# Bin Yu

List of Publications by Year
in descending order

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| | | 20817 | 30087 |
|---|---|---|---|
| 117 | 11,056 | 60 | 103 |
| papers | citations | h-index | g-index |

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|---|---|---|---|
| 118 | 118 | 118 | 5376 |
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Phosphorus-containing flame retardant epoxy thermosets: Recent advances and future perspectives. Progress in Polymer Science, 2021, 114, 101366. | 24.7 | 421 |
| 2 | Flame retardant polymeric nanocomposites through the combination of nanomaterials and conventional flame retardants. Progress in Materials Science, 2020, 114, 100687. | 32.8 | 415 |
| 3 | Enhanced thermal and flame retardant properties of flame-retardant-wrapped graphene/epoxy resin nanocomposites. Journal of Materials Chemistry A, 2015, 3, 8034-8044. | 10.3 | 371 |
| 4 | Thermal exfoliation of hexagonal boron nitride for effective enhancements on thermal stability, flame retardancy and smoke suppression of epoxy resin nanocomposites via solâ€“gel process. Journal of Materials Chemistry A, 2016, 4, 7330-7340. | 10.3 | 346 |
| 5 | Interface decoration of exfoliated MXene ultra-thin nanosheets for fire and smoke suppressions of thermoplastic polyurethane elastomer. Journal of Hazardous Materials, 2019, 374, 110-119. | 12.4 | 301 |
| 6 | Lignin-derived bio-based flame retardants toward high-performance sustainable polymeric materials. Green Chemistry, 2020, 22, 2129-2161. | 9.0 | 249 |
| 7 | Robust, Lightweight, Hydrophobic, and Fire-Retarded Polyimide/MXene Aerogels for Effective Oil/Water Separation. ACS Applied Materials & Interfaces, 2019, 11, 40512-40523. | 8.0 | 230 |
| 8 | 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 |
| 9 | Interface engineering of MXene towards super-tough and strong polymer nanocomposites with high ductility and excellent fire safety. Chemical Engineering Journal, 2020, 399, 125829. | 12.7 | 226 |
| 10 | 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 |
| 11 | Polyphosphoramide-intercalated MXene for simultaneously enhancing thermal stability, flame retardancy and mechanical properties of polylactide. Chemical Engineering Journal, 2020, 397, 125336. | 12.7 | 207 |
| 12 | Bioinspired, Highly Adhesive, Nanostructured Polymeric Coatings for Superhydrophobic Fire-Extinguishing Thermal Insulation Foam. ACS Nano, 2021, 15, 11667-11680. | 14.6 | 195 |
| 13 | Strengthening, toughing and thermally stable ultra-thin MXene nanosheets/polypropylene nanocomposites via nanoconfinement. Chemical Engineering Journal, 2019, 378, 122267. | 12.7 | 191 |
| 14 | Functionalization of graphene with grafted polyphosphamide for flame retardant epoxy composites: synthesis, flammability and mechanism. Polymer Chemistry, 2014, 5, 1145-1154. | 3.9 | 190 |
| 15 | Functionalized graphene oxide/phosphoramide oligomer hybrids flame retardant prepared via in situ polymerization for improving the fire safety of polypropylene. RSC Advances, 2014, 4, 31782. | 3.6 | 184 |
| 16 | Graphitic carbon nitride/phosphorus-rich aluminum phosphinates hybrids as smoke suppressants and flame retardants for polystyrene. Journal of Hazardous Materials, 2017, 332, 87-96. | 12.4 | 179 |
| 17 | Highly Effective Pâ€“P Synergy of a Novel DOPO-Based Flame Retardant for Epoxy Resin. Industrial & Engineering Chemistry Research, 2017, 56, 1245-1255. | 3.7 | 176 |
| 18 | MXene/chitosan nanocoating for flexible polyurethane foam towards remarkable fire hazards reductions. Journal of Hazardous Materials, 2020, 381, 120952. | 12.4 | 174 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Economical and environment-friendly synthesis of a novel hyperbranched poly(aminomethylphosphine) Tj ETQq1 1 0.784314 rgBT /Over temperature and toughness of epoxy resins. Chemical Engineering Journal, 2017, 322, 618-631. | 12.7 | 169 |
