Yu-Zhong Wang

List of Publications by Year
in descending order

648 papers	31,995 citations	3930 88 h-index	15249 126 g-index
650 all docs	650 docs citations	650 times ranked	17706 citing authors

#	Article	IF	Citations
1	Biodegradation behavior of poly(butylene adipate-co-terephthalate) (PBAT), poly(lactic acid) (PLA), and their blend under soil conditions. Polymer Testing, 2013, 32, 918-926.	2.3	375
2	Chitin Whiskers: An Overview. Biomacromolecules, 2012, 13, 1-11.	2.6	374
3	Cellulose Aerogels: Synthesis, Applications, and Prospects. Polymers, 2018, 10, 623.	2.0	311
4	Biodegradable Soy Protein Isolate-Based Materials: A Review. Biomacromolecules, 2011, 12, 3369-3380.	2.6	287
5	An Efficient Mono-Component Polymeric Intumescent Flame Retardant for Polypropylene: Preparation and Application. ACS Applied Materials & Interfaces, 2014, 6, 7363-7370.	4.0	268
6	Ultralight CoNi/rGO aerogels toward excellent microwave absorption at ultrathin thickness. Journal of Materials Chemistry C, 2019, 7, 441-448.	2.7	238
7	Green composite films prepared from cellulose, starch and lignin in room-temperature ionic liquid. Bioresource Technology, 2009, 100, 2569-2574.	4.8	237
8	New application for aromatic Schiff base: High efficient flame-retardant and anti-dripping action for polyesters. Chemical Engineering Journal, 2018, 336, 622-632.	6.6	228
9	Synergistic effect between a novel hyperbranched charring agent and ammonium polyphosphate on the flame retardant and anti-dripping properties of polylactide. Polymer Degradation and Stability, 2010, 95, 763-770.	2.7	227
10	Synergistic effect of ammonium polyphosphate and layered double hydroxide on flame retardant properties of poly(vinyl alcohol). Polymer Degradation and Stability, 2008, 93, 1323-1331.	2.7	221
11	Ammonium polyphosphate chemically-modified with ethanolamine as an efficient intumescent flame retardant for polypropylene. Journal of Materials Chemistry A, 2014, 2, 13955.	5.2	220
12	Novel Multifunctional Organicâ€“Inorganic Hybrid Curing Agent with High Flame-Retardant Efficiency for Epoxy Resin. ACS Applied Materials & Interfaces, 2015, 7, 17919-17928.	4.0	213
13	A novel and feasible approach for one-pack flame-retardant epoxy resin with long pot life and fast curing. Chemical Engineering Journal, 2018, 337, 30-39.	6.6	212
14	Advanced Flameâ€Retardant Methods for Polymeric Materials. Advanced Materials, 2022, 34, e2107905.	11.1	209
15	POLY(p-DIOXANONE) AND ITS COPOLYMERS. Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics, 2002, 42, 373-398.	2.2	194
16	Halogen-Free Flame-Retardant Flexible Polyurethane Foam with a Novel Nitrogenâ€“Phosphorus Flame Retardant. Industrial & Engineering Chemistry Research, 2012, 51, 9769-9776.	1.8	186
17	Preparation and burning behaviors of flame retarding biodegradable poly(lactic acid) nanocomposite based on zinc aluminum layered double hydroxide. Polymer Degradation and Stability, 2010, 95, 2474-2480.	2.7	181
18	Latent curing epoxy system with excellent thermal stability, flame retardance and dielectric property. Chemical Engineering Journal, 2018, 347, 223-232.	6.6	181

