Xiaming Feng

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6346517/publications.pdf

Version: 2024-02-01

62	3,970	94433 37	149698 56
papers	citations	h-index	g-index

62	62	62	3162
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hierarchical MoS₂/polyaniline binary hybrids with high performance for improving fire safety of epoxy resin. Polymers for Advanced Technologies, 2022, 33, 163-172.	3.2	6
2	A Thermoset Shape Memory Polymer-Based Syntactic Foam with Flame Retardancy and 3D Printability. ACS Applied Polymer Materials, 2022, 4, 1183-1195.	4.4	12
3	Eco-friendly synthesis of ferric ion-polyphenol-graphene aerogel for solar steam generation. Materials Letters, 2022, 313, 131738.	2.6	11
4	A soft syntactic foam actuator with high recovery stress, actuation strain, and energy output. Materials Today Communications, 2022, 31, 103303.	1.9	7
5	UV curable, flame retardant, and pressure-sensitive adhesives with two-way shape memory effect. Polymer, 2022, 249, 124835.	3.8	11
6	Cicada wing-inspired solar transmittance enhancement and hydrophobicity design for graphene-based solar steam generation: A novel gas phase deposition approach. Applied Energy, 2022, 320, 119322.	10.1	24
7	Healing efficiency characterization of self-healing polymers. , 2022, , 27-56.		1
8	Multifunctional thermoset polymers with self-healing ability. , 2022, , 457-482.		0
9	Overview of crack self-healing. , 2022, , 1-26.		1
10	A hybrid shape memory polymer filled metallic foam composite: shape restoring, strain sensing, Joule heating, strengthening, and toughening. Smart Materials and Structures, 2022, 31, 095009.	3.5	2
11	Recyclable Thermoset Polymers for 4D Printing. , 2021, , .		0
12	Machine learning assisted discovery of new thermoset shape memory polymers based on a small training dataset. Polymer, 2021, 214, 123351.	3.8	32
13	High-temperature shape memory photopolymer with intrinsic flame retardancy and record-high recovery stress. Applied Materials Today, 2021, 23, 101056.	4.3	18
14	Catalyst-free Î²-hydroxy phosphate ester exchange for robust fire-proof vitrimers. Chemical Engineering Journal, 2021, 417, 129132.	12.7	73
15	Multifunctional Polymer Composites: Self-Healing, Shape Memory, 3D Printing, and Flame Retardancy. , 2021, , .		0
16	Room-Temperature Self-Healable and Mechanically Robust Thermoset Polymers for Healing Delamination and Recycling Carbon Fibers. ACS Applied Materials & Interfaces, 2021, 13, 53099-53110.	8.0	36
17	From Drug Molecules to Thermoset Shape Memory Polymers: A Machine Learning Approach. ACS Applied Materials & Interfaces, 2021, 13, 60508-60521.	8.0	15
18	Biobased Tannic Acid Cross-Linked Epoxy Thermosets with Hierarchical Molecular Structure and Tunable Properties: Damping, Shape Memory, and Recyclability. ACS Sustainable Chemistry and Engineering, 2020, 8, 874-883.	6.7	65

