

# Shiya Ran

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/8853238/shiya-ran-publications-by-year.pdf>

**Version:** 2024-04-27

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.

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	A hyperbranched P/N/B-containing oligomer as multifunctional flame retardant for epoxy resins. <i>Composites Part B: Engineering</i> , <b>2022</b> , 234, 109701	10	13
31	Flame-retardant, transparent, mechanically-strong and tough epoxy resin enabled by high-efficiency multifunctional boron-based polyphosphonamide. <i>Chemical Engineering Journal</i> , <b>2022</b> , 427, 131578	14.7	27
30	Sulfonated Block Ionomers Enable Transparent, Fire-Resistant, Tough yet Strong Polycarbonate. <i>Chemical Engineering Journal</i> , <b>2021</b> , 133264	14.7	5
29	Phosphorus-containing flame retardant epoxy thermosets: Recent advances and future perspectives. <i>Progress in Polymer Science</i> , <b>2021</b> , 114, 101366	29.6	129
28	Transparent, highly thermostable and flame retardant polycarbonate enabled by rod-like phosphorous-containing metal complex aggregates. <i>Chemical Engineering Journal</i> , <b>2021</b> , 409, 128223	14.7	54
27	A molecularly engineered bioderived polyphosphate for enhanced flame retardant, UV-blocking and mechanical properties of poly(lactic acid). <i>Chemical Engineering Journal</i> , <b>2021</b> , 411, 128493	14.7	56
26	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 &amp; Interfaces</i> , <b>2021</b> ,	9.5	5
25	Morphology and mechanical behaviors of rigid organic particles reinforced polycarbonate. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 49762	2.9	6
24	Phosphine oxide for reducing flammability of ethylene-vinyl-acetate copolymer. <i>E-Polymers</i> , <b>2021</b> , 21, 299-308	2.7	1
23	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> , <b>2021</b> , 207, 108601	10	69
22	Fullerene-induced crystallization toward improved mechanical properties of solvent casting polycarbonate films. <i>Applied Physics A: Materials Science and Processing</i> , <b>2020</b> , 126, 1	2.6	0
21	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> , <b>2020</b> , 197, 108064	10	23
20	A bio-based ionic complex with different oxidation states of phosphorus for reducing flammability and smoke release of epoxy resins. <i>Composites Communications</i> , <b>2020</b> , 17, 104-108	6.7	92
19	Influence of fullerenes on the thermal and flame-retardant properties of polymeric materials. <i>Journal of Applied Polymer Science</i> , <b>2020</b> , 137, 47538	2.9	13
18	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> , <b>2019</b> , 165, 406-416	10	219
17	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> , <b>2019</b> , 125, 1	2.6	4
16	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> , <b>2019</b> , 170, 41-50	10	84

15	A Zr-based metal organic frameworks towards improving fire safety and thermal stability of polycarbonate. <i>Composites Part B: Engineering</i> , <b>2019</b> , 176, 107198	10	30
14	Synergistic flame retardant mechanism of lanthanum phenylphosphonate and decabromodiphenyl oxide in polycarbonate. <i>Polymer Composites</i> , <b>2019</b> , 40, 986-999	3	8
13	Improved thermal stability of polyethylene with rare earth trifluoromethanesulfonate. <i>Composites Communications</i> , <b>2018</b> , 8, 19-23	6.7	4
12	A facile way to prepare phosphorus-nitrogen-functionalized graphene oxide for enhancing the flame retardancy of epoxy resin. <i>Composites Communications</i> , <b>2018</b> , 10, 97-102	6.7	83
11	Smoke suppression of graphene platelets fabricated by Friedel-Crafts reaction in brominated flame-retarded PS. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2017</b> , 128, 1719-1730	4.1	7
10	Improving flame-retardant efficiency by incorporation of fullerene in styrene-butadiene-ethylene block copolymer/aluminum hydroxide composites. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2016</b> , 125, 199-204	4.1	12
9	Fabrication of fullerene-decorated graphene oxide and its influence on flame retardancy of high density polyethylene. <i>Composites Science and Technology</i> , <b>2016</b> , 129, 123-129	8.6	19
8	Improvement of the thermal and thermo-oxidative stability of high-density polyethylene by free radical trapping of rare earth compound. <i>Thermochimica Acta</i> , <b>2015</b> , 612, 55-62	2.9	11
7	Synthesis of cerium phenylphosphonate and its synergistic flame retardant effect with decabromodiphenyl oxide in glass-fiber reinforced poly(ethylene terephthalate). <i>Polymer Composites</i> , <b>2014</b> , 35, 539-547	3	25
6	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> , <b>2014</b> , 2, 2999	13	44
5	Effect of a Lewis Acid Catalyst on the Performance of HDPE/BFR/GNPs Composites. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 4711-4717	3.9	12
4	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> , <b>2014</b> , 131, n/a-n/a	2.9	27
3	Effect of Friedel-Crafts reaction on the thermal stability and flammability of high-density polyethylene/brominated polystyrene/graphene nanoplatelet composites. <i>Polymer International</i> , <b>2014</b> , 63, 1835-1841	3.3	21
2	The effect of fullerene on the resistance to thermal degradation of polymers with different degradation processes. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2014</b> , 115, 1235-1244	4.1	18
1	Promoting dispersion of graphene nanoplatelets in polyethylene and chlorinated polyethylene by Friedel-Crafts reaction. <i>Composites Science and Technology</i> , <b>2013</b> , 86, 157-163	8.6	12