Xin Wang

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/421919/xin-wang-publications-by-year.pdf

Version: 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

101	7,712	39	87
papers	citations	h-index	g-index
103	9,429	8.5	6.59
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
101	A Furan-based Phosphaphenanthrene-containing Derivative as a Highly Efficient Flame-retardant Agent for Epoxy Thermosets without Deteriorating Thermomechanical Performances. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2022 , 40, 233-240	3.5	1
100	Eco-friendly thermally insulating cellulose aerogels with exceptional flame retardancy, mechanical property and thermal stability. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022 , 131, 104159	5.3	1
99	Fabrication of zirconium phenylphosphonate/epoxy composites with simultaneously enhanced mechanical strength, anti-flammability and smoke suppression. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022 , 155, 106837	8.4	O
98	Integration of black phosphorene and MXene to improve fire safety and mechanical properties of waterborne polyurethane. <i>Applied Surface Science</i> , 2022 , 581, 152386	6.7	3
97	Hierarchical core-shell SiO@COFs@metallic oxide architecture: An efficient flame retardant and toxic smoke suppression for polystyrene. <i>Journal of Colloid and Interface Science</i> , 2022 , 605, 241-252	9.3	5
96	Cicada wing-inspired solar transmittance enhancement and hydrophobicity design for graphene-based solar steam generation: A novel gas phase deposition approach. <i>Applied Energy</i> , 2022 , 320, 119322	10.7	1
95	A phosphaphenanthrene-containing vanillin derivative as co-curing agent for flame-retardant and antibacterial epoxy thermoset. <i>Polymer</i> , 2021 , 217, 123460	3.9	8
94	Phosphorus-Free Vanillin-Derived Intrinsically Flame-Retardant Epoxy Thermoset with Extremely Low Heat Release Rate and Smoke Emission. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 5268-5	5 <u>2</u> 77	21
93	Facile synthesis of a novel zinc-triazole complex for simultaneous improvement in fire safety and mechanical properties of epoxy resins. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021 , 143, 106284	8.4	16
92	Organic-inorganic hybridization of isoreticular metal-organic framework-3 with melamine for efficiently reducing the fire risk of epoxy resin. <i>Composites Part B: Engineering</i> , 2021 , 211, 108606	10	13
91	Intrinsically flame retardant cardanol-based epoxy monomer for high-performance thermosets. <i>Polymer Degradation and Stability</i> , 2021 , 186, 109519	4.7	12
90	Recent Progress in Two-dimensional Nanomaterials Following Graphene for Improving Fire Safety of Polymer (Nano)composites. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2021 , 39, 935-956	3.5	9
89	A desoxyanisoin- and furfurylamine-derived high-performance benzoxazine thermoset with high glass transition temperature and excellent anti-flammability. <i>Polymer Degradation and Stability</i> , 2021 , 189, 109604	4.7	3
88	Thermogravimetric analysis and kinetics characteristics of typical grains. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 143, 647-659	4.1	6
87	The effect of triphenyl phosphate inhibition on flame propagation over cast PMMA slabs. <i>Proceedings of the Combustion Institute</i> , 2021 , 38, 4635-4644	5.9	2
86	Self-floating black phosphorous nanosheets as a carry-on solar vapor generator. <i>Journal of Colloid and Interface Science</i> , 2021 , 582, 496-505	9.3	13
85	A high performance fully bio-based epoxy thermoset from a syringaldehyde-derived epoxy monomer cured by furan-derived amine. <i>Green Chemistry</i> , 2021 , 23, 501-510	10	21

(2020-2021)