#	Article	IF	Citations
19	Versatile Phosphate Diester-Based Flame Retardant Vitrimers via Catalyst-Free Mixed Transesterification. ACS Applied Materials & Interfaces, 2020, 12, 57486-57496.	8.0	73
20	Novel onion-like graphene aerogel beads for efficient solar vapor generation under non-concentrated illumination. Journal of Materials Chemistry A, 2019, 7, 4400-4407.	10.3	62
21	Cyclotriphosphazene-bridged periodic mesoporous organosilica-integrated cellulose nanofiber anisotropic foam with highly flame-retardant and thermally insulating properties. Chemical Engineering Journal, 2019, 375, 121933.	12.7	93
22	Multireusable Thermoset with Anomalous Flame-Triggered Shape Memory Effect. ACS Applied Materials & Interfaces, 2019, 11, 16075-16086.	8.0	79
23	Enhanced interphase between thermoplastic matrix and UHMWPE fiber sized with CNT-modified polydopamine coating. Composites Science and Technology, 2019, 174, 212-220.	7.8	97
24	Exfoliation and modification of covalent organic frameworks by a green one-step strategy: Enhanced thermal, mechanical and flame retardant performances of biopolymer nanocomposite film. Composites Part A: Applied Science and Manufacturing, 2018, 110, 162-171.	7.6	30
25	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. Journal of Hazardous Materials, 2018, 352, 57-69.	12.4	142
26	Melamine-containing polyphosphazene wrapped ammonium polyphosphate: A novel multifunctional organic-inorganic hybrid flame retardant. Journal of Hazardous Materials, 2018, 344, 839-848.	12.4	262
27	Polydopamine-bridged synthesis of ternary h-BN@PDA@SnO2 as nanoenhancers for flame retardant and smoke suppression of epoxy composites. Composites Part A: Applied Science and Manufacturing, 2018, 111, 94-105.	7.6	106
28	Facile fabrication of organically modified boron nitride nanosheets and its effect on the thermal stability, flame retardant, and mechanical properties of thermoplastic polyurethane. Polymers for Advanced Technologies, 2018, 29, 2545-2552.	3.2	45
29	The influence of typical layered inorganic compounds on the improved thermal stability and fire resistance properties of polystyrene nanocomposites. Polymer Composites, 2017, 38, E320.	4.6	6
30	A single Î±-cobalt hydroxide/sodium alginate bilayer layer-by-layer assembly for conferring flame retardancy to flexible polyurethane foams. Materials Chemistry and Physics, 2017, 191, 52-61.	4.0	41
31	A novel strategy to simultaneously electrochemically prepare and functionalize graphene with a multifunctional flame retardant. Chemical Engineering Journal, 2017, 316, 514-524.	12.7	165
32	MoS₂/Polymer Nanocomposites: Preparation, Properties, and Applications. Polymer Reviews, 2017, 57, 440-466.	10.9	132
33	Novel Melamine/o-Phthalaldehyde Covalent Organic Frameworks Nanosheets: Enhancement Flame Retardant and Mechanical Performances of Thermoplastic Polyurethanes. ACS Applied Materials & Interfaces, 2017, 9, 23017-23026.	8.0	98
34	Facile Construction of Flame-Retardant-Wrapped Molybdenum Disulfide Nanosheets for Properties Enhancement of Thermoplastic Polyurethane. Industrial & Engineering Chemistry Research, 2017, 56, 7229-7238.	3.7	61
35	Two-Dimensional Metal Phenylphosphonates as Novel Flame Retardants for Polystyrene. Industrial & Engineering Chemistry Research, 2017, 56, 7192-7206.	3.7	29
36	A facile strategy to simultaneously exfoliate and functionalize boron nitride nanosheets via Lewis acid-base interaction. Chemical Engineering Journal, 2017, 330, 309-321.	12.7	135