| 20 | Organic/inorganic flame retardants containing phosphorus, nitrogen and silicon: Preparation and their performance on the flame retardancy of epoxy resins as a novel intumescent flame retardant system. Materials Chemistry and Physics, 2014, 143, 1243-1252. | 4.0 | 168 |
| 21 | 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 |
| 22 | Novel organicâ€“inorganic flame retardants containing exfoliated graphene: preparation and their performance on the flame retardancy of epoxy resins. Journal of Materials Chemistry A, 2013, 1, 6822. | 10.3 | 163 |
| 23 | Surface-coating engineering for flame retardant flexible polyurethane foams: A critical review. Composites Part B: Engineering, 2019, 176, 107185. | 12.0 | 163 |
| 24 | Biomimetic structural cellulose nanofiber aerogels with exceptional mechanical, flame-retardant and thermal-insulating properties. Chemical Engineering Journal, 2020, 389, 124449. | 12.7 | 163 |
| 25 | MXene as emerging nanofillers for high-performance polymer composites: A review. Composites Part B: Engineering, 2021, 217, 108867. | 12.0 | 161 |
| 26 | Influence of g-C<sub>3</sub>N<sub>4</sub> Nanosheets on Thermal Stability and Mechanical Properties of Biopolymer Electrolyte Nanocomposite Films: A Novel Investigation. ACS Applied Materials & Interfaces, 2014, 6, 429-437. | 8.0 | 159 |
| 27 | Design of reduced graphene oxide decorated with DOPO-phosphanomidate for enhanced fire safety of epoxy resin. Journal of Colloid and Interface Science, 2018, 521, 160-171. | 9.4 | 157 |
| 28 | Engineering MXene surface with POSS for reducing fire hazards of polystyrene with enhanced thermal stability. Journal of Hazardous Materials, 2021, 401, 123342. | 12.4 | 151 |
| 29 | Phosphorus and Nitrogen-Containing Polyols: Synergistic Effect on the Thermal Property and Flame Retardancy of Rigid Polyurethane Foam Composites. Industrial & Engineering Chemistry Research, 2016, 55, 10813-10822. | 3.7 | 150 |
| 30 | Creating MXene/reduced graphene oxide hybrid towards highly fire safe thermoplastic polyurethane nanocomposites. Composites Part B: Engineering, 2020, 203, 108486. | 12.0 | 145 |
| 31 | In situ preparation of reduced graphene oxide/DOPO-based phosphonamidate hybrids towards high-performance epoxy nanocomposites. Composites Part B: Engineering, 2017, 123, 154-164. | 12.0 | 142 |
| 32 | Manufacturing, mechanical and flame retardant properties of poly(lactic acid) biocomposites based on calcium magnesium phytate and carbon nanotubes. Composites Part A: Applied Science and Manufacturing, 2018, 110, 227-236. | 7.6 | 136 |
| 33 | Functionalizing MXene towards highly stretchable, ultratough, fatigue- and fire-resistant polymer nanocomposites. Chemical Engineering Journal, 2021, 424, 130338. | 12.7 | 130 |
| 34 | Novel CuCo2O4/graphitic carbon nitride nanohybrids: Highly effective catalysts for reducing CO generation and fire hazards of thermoplastic polyurethane nanocomposites. Journal of Hazardous Materials, 2015, 293, 87-96. | 12.4 | 125 |
| 35 | Hyper-branched polymer grafting graphene oxide as an effective flame retardant and smoke suppressant for polystyrene. Journal of Hazardous Materials, 2015, 300, 58-66. | 12.4 | 122 |
| 36 | Facile preparation of layered melamine-phytate flame retardant via supramolecular self-assembly technology. Journal of Colloid and Interface Science, 2019, 553, 364-371. | 9.4 | 116 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Multifunctional MXene/natural rubber composite films with exceptional flexibility and durability. Composites Part B: Engineering, 2020, 188, 107875. | 12.0 | 111 |
| 38 | 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 |
| 39 | Surface modification of ammonium polyphosphate by supramolecular assembly for enhancing fire safety properties of polypropylene. Composites Part B: Engineering, 2020, 181, 107588. | 12.0 | 106 |
