterial Coating with Both Release-Killing and Contact-Killing Capabilities. <i>Langmuir</i> , 2006, 22, 9820-9823.	1.6	380