Heterolayered Boron Nitride/Polyaniline/Molybdenum Disulfide Nanosheets for Flame-Retardant Epoxy Resins. <i>ACS Applied Nano Materials</i> , 2021 , 4, 8162-8172	5.6	3
Phosphorus-Free Ellagic Acid-Derived Epoxy Thermosets with Intrinsic Antiflammability and High Glass Transition Temperature. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 10799-10808	8.3	7
Intrinsically anti-flammable and self-toughened phosphorylated cardanol-derived novolac epoxy thermosets. <i>Industrial Crops and Products</i> , 2021 , 166, 113496	5.9	7
Highly flame retardant, low thermally conducting, and hydrophobic phytic acid-guanazole-cellulose nanofiber composite foams. <i>Cellulose</i> , 2021 , 28, 9769-9783	5.5	1
Combination of cardanol-derived flame retardant with SiO2@MOF particles for simultaneously enhancing the toughness, anti-flammability and smoke suppression of epoxy thermosets. <i>Composites Communications</i> , 2021 , 27, 100904	6.7	3
Cardanol as a versatile platform for fabrication of bio-based flame-retardant epoxy thermosets as DGEBA substitutes. <i>Chemical Engineering Journal</i> , 2021 , 421, 129738	14.7	15
Phosphorylated cardanol-formaldehyde oligomers as flame-retardant and toughening agents for epoxy thermosets. <i>Chemical Engineering Journal</i> , 2021 , 423, 130192	14.7	12
Fully bio-based epoxy resin derived from vanillin with flame retardancy and degradability. <i>Reactive and Functional Polymers</i> , 2021 , 168, 105034	4.6	4
Synthesis of star-shaped allyl phosphazene small molecules for enhancing fire safety and toughness of high performance BMI resin. <i>Chemical Engineering Journal</i> , 2021 , 425, 130655	14.7	15
Self-assembly of phosphonate-metal complex for superhydrophobic and durable flame-retardant polyesterEotton fabrics. <i>Cellulose</i> , 2020 , 27, 6011-6025	5.5	15
Construction of durable flame-retardant and robust superhydrophobic coatings on cotton fabrics for water-oil separation application. <i>Chemical Engineering Journal</i> , 2020 , 398, 125661	14.7	77
A fully bio-based coating made from alginate, chitosan and hydroxyapatite for protecting flexible polyurethane foam from fire. <i>Carbohydrate Polymers</i> , 2020 , 246, 116641	10.3	25
Lightweight, hydrophobic and recyclable carbon foam derived from ligninflesorcinoliglyoxal resin for oil and solvent spill capture. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 4655-4664	5.5	20
Laponite-based inorganic-organic hybrid coating to reduce fire risk of flexible polyurethane foams. <i>Applied Clay Science</i> , 2020 , 189, 105525	5.2	12
Hydrophobic and flame-retardant finishing of cotton fabrics for waterBil separation. <i>Cellulose</i> , 2020 , 27, 4145-4159	5.5	16
Multifunctional epoxy composites with highly flame retardant and effective electromagnetic interference shielding performances. <i>Composites Part B: Engineering</i> , 2020 , 192, 107990	10	36
Hybrid coatings for durable flame retardant and hydrophilic treatment of Polyamide 6.6 fabrics. <i>Progress in Organic Coatings</i> , 2020 , 144, 105640	4.8	7
Effect of metal-based nanoparticles decorated graphene hybrids on flammability of epoxy nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020 , 129, 105694	8.4	25
	Epoxy Resins. ACS Applied Nano Materials, 2021, 4, 8162-8172 Phosphorus-Free Ellagic Acid-Derived Epoxy Thermosets with Intrinsic Antiflammability and High Class Transition Temperature. ACS Sustainable Chemistry and Engineering, 2021, 9, 10799-10808 Intrinsically anti-flammable and self-toughened phosphorylated cardanol-derived novolac epoxy thermosets. Industrial Crops and Products, 2021, 166, 113496 Highly flame retardant, low thermally conducting, and hydrophobic phytic acid-guanazole-cellulose nanofiber composite foams. Cellulose, 2021, 28, 9769-9783 Combination of cardanol-derived flame retardant with SiO2@MOF particles for simultaneously enhancing the toughness, anti-flammability and smoke suppression of epoxy thermosets. Composites Communications, 2021, 27, 100904 Cardanol as a versatile platform for fabrication of bio-based flame-retardant epoxy thermosets as DGEBA substitutes. Chemical Engineering Journal, 2021, 421, 129738 Phosphorylated cardanol-formaldehyde oligomers as flame-retardant and toughening agents for epoxy thermosets. Chemical Engineering Journal, 2021, 423, 130192 Fully bio-based epoxy resin derived from vanillin with flame retardancy and degradability. Reactive and Functional Polymers, 2021, 168, 105034 Synthesis of star-shaped allyl phosphazene small molecules for enhancing fire safety and toughness of high performance BMI resin. Chemical Engineering Journal, 2021, 425, 130655 Self-assembly of phosphonate-metal complex for superhydrophobic and durable flame-retardant polyesteritotton fabrics. Cellulose, 2020, 27, 6011-6025 Construction of durable flame-retardant and robust superhydrophobic coatings on cotton fabrics for water-oil separation application. Chemical Engineering Journal, 2020, 398, 125661 A fully bio-based coaking made from alginate, chitosan and hydroxyapatite for protecting flexible polyurethane foam from fire. Carbohydrate Polymers, 2020, 246, 116641 Lightweight, hydrophobic and recyclable carbon foam derived from ligninitesorcinoliglyoxal resin for oil and s	Epoxy Resins. ACS Applied Nano Materials, 2021, 4, 8162-8172 Phosphorus-Free Ellagic Acid-Derived Epoxy Thermosets with Intrinsic Antiflammability and High Glass Transition Temperature. ACS Sustainable Chemistry and Engineering, 2021, 9, 10799-10808 Intrinsically anti-flammable and self-toughened phosphorylated cardanol-derived novolac epoxy thermosets. Industrial Crops and Products, 2021, 166, 113496 Highly flame retardant, low thermally conducting, and hydrophobic phytic acid-guanazole-cellulose nanofiber composite foams. Cellulose, 2021, 28, 9769-9783 Combination of cardanol-derived flame retardant with SIO2@MOF particles for simultaneously enhancing the toughness, anti-flammability and smoke suppression of epoxy thermosets. Composites Communications, 2021, 27, 100904 Cardanola as a versatile platform for fabrication of bio-based flame-retardant epoxy thermosets as DGEBA substitutes. Chemical Engineering Journal, 2021, 421, 129738 Phosphorylated cardanol-formaldehyde oligomers as flame-retardant and toughening agents for epoxy thermosets. Chemical Engineering Journal, 2021, 423, 130192 Fully bio-based epoxy resin derived from vanillin with flame retardancy and degradability. Reactive and Functional Polymers, 2021, 168, 105034 Synthesis of star-shaped allyl phosphazene small molecules for enhancing fire safety and toughness of high performance BMI resin. Chemical Engineering Journal, 2021, 425, 130655 Self-assembly of phosphonate-metal complex for superhydrophobic and durable flame-retardant polyesterflotton fabrics. Cellulose, 2020, 27, 6011-6025 Construction of durable flame-retardant and robust superhydrophobic coatings on cotton fabrics for water-oil separation application. Chemical Engineering Journal, 2020, 398, 125661 14-7 A fully bio-based coating made from alginate, chitosan and hydroxyapatite for protecting flexible polyurethane foam from fire. Carbohydrate Polymers, 2020, 246, 116641 Lightweight, hydrophobic and recyclable carbon foam derived from lignin@sorcinol@lyoxal resin for oil a