| 40 | UV-Curable Functionalized Graphene Oxide/Polyurethane Acrylate Nanocomposite Coatings with Enhanced Thermal Stability and Mechanical Properties. Industrial & Engineering Chemistry Research, 2012, 51, 14629-14636. | 3.7 | 104 |
| 41 | Surface decoration of Halloysite nanotubes with POSS for fire-safe thermoplastic polyurethane nanocomposites. Journal of Materials Science and Technology, 2022, 101, 107-117. | 10.7 | 96 |
| 42 | A lava-inspired micro/nano-structured ceramifiable organic-inorganic hybrid fire-extinguishing coating. Matter, 2022, 5, 911-932. | 10.0 | 96 |
| 43 | Functionalization of MXene Nanosheets for Polystyrene towards High Thermal Stability and Flame Retardant Properties. Polymers, 2019, 11, 976. | 4.5 | 93 |
| 44 | Comparative study on the synergistic effect of POSS and graphene with melamine phosphate on the flame retardance of poly(butylene succinate). Thermochimica Acta, 2012, 543, 156-164. | 2.7 | 92 |
| 45 | Enhanced thermal and mechanical properties of functionalized graphene/thiol-ene systems by photopolymerization technology. Chemical Engineering Journal, 2013, 228, 318-326. | 12.7 | 91 |
| 46 | Highly efficient flame retardant and smoke suppression mechanism of boron modified graphene Oxide/Poly(Lactic acid) nanocomposites. Carbon, 2019, 150, 8-20. | 10.3 | 91 |
| 47 | Cyclodextrin microencapsulated ammonium polyphosphate: Preparation and its performance on the thermal, flame retardancy and mechanical properties of ethylene vinyl acetate copolymer. Composites Part B: Engineering, 2015, 69, 22-30. | 12.0 | 87 |
| 48 | Facile Synthesis of a Highly Efficient, Halogen-Free, and Intumescent Flame Retardant for Epoxy Resins: Thermal Properties, Combustion Behaviors, and Flame-Retardant Mechanisms. Industrial & Engineering Chemistry Research, 2016, 55, 10868-10879. | 3.7 | 86 |
| 49 | Comparative study on the flame retarded efficiency of melamine phosphate, melamine phosphite and melamine hypophosphite on poly(butylene succinate) composites. Polymer Degradation and Stability, 2014, 105, 248-256. | 5.8 | 85 |
| 50 | Bio-inspired, sustainable and mechanically robust graphene oxide-based hybrid networks for efficient fire protection and warning. Chemical Engineering Journal, 2022, 439, 134516. | 12.7 | 81 |
| 51 | Fire Intumescent, High-Temperature Resistant, Mechanically Flexible Graphene Oxide Network for Exceptional Fire Shielding and Ultra-Fast Fire Warning. Nano-Micro Letters, 2022, 14, 92. | 27.0 | 79 |
| 52 | Synthesis of MnO 2 nanoparticles with different morphologies and application for improving the fire safety of epoxy. Composites Part A: Applied Science and Manufacturing, 2017, 95, 173-182. | 7.6 | 72 |
| 53 | Advances in Flame Retardant Poly(Lactic Acid). Polymers, 2018, 10, 876. | 4.5 | 70 |
| 54 | A facile one-step synthesis of highly efficient melamine salt reactive flame retardant for epoxy resin. Journal of Materials Science, 2020, 55, 12836-12847. | 3.7 | 70 |

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|---|---|---|---|
| 55 | Aluminum hypophosphite in combination with expandable graphite as a novel flame retardant system for rigid polyurethane foams. Polymers for Advanced Technologies, 2014, 25, 1034-1043. | 3.2 | 67 |
| 56 | Silicon nanoparticle decorated graphene composites: preparation and their reinforcement on the fire safety and mechanical properties of polyurea. Journal of Materials Chemistry A, 2013, 1, 9827. | 10.3 | 65 |
| 57 | A novel boronâ€“nitrogen intumescent flame retardant coating on cotton with improved washing durability. Cellulose, 2018, 25, 843-857. | 4.9 | 64 |
| 58 | A reactive copper-organophosphate-MXene heterostructure enabled antibacterial, self-extinguishing and mechanically robust polymer nanocomposites. Chemical Engineering Journal, 2022, 430, 132712. | 12.7 | 64 |
| 59 | Effect of borates on thermal degradation and flame retardancy of epoxy resins using polyhedral oligomeric silsesquioxane as a curing agent. Thermochimica Acta, 2012, 535, 71-78. | 2.7 | 63 |
