

Zhiwei Li

List of Publications by Year in descending order

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46
papers

1,507
citations

331538

21
h-index

315616

38
g-index

46
all docs

46
docs citations

46
times ranked

1458
citing authors

#	ARTICLE	IF	CITATIONS
1	Flame retardant coatings prepared using layer by layer assembly: A review. <i>Chemical Engineering Journal</i> , 2018, 334, 108-122.	6.6	281
2	Graphene-based flame retardants: a review. <i>Journal of Materials Science</i> , 2016, 51, 8271-8295.	1.7	169
3	Zinc ferrite nanoparticle decorated boron nitride nanosheet: Preparation, magnetic field arrangement, and flame retardancy. <i>Chemical Engineering Journal</i> , 2019, 356, 680-692.	6.6	90
4	An overview of fire retardant treatments for synthetic textiles: From traditional approaches to recent applications. <i>European Polymer Journal</i> , 2020, 137, 109911.	2.6	76
5	Flame retardant treatments for polypropylene: Strategies and recent advances. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 145, 106382.	3.8	76
6	Layer-by-layer-assembled flame-retardant coatings from polydopamine-induced in situ functionalized and reduced graphene oxide. <i>Journal of Materials Science</i> , 2019, 54, 13848-13862.	1.7	45
7	Preparation of lanthanum trifluoride nanoparticles surface-capped by tributyl phosphate and evaluation of their tribological properties as lubricant additive in liquid paraffin. <i>Applied Surface Science</i> , 2014, 292, 971-977.	3.1	44
8	Preparation of zinc hydroxystannate-decorated graphene oxide nanohybrids and their synergistic reinforcement on reducing fire hazards of flexible poly (vinyl chloride). <i>Nanoscale Research Letters</i> , 2016, 11, 192.	3.1	44
9	Preparation and tribological properties of fluorosilane surface-modified lanthanum trifluoride nanoparticles as additive of fluoro silicone oil. <i>Applied Surface Science</i> , 2014, 316, 515-523.	3.1	40
10	Preparation of surface-modified lanthanum fluoride-graphene oxide nanohybrids and evaluation of their tribological properties as lubricant additive in liquid paraffin. <i>Applied Surface Science</i> , 2016, 388, 497-502.	3.1	40
11	Preparation of In ₂ S ₃ nanoparticle by ultrasonic dispersion and its tribology property. <i>Ultrasonics Sonochemistry</i> , 2009, 16, 221-224.	3.8	38
12	Polyvinyl alcohol composite aerogel with remarkable flame retardancy, chemical durability and self-cleaning property. <i>Composites Communications</i> , 2019, 15, 96-102.	3.3	38
13	A novel route to prepare and characterize Sn-Bi nanoparticles. <i>Journal of Alloys and Compounds</i> , 2005, 394, 282-285.	2.8	36
14	Preparation and Tribological Properties of Lanthanum Trifluoride Nanoparticles-Decorated Graphene Oxide Nanosheets. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 4773-4780.	1.8	36
15	Graphene oxide functionalized biomolecules for improved flame retardancy of Polyamide 66 fabrics with intact physical properties. <i>International Journal of Biological Macromolecules</i> , 2020, 156, 362-371.	3.6	36
16	A simple and rapid method for preparing indium nanoparticles from bulk indium via ultrasound irradiation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 407, 7-10.	2.6	33
17	A facile way for preparing tin nanoparticles from bulk tin via ultrasound dispersion. <i>Ultrasonics Sonochemistry</i> , 2007, 14, 89-92.	3.8	33
18	Bismuth oxychloride nanosheets for improvement of flexible poly (vinyl chloride) flame retardancy. <i>Journal of Materials Science</i> , 2020, 55, 631-643.	1.7	26