66	Highly flame retardant zeolitic imidazole framework-8@cellulose composite aerogels as absorption materials for organic pollutants. <i>Cellulose</i> , 2020 , 27, 2237-2251	5.5	30
65	Halogen and halogen-free flame retarded biologically-based polyamide with markedly suppressed smoke and toxic gases releases. <i>Composites Part B: Engineering</i> , 2020 , 184, 107737	10	14
64	Zeolitic imidazolate framework-8/polyvinyl alcohol hybrid aerogels with excellent flame retardancy. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020 , 129, 105720	8.4	27
63	Chitosan-based flame retardant coatings for polyamide 66 textiles: One-pot deposition versus layer-by-layer assembly. <i>International Journal of Biological Macromolecules</i> , 2020 , 143, 1-10	7.9	21
62	Self-assembly followed by radical polymerization of ionic liquid for interfacial engineering of black phosphorus nanosheets: Enhancing flame retardancy, toxic gas suppression and mechanical performance of polyurethane. <i>Journal of Colloid and Interface Science</i> , 2020 , 561, 32-45	9.3	57
61	Metal-organic frameworks for flame retardant polymers application: A critical review. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020 , 139, 106113	8.4	30
60	An environmentally friendly approach to fabricating flame retardant, antibacterial and antifungal cotton fabrics via self-assembly of guanazole-metal complex. <i>Journal of Cleaner Production</i> , 2020 , 273, 122832	10.3	18
59	Recent advances in construction of hybrid nano-structures for flame retardant polymers application. <i>Applied Materials Today</i> , 2020 , 20, 100762	6.6	16
58	Building of hierarchical structure of functionalized montmorillonite anchored with ZnO: Toward fabricating high-performance polyethylene composite. <i>Applied Clay Science</i> , 2020 , 196, 105767	5.2	12
57	Graphene oxide/zeolitic imidazolate frameworks-8 coating for cotton fabrics with highly flame retardant, self-cleaning and efficient oil/water separation performances. <i>Materials Chemistry and Physics</i> , 2020 , 256, 123656	4.4	11
56	Preparation and antimicrobial effect of a cinnamaldehyde-based sustained release fumigant tablet for grain storage. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 14122-14130	5.5	1
55	Application of Chitosan and DOPO derivatives in fire protection of polyamide 66 textiles: Towards a combined gas phase and condensed phase activity. <i>Polymer Degradation and Stability</i> , 2020 , 176, 1091	5 87	10
54	Construction of SiO2@UiO-66 corelinell microarchitectures through covalent linkage as flame retardant and smoke suppressant for epoxy resins. <i>Composites Part B: Engineering</i> , 2019 , 176, 107261	10	49
53	Large-scale production of simultaneously exfoliated and Functionalized Mxenes as promising flame retardant for polyurethane. <i>Composites Part B: Engineering</i> , 2019 , 179, 107486	10	62
52	Few layer deposition and sol-gel finishing of organic-inorganic compounds for improved flame retardant and hydrophilic properties of polyamide 66 textiles: A hybrid approach. <i>Progress in Organic Coatings</i> , 2019 , 129, 318-326	4.8	24
51	Processing bulk natural bamboo into a strong and flame-retardant composite material. <i>Industrial Crops and Products</i> , 2019 , 138, 111478	5.9	27
50	Polyaniline-coupled graphene/nickel hydroxide nanohybrids as flame retardant and smoke suppressant for epoxy composites. <i>Polymers for Advanced Technologies</i> , 2019 , 30, 1959-1967	3.2	16
49	Effect of aluminum diethylphosphinate on the thermal stability and flame retardancy of flexible polyurethane foams. <i>Fire Safety Journal</i> , 2019 , 106, 72-79	3.3	29