| 60 | A novel polyurethane prepolymer as toughening agent: Preparation, characterization, and its influence on mechanical and flame retardant properties of phenolic foam. Journal of Applied Polymer Science, 2013, 128, 2720-2728. | 2.6 | 62 |
| 61 | Tunable thermal, flame retardant and toxic effluent suppression properties of polystyrene based on alternating graphitic carbon nitride and multi-walled carbon nanotubes. Journal of Materials Chemistry A, 2015, 3, 17064-17073. | 10.3 | 61 |
| 62 | Unsaturated polyester resins modified with phosphorus-containing groups: Effects on thermal properties and flammability. Polymer Degradation and Stability, 2013, 98, 2033-2040. | 5.8 | 59 |
| 63 | CuO/Graphene Nanohybrids: Preparation and Enhancement on Thermal Stability and Smoke Suppression of Polypropylene. Industrial & Engineering Chemistry Research, 2013, 52, 13654-13660. | 3.7 | 58 |
| 64 | High-performance flame-retardant polycarbonate composites: Mechanisms investigation and fire-safety evaluation systems establishment. Composites Part B: Engineering, 2022, 238, 109873. | 12.0 | 58 |
| 65 | Integrated effect of NH2-functionalized/triazine based covalent organic framework black phosphorus on reducing fire hazards of epoxy nanocomposites. Chemical Engineering Journal, 2020, 401, 126058. | 12.7 | 55 |
| 66 | Graphite-like carbon nitride and functionalized layered double hydroxide filled polypropylene-grafted maleic anhydride nanocomposites: Comparison in flame retardancy, and thermal, mechanical and UV-shielding properties. Composites Part B: Engineering, 2015, 79, 277-284. | 12.0 | 54 |
| 67 | A combination of POSS and polyphosphazene for reducing fire hazards of epoxy resin. Polymers for Advanced Technologies, 2018, 29, 1242-1254. | 3.2 | 53 |
| 68 | Hierarchical assembly of polystyrene/graphitic carbon nitride/reduced graphene oxide nanocomposites toward high fire safety. Composites Part B: Engineering, 2019, 179, 107541. | 12.0 | 51 |
| 69 | Sodium alginate-templated synthesis of g-C3N4/carbon spheres/Cu ternary nanohybrids for fire safety application. Journal of Colloid and Interface Science, 2019, 539, 1-10. | 9.4 | 51 |
| 70 | Sandwichlike Coating Consisting of Alternating Montmorillonite and Î²-FeOOH for Reducing the Fire Hazard of Flexible Polyurethane Foam. ACS Sustainable Chemistry and Engineering, 2015, 3, 3214-3223. | 6.7 | 49 |
| 71 | Synthesis of anhydrous manganese hypophosphite microtubes for simultaneous flame retardant and mechanical enhancement on poly(lactic acid). Composites Science and Technology, 2018, 164, 44-50. | 7.8 | 47 |
| 72 | Highly efficient catalysts for reducing toxic gases generation change with temperature of rigid polyurethane foam nanocomposites: A comparative investigation. Composites Part A: Applied Science and Manufacturing, 2018, 112, 142-154. | 7.6 | 47 |

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|---|---|---|---|
| 73 | Facile synthesis of aluminum branched oligo(phenylphosphonate) submicro-particles with enhanced flame retardance and smoke toxicity suppression for epoxy resin composites. Journal of Hazardous Materials, 2020, 381, 121233. | 12.4 | 47 |
| 74 | Superior thermal and fire safety performances of epoxy-based composites with phosphorus-doped cerium oxide nanosheets. Applied Surface Science, 2020, 504, 144314. | 6.1 | 46 |
| 75 | Synthesis and application of synergistic azo-boron-BPA / polydopamine as efficient flame retardant for poly(lactic acid). Polymer Degradation and Stability, 2018, 152, 64-74. | 5.8 | 45 |
| 76 | Study on thermal degradation and combustion behavior of flame retardant unsaturated polyester resin modified with a reactive phosphorus containing monomer. RSC Advances, 2016, 6, 49633-49642. | 3.6 | 44 |
| 77 | Simultaneous fire safety enhancement and mechanical reinforcement of poly(lactic acid) biocomposites with hexaphenyl (nitrilotris(ethane-2,1-diyl))tris(phosphoramidate). Journal of Hazardous Materials, 2019, 380, 120856. | 12.4 | 43 |