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19	Mesoporous Zinc Ferrite Microsphere-Decorated Graphene Oxide as a Flame Retardant Additive: Preparation, Characterization, and Flame Retardance Evaluation. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 7720-7729.	1.8	25
20	Titanate Nanotubes Decorated Graphene Oxide Nanocomposites: Preparation, Flame Retardancy, and Photodegradation. <i>Nanoscale Research Letters</i> , 2017, 12, 441.	3.1	24
21	Construction and flame-retardant performance of layer-by-layer assembled hexagonal boron nitride coatings on flexible polyurethane foams. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47839.	1.3	23
22	Preparation of zinc hydroxystannate-titanate nanotube flame retardant and evaluation its smoke suppression efficiency for flexible polyvinyl chloride matrix. <i>Materials Letters</i> , 2017, 204, 133-137.	1.3	22
23	Preparation of Cobalt Ferrite Nanoparticle-Decorated Boron Nitride Nanosheet Flame Retardant and Its Flame Retardancy in Epoxy Resin. <i>Nano</i> , 2019, 14, 1950063.	0.5	22
24	A simple and universal strategy for construction and application of silica-based flame-retardant nanostructure. <i>Composites Part B: Engineering</i> , 2022, 238, 109887.	5.9	21
25	Side-by-Side In(OH) ₃ and In ₂ O ₃ Nanotubes: Synthesis and Optical Properties. <i>Nanoscale Research Letters</i> , 2010, 5, 383-388.	3.1	19
26	Biomass Chitosan-Induced Fe ₃ O ₄ Functionalized Halloysite Nanotube Composites: Preparation, Characterization and Flame-Retardant Performance. <i>Nano</i> , 2019, 14, 1950154.	0.5	19
27	Boron nitride nanosheets decorated by bismuth ferrite particles: preparation, characterization, and effect on flame-retardant performance of epoxy resin. <i>Materials Research Express</i> , 2018, 5, 095019.	0.8	17
28	Ultrasound-assisted bottom-up synthesis of Ni-graphene hybrid composites and their excellent rhodamine B removal properties. <i>Journal of Environmental Management</i> , 2020, 255, 109834.	3.8	15
29	Preparation of novel biomass humate flame retardants and their flame retardancy in epoxy resin. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49601.	1.3	14
30	Improvement in fire-retardant properties of polypropylene filled with intumescent flame retardants, using flower-like nickel cobaltate as synergist. <i>Journal of Materials Science</i> , 2021, 56, 2702-2716.	1.7	14
31	Modifying Epoxy Resins to Resist Both Fire and Water. <i>Langmuir</i> , 2019, 35, 14332-14338.	1.6	12
32	Effect of core-shell zinc hydroxystannate nanoparticle-organic macromolecule composite flame retardant prepared by masterbatch method on flame-retardant behavior and mechanical properties of flexible poly(vinyl chloride). <i>Polymer Engineering and Science</i> , 2014, 54, 1983-1989.	1.5	10
33	Ultralow temperature synthesis and improved adsorption performance of graphene oxide nanosheets. <i>Applied Surface Science</i> , 2015, 324, 363-368.	3.1	10
34	Flame Retardancy and Mechanical Properties of a Novel Zinc Hydroxystannate/Epoxy Resin Nanocomposite. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 8856-8863.	0.9	9
35	Nonfluoride-modified halloysite nanotube-based hybrid: potential for acquiring super-hydrophobicity and improving flame retardancy of epoxy resin. <i>Journal of Nanostructure in Chemistry</i> , 2021, 11, 353-366.	5.3	9
36	Preparation of mesoporous zinc ferrite flame retardant with different scales and its performance in epoxy resin. <i>Polymer Testing</i> , 2022, 110, 107549.	2.3	9

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37	Fabrication of Bismuth Oxychloride Nanosheets Decorated with Chitosan and Phytic Acid for Improvement of Flexible Poly(vinyl chloride) Flame Retardancy. <i>Fibers and Polymers</i> , 2021, 22, 2656-2663.	1.1	8
38	Enhancing flame retardance of epoxy resin by incorporation into ammonium polyphosphate/boron nitride nanosheets/zinc ferrite three-dimensional porous aerogel via vacuum-assisted infiltration. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48609.	1.3	7
39	Superior flame retardancy and smoke suppression of poly (vinyl chloride) composites with iron/tin-doped bismuth oxychloride. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	1.3	5
40	Self-assembly of carboxyl functionalized polystyrene nanospheres into close-packed monolayers via chemical adsorption. <i>Chinese Journal of Chemistry</i> , 2004, 22, 1133-1137.	2.6	4
41	Reutilization of melamine-formaldehyde foam wastes: Removing Sn ²⁺ in simulated tin-containing wastewater to transform a fire hazard suppressant of flexible poly(vinyl chloride). <i>Journal of Applied Polymer Science</i> , 2022, 139, 51724.	1.3	4
42	Flame Retardant Treatments of Nylon Textiles: A Shift towards Eco-Friendly Approaches. , 0, , .		3
43	Facile One-Pot Bottom-Up Synthesis of Graphene and Ni/Graphene Nanostructures and Their Excellent Adsorption Performances. <i>Nano</i> , 2018, 13, 1850021.	0.5	1
44	Controllable synthesis and characterization of porous Zn/Cu composite hollow microspheres via a template-free route. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	0
45	A universal route for synthesizing nearly monodisperse MxOy (M=Zn, In, Co, Fe) nanocrystals. <i>Materials Science in Semiconductor Processing</i> , 2014, 24, 132-137.	1.9	0
46	Platinum-doped titanate nanotubes/reduced graphene oxide: photocatalytic activity and flame retardancy. <i>Materials Research Express</i> , 2018, 5, 015018.	0.8	0