

Bin Zhao

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

1,220
citations

279798

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477307

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1154
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#	ARTICLE	IF	CITATIONS
1	Bisphenol-S bridged penta(anilino)cyclotriphosphazene and its application in epoxy resins: Synthesis, thermal degradation, and flame retardancy. <i>Polymer Degradation and Stability</i> , 2017, 135, 140-151.	5.8	108
2	Aluminum Hypophosphite versus Alkyl-Substituted Phosphinate in Polyamide 6: Flame Retardance, Thermal Degradation, and Pyrolysis Behavior. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 2875-2886.	3.7	104
3	A novel efficient halogen-free flame retardant system for polycarbonate. <i>Polymer Degradation and Stability</i> , 2011, 96, 320-327.	5.8	93
4	Synthesis of a novel bridged-cyclotriphosphazene flame retardant and its application in epoxy resin. <i>Polymer Degradation and Stability</i> , 2016, 133, 162-173.	5.8	71
5	A phosphorus-containing inorganic compound as an effective flame retardant for glass-fiber-reinforced polyamide 6. <i>Journal of Applied Polymer Science</i> , 2011, 119, 2379-2385.	2.6	69
6	A novel phosphoramidate and its application on cotton fabrics: Synthesis, flammability and thermal degradation. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 125, 109-116.	5.5	62
7	Graphene oxide-wrapped flower-like silver particles for surface-enhanced Raman spectroscopy and their applications in polychlorinated biphenyls detection. <i>Applied Surface Science</i> , 2017, 400, 49-56.	6.1	54
8	Bi-phase flame-retardant actions of water-blown rigid polyurethane foam containing diethyl-N,N-bis(2-hydroxyethyl) phosphoramidate and expandable graphite. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 124, 247-255.	5.5	49
9	Synergistic Effect between Aluminum Hypophosphite and Alkyl-Substituted Phosphinate in Flame-Retarded Polyamide 6. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 17162-17170.	3.7	48
10	An efficient halogen-free flame retardant for glass-fibre-reinforced poly(butylene terephthalate). <i>Polymer Degradation and Stability</i> , 2012, 97, 158-165.	5.8	42
11	Silver dendrites decorated filter membrane as highly sensitive and reproducible three dimensional surface enhanced Raman scattering substrates. <i>Applied Surface Science</i> , 2016, 387, 431-436.	6.1	41
12	Facile fabrication of Ag dendrite-integrated anodic aluminum oxide membrane as effective three-dimensional SERS substrate. <i>Applied Surface Science</i> , 2016, 377, 167-173.	6.1	40
13	Facile two-step phosphazine-based network coating for flame retardant cotton. <i>Cellulose</i> , 2020, 27, 4123-4132.	4.9	40
14	A ternary functional Ag@GO@Au sandwiched hybrid as an ultrasensitive and stable surface enhanced Raman scattering platform. <i>Applied Surface Science</i> , 2017, 409, 306-313.	6.1	36
15	Enhanced flame retardancy of DGEBA epoxy resin with a novel bisphenol-A bridged cyclotriphosphazene. <i>Polymer Degradation and Stability</i> , 2017, 144, 292-303.	5.8	35
16	Green synthesis of multi-dimensional plasmonic coupling structures: Graphene oxide gapped gold nanostars for highly intensified surface enhanced Raman scattering. <i>Chemical Engineering Journal</i> , 2018, 349, 581-587.	12.7	35
17	Flame retardation and thermal stability of novel phosphoramidate/expandable graphite in rigid polyurethane foam. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46434.	2.6	34
18	Graphene oxide-highly anisotropic noble metal hybrid systems for intensified surface enhanced Raman scattering and direct capture and sensitive discrimination in PCBs monitoring. <i>Journal of Hazardous Materials</i> , 2020, 385, 121510.	12.4	34

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19	A novel aminothiazole-based cyclotriphosphazene derivate towards epoxy resins for high flame retardancy and smoke suppression. <i>Polymer Degradation and Stability</i> , 2021, 190, 109651.	5.8	32
20	Impacts of multi-element flame retardants on flame retardancy, thermal stability, and pyrolysis behavior of epoxy resin. <i>Polymer Degradation and Stability</i> , 2019, 167, 217-227.	5.8	31
21	Acrylonitrile-Butadiene-Styrene Terpolymer with Metal Hypophosphites: Flame Retardance and Mechanism Research. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 2299-2307.	3.7	30
22	An effective multi-hydroxy-containing ammonium phosphate towards flame-retarding poly(lactic acid) resin. <i>Polymer Degradation and Stability</i> , 2018, 134, 265-273.	5.5	29
23	Environmentally-benign, water-based covalent polymer network for flame retardant cotton. <i>Cellulose</i> , 2021, 28, 5855.	4.9	27
24	Novel synthesis of hierarchical flower-like silver assemblies with assistance of natural organic acids for surface-enhanced Raman spectroscopy. <i>Journal of Materials Science</i> , 2017, 52, 11391-11401.	3.7	20
25	Functionalized Graphene Oxide Based on Hydrogen Bonding Interaction in Water: Preparation and Flame Retardation on Epoxy Resin. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1900164.	3.6	17
26	A main-chain phosphorus-containing poly(trimethylene terephthalate) copolyester: synthesis, characterization, and flame retardance. <i>Polymers for Advanced Technologies</i> , 2012, 23, 1276-1282.	3.2	14
27	Aluminum Hydroxymethylphosphinate and Melamine Pyrophosphate: Synergistic Flame Retardance and Smoke Suppression for Glass Fiber Reinforced Polyamide 6. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 15613-15620.	3.7	14
28	Polyamide 6 with a flame retardant encapsulated by polyamide 66: Flame retardation, thermo-decomposition and the potential mechanism. <i>Chinese Journal of Polymer Science (English)</i>	3.7	14
29	Thermal Degradation and Fire Behaviors of Glass Fiber Reinforced PA6 Flame Retarded by Combination of Aluminum Hypophosphite with Melamine Derivatives. <i>ACS Symposium Series</i> , 2012, , 167-182.	0.5	3