| 78 | Facile preparation of phosphorus containing hyperbranched polysiloxane grafted graphene oxide hybrid toward simultaneously enhanced flame retardancy and smoke suppression of thermoplastic polyurethane nanocomposites. Composites Part A: Applied Science and Manufacturing, 2021, 150, 106614. | 7.6 | 43 |
| 79 | Thermal, crystalline and mechanical properties of flame retarded Poly(lactic acid) with a PBO-like small molecule - Phenylphosphonic Bis(2-aminobenzothiazole). Polymer Degradation and Stability, 2019, 163, 76-86. | 5.8 | 42 |
| 80 | 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 |
| 81 | Flexible and fire safe sandwich structured composites with superior electromagnetic interference shielding properties. Composites Part A: Applied Science and Manufacturing, 2022, 160, 107070. | 7.6 | 41 |
| 82 | Establishing pyrolysis kinetics for the modelling of the flammability and burning characteristics of solid combustible materials. Journal of Fire Sciences, 2018, 36, 494-517. | 2.0 | 39 |
| 83 | Facile flame retardant finishing of cotton fabric with hydrated sodium metaborate. Cellulose, 2019, 26, 4629-4640. | 4.9 | 38 |
| 84 | Surface Manipulation of Thermal-Exfoliated Hexagonal Boron Nitride with Polyaniline for Improving Thermal Stability and Fire Safety Performance of Polymeric Materials. ACS Omega, 2018, 3, 14942-14952. | 3.5 | 37 |
| 85 | A novel phosphorus-containing MoS2 hybrid: Towards improving the fire safety of epoxy resin. Journal of Colloid and Interface Science, 2019, 550, 210-219. | 9.4 | 37 |
| 86 | Highly Effective Flame-Retardant Rigid Polyurethane Foams: Fabrication and Applications in Inhibition of Coal Combustion. Polymers, 2019, 11, 1776. | 4.5 | 36 |
| 87 | Effect of Functionalized Graphene Oxide with Organophosphorus Oligomer on the Thermal and Mechanical Properties and Fire Safety of Polystyrene. Industrial & Engineering Chemistry Research, 2015, 54, 3309-3319. | 3.7 | 34 |
| 88 | In situ fabrication of molybdenum disulfide based nanohybrids for reducing fire hazards of epoxy. Composites Part A: Applied Science and Manufacturing, 2019, 122, 77-84. | 7.6 | 34 |
| 89 | Cost-effective graphite felt and phosphorous flame retardant with extremely high electromagnetic shielding. Composites Part B: Engineering, 2022, 236, 109819. | 12.0 | 34 |
| 90 | Thermal and flame retardant properties of transparent UV-curing epoxy acrylate coatings with POSS-based phosphonate acrylate. RSC Advances, 2015, 5, 75254-75262. | 3.6 | 33 |

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|---|---|---|---|
| 91 | Surface treatment of two dimensional MXene for poly(vinylidene fluoride) nanocomposites with tunable dielectric permittivity. Composites Communications, 2021, 23, 100562. | 6.3 | 33 |
| 92 | Leaf vein-inspired engineering of MXene@SrSn(OH)6 nanorods towards super-tough elastomer nanocomposites with outstanding fire safety. Composites Part B: Engineering, 2022, 228, 109425. | 12.0 | 33 |
| 93 | Synthesis of a multifunctional bisphosphate and its flame retardant application in epoxy resin. Polymer Degradation and Stability, 2019, 165, 92-100. | 5.8 | 30 |
| 94 | Construction of interface-engineered two-dimensional nanohybrids towards superb fire resistance of epoxy composites. Composites Part A: Applied Science and Manufacturing, 2022, 152, 106707. | 7.6 | 30 |
| 95 | Pectin-assisted dispersion of exfoliated boron nitride nanosheets for assembled bio-composite aerogels. Composites Part A: Applied Science and Manufacturing, 2019, 119, 196-205. | 7.6 | 29 |
| 96 | Enhanced fire-retardancy of poly(ethylene vinyl acetate) electrical cable coatings containing microencapsulated ammonium polyphosphate as intumescent flame retardant. RSC Advances, 2016, 6, 85564-85573. | 3.6 | 25 |