48	Substrate-versatile approach to fabricate mechanochemically robust and superhydrophobic surfaces from waste fly ash. <i>Progress in Organic Coatings</i> , 2019 , 132, 353-361	4.8	9
47	Intrinsically flame retardant bio-based epoxy thermosets: A review. <i>Composites Part B: Engineering</i> , 2019 , 179, 107487	10	55
46	An operable platform towards functionalization of chemically inert boron nitride nanosheets for flame retardancy and toxic gas suppression of thermoplastic polyurethane. <i>Composites Part B: Engineering</i> , 2019 , 178, 107462	10	30
45	Construction of hierarchical MoS2@TiO2 structure for the high performance bimaleimide system with excellent fire safety and mechanical properties. <i>Chemical Engineering Journal</i> , 2019 , 369, 451-462	14.7	38
44	Highly-aligned cellulose fibers reinforced epoxy composites derived from bulk natural bamboo. <i>Industrial Crops and Products</i> , 2019 , 129, 434-439	5.9	52
43	Exceptional flame-retardant cellulosic foams modified with phosphorus-hybridized graphene nanosheets. <i>Cellulose</i> , 2019 , 26, 1247-1260	5.5	18
42	Cardanol derived benzoxazine in combination with boron-doped graphene toward simultaneously improved toughening and flame retardant epoxy composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019 , 116, 13-23	8.4	70
41	Nano-fibrillated cellulose-hydroxyapatite based composite foams with excellent fire resistance. <i>Carbohydrate Polymers</i> , 2018 , 195, 71-78	10.3	73
40	Multi-functional hydroxyapatite/polyvinyl alcohol composite aerogels with self-cleaning, superior fire resistance and low thermal conductivity. <i>Composites Science and Technology</i> , 2018 , 158, 128-136	8.6	58
39	Borate cross-linked layer-by-layer assembly of green polyelectrolytes on polyamide 66 fabrics for flame-retardant treatment. <i>Progress in Organic Coatings</i> , 2018 , 121, 173-181	4.8	34
38	Mussel-inspired functionalization of electrochemically exfoliated graphene: Based on self-polymerization of dopamine and its suppression effect on the fire hazards and smoke toxicity of thermoplastic polyurethane. <i>Journal of Hazardous Materials</i> , 2018 , 352, 57-69	12.8	108
37	Two-dimensional cardanol-derived zirconium phosphate hybrid as flame retardant and smoke suppressant for epoxy resin. <i>Polymer Degradation and Stability</i> , 2018 , 151, 172-180	4.7	37
36	Effect of phytic acidihodified layered double hydroxide on flammability and mechanical properties of intumescent flame retardant polypropylene system. <i>Fire and Materials</i> , 2018 , 42, 213-220	1.8	34
35	Hypophosphorous acid cross-linked layer-by-layer assembly of green polyelectrolytes on polyester-cotton blend fabrics for durable flame-retardant treatment. <i>Carbohydrate Polymers</i> , 2018 , 201, 1-8	10.3	41
34	Melamine-containing polyphosphazene wrapped ammonium polyphosphate: A novel multifunctional organic-inorganic hybrid flame retardant. <i>Journal of Hazardous Materials</i> , 2018 , 344, 83	9 -848	162
33	Construction of flame retardant coating on polyamide 6.6 via UV grafting of phosphorylated chitosan and sol-gel process of organo-silane. <i>Carbohydrate Polymers</i> , 2018 , 181, 833-840	10.3	49
32	Finishing of cotton fabrics by multi-layered coatings to improve their flame retardancy and water repellency. <i>Cellulose</i> , 2018 , 25, 4791-4803	5.5	50
31	A green approach to constructing multilayered nanocoating for flame retardant treatment of polyamide 66 fabric from chitosan and sodium alginate. <i>Carbohydrate Polymers</i> , 2017 , 166, 131-138	10.3	57

