

Shiya Ran

List of Publications by Citations

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32
papers

1,138
citations

17
h-index

33
g-index

34
ext. papers

1,808
ext. citations

7.7
avg, IF

5.33
L-index

#	Paper	IF	Citations
32	Improved flame resistance and thermo-mechanical properties of epoxy resin nanocomposites from functionalized graphene oxide via self-assembly in water. <i>Composites Part B: Engineering</i> , 2019 , 165, 406-416	10.4	219
31	Phosphorus-containing flame retardant epoxy thermosets: Recent advances and future perspectives. <i>Progress in Polymer Science</i> , 2021 , 114, 101366	29.6	129
30	A bio-based ionic complex with different oxidation states of phosphorus for reducing flammability and smoke release of epoxy resins. <i>Composites Communications</i> , 2020 , 17, 104-108	6.7	92
29	Synthesis of decorated graphene with P, N-containing compounds and its flame retardancy and smoke suppression effects on polylactic acid. <i>Composites Part B: Engineering</i> , 2019 , 170, 41-50	10	84
28	A facile way to prepare phosphorus-nitrogen-functionalized graphene oxide for enhancing the flame retardancy of epoxy resin. <i>Composites Communications</i> , 2018 , 10, 97-102	6.7	83
27	A highly fire-safe and smoke-suppressive single-component epoxy resin with switchable curing temperature and rapid curing rate. <i>Composites Part B: Engineering</i> , 2021 , 207, 108601	10	69
26	A molecularly engineered bioderived polyphosphate for enhanced flame retardant, UV-blocking and mechanical properties of poly(lactic acid). <i>Chemical Engineering Journal</i> , 2021 , 411, 128493	14.7	56
25	Transparent, highly thermostable and flame retardant polycarbonate enabled by rod-like phosphorous-containing metal complex aggregates. <i>Chemical Engineering Journal</i> , 2021 , 409, 128223	14.7	54
24	Carbon nanotube bridged cerium phenylphosphonate hybrids, fabrication and their effects on the thermal stability and flame retardancy of the HDPE/BFR composite. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 2999	13	44
23	A Zr-based metal organic frameworks towards improving fire safety and thermal stability of polycarbonate. <i>Composites Part B: Engineering</i> , 2019 , 176, 107198	10	30
22	Char barrier effect of graphene nanoplatelets on the flame retardancy and thermal stability of high-density polyethylene flame-retarded by brominated polystyrene. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	27
21	Flame-retardant, transparent, mechanically-strong and tough epoxy resin enabled by high-efficiency multifunctional boron-based polyphosphonamide. <i>Chemical Engineering Journal</i> , 2022 , 427, 131578	14.7	27
20	Synthesis of cerium phenylphosphonate and its synergistic flame retardant effect with decabromodiphenyl oxide in glass-fiber reinforced poly(ethylene terephthalate). <i>Polymer Composites</i> , 2014 , 35, 539-547	3	25
19	Deposition growth of Zr-based MOFs on cerium phenylphosphonate lamella towards enhanced thermal stability and fire safety of polycarbonate. <i>Composites Part B: Engineering</i> , 2020 , 197, 108064	10	23
18	Effect of Friedel-Crafts reaction on the thermal stability and flammability of high-density polyethylene/brominated polystyrene/graphene nanoplatelet composites. <i>Polymer International</i> , 2014 , 63, 1835-1841	3.3	21
17	Fabrication of fullerene-decorated graphene oxide and its influence on flame retardancy of high density polyethylene. <i>Composites Science and Technology</i> , 2016 , 129, 123-129	8.6	19
16	The effect of fullerene on the resistance to thermal degradation of polymers with different degradation processes. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014 , 115, 1235-1244	4.1	18

15	A hyperbranched P/N/B-containing oligomer as multifunctional flame retardant for epoxy resins. <i>Composites Part B: Engineering</i> , 2022 , 234, 109701	10	13
14	Influence of fullerenes on the thermal and flame-retardant properties of polymeric materials. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 47538	2.9	13
13	Improving flame-retardant efficiency by incorporation of fullerene in styrene-Butadiene-Styrene block copolymer/aluminum hydroxide composites. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016 , 125, 199-204	4.1	12
12	Effect of a Lewis Acid Catalyst on the Performance of HDPE/BFR/GNPs Composites. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 4711-4717	3.9	12
11	Promoting dispersion of graphene nanoplatelets in polyethylene and chlorinated polyethylene by Friedel-Crafts reaction. <i>Composites Science and Technology</i> , 2013 , 86, 157-163	8.6	12
10	Improvement of the thermal and thermo-oxidative stability of high-density polyethylene by free radical trapping of rare earth compound. <i>Thermochimica Acta</i> , 2015 , 612, 55-62	2.9	11
9	Synergistic flame retardant mechanism of lanthanum phenylphosphonate and decabromodiphenyl oxide in polycarbonate. <i>Polymer Composites</i> , 2019 , 40, 986-999	3	8
8	Smoke suppression of graphene platelets fabricated by Friedel-Crafts reaction in brominated flame-retarded PS. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017 , 128, 1719-1730	4.1	7
7	Morphology and mechanical behaviors of rigid organic particles reinforced polycarbonate. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 49762	2.9	6
6	Sulfonated Block Ionomers Enable Transparent, Fire-Resistant, Tough yet Strong Polycarbonate. <i>Chemical Engineering Journal</i> , 2021 , 133264	14.7	5
5	Fabrication and Mechanism Study of Cerium-Based P, N-Containing Complexes for Reducing Fire Hazards of Polycarbonate with Superior Thermostability and Toughness. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	5
4	Encouraging mechanical reinforcement in polycarbonate nanocomposite films via incorporation of melt blending-prepared polycarbonate-graft-graphene oxide. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	4
3	Improved thermal stability of polyethylene with rare earth trifluoromethanesulfonate. <i>Composites Communications</i> , 2018 , 8, 19-23	6.7	4
2	Phosphine oxide for reducing flammability of ethylene-vinyl-acetate copolymer. <i>E-Polymers</i> , 2021 , 21, 299-308	2.7	1
1	Fullerene-induced crystallization toward improved mechanical properties of solvent casting polycarbonate films. <i>Applied Physics A: Materials Science and Processing</i> , 2020 , 126, 1	2.6	0