#	Article	IF	Citations
37	Flame-retardant-wrapped polyphosphazene nanotubes: A novel strategy for enhancing the flame retardancy and smoke toxicity suppression of epoxy resins. Journal of Hazardous Materials, 2017, 325, 327-339.	12.4	223
38	Self-standing cuprous oxide nanoparticles on silica@ polyphosphazene nanospheres: 3D nanostructure for enhancing the flame retardancy and toxic effluents elimination of epoxy resins via synergistic catalytic effect. Chemical Engineering Journal, 2017, 309, 802-814.	12.7	164
39	Molybdenum disulfide nanosheets as barrier enhancing nanofillers in thermal decomposition of polypropylene composites. Chemical Engineering Journal, 2016, 295, 278-287.	12.7	47
40	Studies on Synthesis of Electrochemically Exfoliated Functionalized Graphene and Polylactic Acid/Ferric Phytate Functionalized Graphene Nanocomposites as New Fire Hazard Suppression Materials. ACS Applied Materials & Interfaces, 2016, 8, 25552-25562.	8.0	119
41	Integrated effect of supramolecular self-assembled sandwich-like melamine cyanurate/MoS2 hybrid sheets on reducing fire hazards of polyamide 6 composites. Journal of Hazardous Materials, 2016, 320, 252-264.	12.4	68
42	Functionalized Graphene from Electrochemical Exfoliation for Thermoplastic Polyurethane: Thermal Stability, Mechanical Properties, and Flame Retardancy. Industrial & Engineering Chemistry Research, 2016, 55, 10681-10689.	3.7	59
43	The effect of doped heteroatoms (nitrogen, boron, phosphorus) on inhibition thermal oxidation of reduced graphene oxide. RSC Advances, 2016, 6, 105021-105029.	3.6	81
44	Reinforcement of organo-modified molybdenum disulfide nanosheets on the mechanical and thermal properties of polyurethane acrylate films. Composites Science and Technology, 2016, 137, 188-195.	7.8	11
45	A 3D Nanostructure Based on Transition-Metal Phosphide Decorated Heteroatom-Doped Mesoporous Nanospheres Interconnected with Graphene: Synthesis and Applications. ACS Applied Materials & Interfaces, 2016, 8, 32528-32540.	8.0	51
46	Synthesis of a novel triazine-based polymeric flame retardant and its application in polypropylene. Polymer Degradation and Stability, 2016, 134, 202-210.	5.8	46
47	Enhanced mechanical and barrier properties of polyurethane nanocomposite films with randomly distributed molybdenum disulfide nanosheets. Composites Science and Technology, 2016, 127, 142-148.	7.8	47
48	Defect-free MoS2 nanosheets: Advanced nanofillers for polymer nanocomposites. Composites Part A: Applied Science and Manufacturing, 2016, 81, 61-68.	7.6	39
49	High-Performance Poly(ethylene oxide)/Molybdenum Disulfide Nanocomposite Films: Reinforcement of Properties Based on the Gradient Interface Effect. ACS Applied Materials & Interfaces, 2015, 7, 13164-13173.	8.0	58
50	Preparation of layered graphitic carbon nitride/montmorillonite nanohybrids for improving thermal stability of sodium alginate nanocomposites. RSC Advances, 2015, 5, 11761-11765.	3.6	10
51	A novel UV-curing flame retardant film with significantly intumescent effect. Polymer Degradation and Stability, 2015, 119, 288-294.	5.8	8
52	Preparation of UV-curable functionalized phosphazene-containing nanotube/polyurethane acrylate nanocomposite coatings with enhanced thermal and mechanical properties. RSC Advances, 2015, 5, 73775-73782.	3.6	9
53	TiO2 loaded on graphene nanosheet as reinforcer and its effect on the thermal behaviors of poly(vinyl chloride) composites. Chemical Engineering Journal, 2015, 260, 524-531.	12.7	67
54	Liquid-exfoliated MoS2 by chitosan and enhanced mechanical and thermal properties of chitosan/MoS2 composites. Composites Science and Technology, 2014, 93, 76-82.	7.8	105

#	Article	IF	Citations
55	The effect of metal oxide decorated graphene hybrids on the improved thermal stability and the reduced smoke toxicity in epoxy resins. Chemical Engineering Journal, 2014, 250, 214-221.	12.7	109
56	Functionalization of graphene with grafted polyphosphamide for flame retardant epoxy composites: synthesis, flammability and mechanism. Polymer Chemistry, 2014, 5, 1145-1154.	3.9	190
57	In situ synthesis of a MoS₂/CoOOH hybrid by a facile wet chemical method and the catalytic oxidation of CO in epoxy resin during decomposition. Journal of Materials Chemistry A, 2014, 2, 13299.	10.3	129
58	Simultaneous Reduction and Surface Functionalization of Graphene Oxide by Chitosan and Their Synergistic Reinforcing Effects in PVA Films. Industrial & Engineering Chemistry Research, 2013, 52, 12906-12914.	3.7	72
59	A facile and cost-effective approach to the reduction of exfoliated graphite oxide using sodium hypophosphite under acidic conditions. Journal of Materials Chemistry C, 2013, 1, 690-694.	5.5	20
60	Self-assembly of Niâ€“Fe layered double hydroxide/graphene hybrids for reducing fire hazard in epoxy composites. Journal of Materials Chemistry A, 2013, 1, 4383.	10.3	227
61	Synthesis of a Novel Triazine-Based Hyperbranched Char Foaming Agent and the Study of Its Enhancement on Flame Retardancy and Thermal Stability of Polypropylene. Industrial & Engineering Chemistry Research, 2013, 52, 17015-17022.	3.7	41
62	A Novel Approach to Simultaneously Obtain Well-Hydrophobic and Photothermal Materials for Organic Contaminant Removal and Solar Steam Generation. SSRN Electronic Journal, 0, , .	0.4	0