30	Carbon-family materials for flame retardant polymeric materials. <i>Progress in Polymer Science</i> , 2017 , 69, 22-46	29.6	275
29	MoS2/Polymer Nanocomposites: Preparation, Properties, and Applications. <i>Polymer Reviews</i> , 2017 , 57, 440-466	14	99
28	Synthesis of Phosphorylated Graphene Oxide Based Multilayer Coating: Self-Assembly Method and Application for Improving the Fire Safety of Cotton Fabrics. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 6664-6670	3.9	29
27	Renewable Cardanol-Based Phosphate as a Flame Retardant Toughening Agent for Epoxy Resins. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 3409-3416	8.3	131
26	Flame-retardant-wrapped polyphosphazene nanotubes: A novel strategy for enhancing the flame retardancy and smoke toxicity suppression of epoxy resins. <i>Journal of Hazardous Materials</i> , 2017 , 325, 327-339	12.8	149
25	Polypropylene (PP)/Polylactic Acid-Based Biocomposites and Bionanocomposites 2017 , 85-112		
24	Integrated effect of supramolecular self-assembled sandwich-like melamine cyanurate/MoS hybrid sheets on reducing fire hazards of polyamide 6 composites. <i>Journal of Hazardous Materials</i> , 2016 , 320, 252-264	12.8	52
23	A metalBrganic framework-derived bifunctional oxygen electrocatalyst. <i>Nature Energy</i> , 2016 , 1,	62.3	1622
22	Multifunctional intercalation in layered double hydroxide: toward multifunctional nanohybrids for epoxy resin. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 2147-2157	13	105
21	Molybdenum disulfide nanosheets as barrier enhancing nanofillers in thermal decomposition of polypropylene composites. <i>Chemical Engineering Journal</i> , 2016 , 295, 278-287	14.7	37
20	Thermal exfoliation of hexagonal boron nitride for effective enhancements on thermal stability, flame retardancy and smoke suppression of epoxy resin nanocomposites via solgel process. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 7330-7340	13	265
19	Studies on Synthesis of Electrochemically Exfoliated Functionalized Graphene and Polylactic Acid/Ferric Phytate Functionalized Graphene Nanocomposites as New Fire Hazard Suppression Materials. <i>ACS Applied Materials & Discretaces</i> , 2016 , 8, 25552-62	9.5	92
18	Renewable Cardanol-Based Surfactant Modified Layered Double Hydroxide as a Flame Retardant for Epoxy Resin. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 3281-3290	8.3	143
17	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	13	155
16	Liquid-exfoliated MoS2 by chitosan and enhanced mechanical and thermal properties of chitosan/MoS2 composites. <i>Composites Science and Technology</i> , 2014 , 93, 76-82	8.6	81
15	Recent Development of Molybdenum Sulfides as Advanced Electrocatalysts for Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , 2014 , 4, 1693-1705	13.1	678
14	An eco-friendly way to fire retardant flexible polyurethane foam: layer-by-layer assembly of fully bio-based substances. <i>RSC Advances</i> , 2014 , 4, 46164-46169	3.7	50
13	The effect of graphene presence in flame retarded epoxy resin matrix on the mechanical and flammability properties of glass fiber-reinforced composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013 , 53, 88-96	8.4	121

LIST OF PUBLICATIONS

200
110
132
330
136
118
24
108
407
' '
1