| 97 | Facile Synthesis of Phosphorus and Cobalt Co-Doped Graphitic Carbon Nitride for Fire and Smoke Suppressions of Polylactide Composite. Polymers, 2020, 12, 1106. | 4.5 | 25 |
| 98 | Experimental and numerical perspective on the fire performance of MXene/Chitosan/Phytic acid coated flexible polyurethane foam. Scientific Reports, 2021, 11, 4684. | 3.3 | 24 |
| 99 | Synergistic effect of flame retardants and graphitic carbon nitride on flame retardancy of polylactide composites. Polymers for Advanced Technologies, 2020, 31, 1661-1670. | 3.2 | 23 |
| 100 | Click-chemistry approach for graphene modification: effective reinforcement of UV-curable functionalized graphene/polyurethane acrylate nanocomposites. RSC Advances, 2015, 5, 13502-13506. | 3.6 | 21 |
| 101 | Fabrication of carbon black coated flexible polyurethane foam for significantly improved fire safety. RSC Advances, 2015, 5, 55870-55878. | 3.6 | 21 |
| 102 | Surface modification of multi-scale cuprous oxide with tunable catalytic activity towards toxic fumes and smoke suppression of rigid polyurethane foam. Applied Surface Science, 2021, 556, 149792. | 6.1 | 21 |
| 103 | The influence of poorly-/well-dispersed organo-montmorillonite on interfacial compatibility, fire retardancy and smoke suppression of polypropylene/intumescent flame retardant composite system. Journal of Colloid and Interface Science, 2022, 622, 367-377. | 9.4 | 21 |
| 104 | Functionalized graphene/thermoplastic polyester elastomer nanocomposites by reactive extrusionâ€based masterbatch: preparation and properties reinforcement. Polymers for Advanced Technologies, 2014, 25, 605-612. | 3.2 | 20 |
| 105 | POSS-functionalized polyphosphazene nanotube: preparation and effective reinforcement on UV-curable epoxy acrylate nanocomposite coatings. RSC Advances, 2016, 6, 3025-3031. | 3.6 | 20 |
| 106 | Study of structure morphology and layer thickness of Ti3C2 MXene with Small-Angle Neutron Scattering (SANS). Composites Part C: Open Access, 2021, 5, 100155. | 3.2 | 17 |
| 107 | Hierarchical Ti3C2Tx@BPA@PCL for flexible polyurethane foam capable of anti-compression, self-extinguishing and flame-retardant. Journal of Colloid and Interface Science, 2022, 626, 208-220. | 9.4 | 15 |
| 108 | Controlled self-template synthesis of manganese-based cuprous oxide nanoplates towards improved fire safety properties of epoxy composites. Journal of Hazardous Materials, 2020, 387, 122006. | 12.4 | 14 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Flame retardant poly (lactic acid) biocomposites based on azoâ€boron coupled 4,4â€²â€sulfonyldiphenol and its combination with calcium lignosulfonateâ€”Crystalline and mechanical properties. Polymers for Advanced Technologies, 2019, 30, 2207-2220. | 3.2 | 13 |
| 110 | A triazine-based hyperbranched char-forming agent for efficient intumescent flame retardant Poly(lactic acid) composites. Composites Communications, 2022, 33, 101225. | 6.3 | 12 |
| 111 | Alumina nanoflakeâ€coated graphene nanohybrid as a novel flame retardant filler for polypropylene. Polymers for Advanced Technologies, 2019, 30, 2153-2158. | 3.2 | 11 |
| 112 | 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 |
| 113 | Electrostatic-Interaction-Driven Assembly of Binary Hybrids towards Fire-Safe Epoxy Resin Nanocomposites. Polymers, 2019, 11, 229. | 4.5 | 10 |
| 114 | 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 |
| 115 | Insight into Hyper-Branched Aluminum Phosphonate in Combination with Multiple Phosphorus Synergies for Fire-Safe Epoxy Resin Composites. Polymers, 2020, 12, 64. | 4.5 | 9 |
| 116 | Facile preparation of uniform polydopamine particles and its application as an environmentally friendly flame retardant for biodegradable polylactic acid. Journal of Fire Sciences, 2020, 38, 485-503. | 2.0 | 6 |
| 117 | Elastic polybenzimidazole nanofiber aerogel for thermal insulation and high-temperature oil adsorption. Journal of Materials Science, 2022, 57, 12125-12137. | 3.7 | 3 |