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19	Fully Biobased and Supertough Polylactide-Based Thermoplastic Vulcanizates Fabricated by Peroxide-Induced Dynamic Vulcanization and Interfacial Compatibilization. Biomacromolecules, 2014, 15, 4260-4271.	2.6	178
20	Novel phosphorus-containing halogen-free ionic liquid toward fire safety epoxy resin with well-balanced comprehensive performance. Chemical Engineering Journal, 2018, 354, 208-219.	6.6	178
21	Preparation and properties of oxidized starch with high degree of oxidation. Carbohydrate Polymers, 2012, 87, 2554-2562.	5.1	170
22	A flame-retardant epoxy resin based on a reactive phosphorus-containing monomer of DODPP and its thermal and flame-retardant properties. Polymer Degradation and Stability, 2008, 93, 1308-1315.	2.7	167
23	A novel biodegradable multiblock poly(ester urethane) containing poly(l-lactic acid) and poly(butylene succinate) blocks. Polymer, 2009, 50, 1178-1186.	1.8	166
24	Properties of Starch Blends with Biodegradable Polymers. Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics, 2003, 43, 385-409.	2.2	165
25	Strong and tough fully physically crosslinked double network hydrogels with tunable mechanics and high self-healing performance. Chemical Engineering Journal, 2018, 349, 588-594.	6.6	163
26	Flame retardation of polypropylene via a novel intumescent flame retardant: Ethylenediamine-modified ammonium polyphosphate. Polymer Degradation and Stability, 2014, 106, 88-96.	2.7	160
27	Fire retardancy of a reactively extruded intumescent flame retardant polyethylene system enhanced by metal chelates. Polymer Degradation and Stability, 2007, 92, 1592-1598.	2.7	157
28	Metal compound-enhanced flame retardancy of intumescent epoxy resins containing ammonium polyphosphate. Polymer Degradation and Stability, 2009, 94, 625-631.	2.7	154
29	A Novel Intumescent Flame-Retardant Polyethylene System. Macromolecular Materials and Engineering, 2006, 291, 247-253.	1.7	153
30	Synthesis of Organo Cobaltâ"Aluminum Layered Double Hydroxide via a Novel Single-Step Self-Assembling Method and Its Use as Flame Retardant Nanofiller in PP. Langmuir, 2010, 26, 14162-14169.	1.6	153
31	Intumescence: An effect way to flame retardance and smoke suppression for polystryene. Polymer Degradation and Stability, 2012, 97, 1423-1431.	2.7	151
32	Flame-retardant and anti-dripping effects of a novel char-forming flame retardant for the treatment of poly(ethylene terephthalate) fabrics. Polymer Degradation and Stability, 2005, 88, 349-356.	2.7	147
33	Persistently flame-retardant flexible polyurethane foams by a novel phosphorus-containing polyol. Chemical Engineering Journal, 2018, 343, 198-206.	6.6	143
34	Flame-Retardant Effect of Sepiolite on an Intumescent Flame-Retardant Polypropylene System. Industrial & Engineering Chemistry Research, 2011, 50, 2047-2054.	1.8	142
35	Construction of durable eco-friendly biomass-based flame-retardant coating for cotton fabrics. Chemical Engineering Journal, 2021, 410, 128361.	6.6	142
36	Biodegradable Pectin/Clay Aerogels. ACS Applied Materials & Interfaces, 2013, 5, 1715-1721.	4.0	141

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37	Biodegradation behavior of PHAs with different chemical structures under controlled composting conditions. Polymer Testing, 2011, 30, 372-380.	2.3	140
38	Ultralight Three-Dimensional Hierarchical Cobalt Nanocrystals/N-Doped CNTs/Carbon Sponge Composites with a Hollow Skeleton toward Superior Microwave Absorption. ACS Applied Materials & Interfaces, 2019, 11, 35987-35998.	4.0	140
39	Synergistic Effect of the Charring Agent on the Thermal and Flame Retardant Properties of Polyethylene. Macromolecular Materials and Engineering, 2004, 289, 208-212.	1.7	139
40	Flame-retardant and smoke-suppressant flexible polyurethane foams based on reactive phosphorus-containing polyol and expandable graphite. Journal of Hazardous Materials, 2018, 360, 651-660.	6.5	139
41	A novel bio-based flame retardant for polypropylene from phytic acid. Polymer Degradation and Stability, 2019, 161, 298-308.	2.7	138
42	Biomimetic Optical Cellulose Nanocrystal Films with Controllable Iridescent Color and Environmental Stimuli-Responsive Chromism. ACS Applied Materials & Interfaces, 2018, 10, 5805-5811.	4.0	135
43	Nonflammable Alginate Nanocomposite Aerogels Prepared by a Simple Freeze-Drying and Post-Cross-Linking Method. ACS Applied Materials & Interfaces, 2016, 8, 643-650.	4.0	134
44	Preparation and properties of nanocomposites based on poly(lactic acid) and functionalized TiO2. Acta Materialia, 2009, 57, 3182-3191.	3.8	130
45	Dissolution Behavior of Chitin in Ionic Liquids. Journal of Macromolecular Science - Physics, 2010, 49, 528-541.	0.4	129
46	A promising strategy for chemical recycling of carbon fiber/thermoset composites: self-accelerating decomposition in a mild oxidative system. Green Chemistry, 2012, 14, 3260.	4.6	129
47	In situ formed crosslinked polyurethane toughened polylactide. Polymer Chemistry, 2014, 5, 2530.	1.9	129
48	Bio-based blends of starch and poly(butylene succinate) with improved miscibility, mechanical properties, and reduced water absorption. Carbohydrate Polymers, 2011, 83, 762-768.	5.1	127
49	Piperazine-modified ammonium polyphosphate as monocomponent flame-retardant hardener for epoxy resin: flame retardance, curing behavior and mechanical property. Polymer Chemistry, 2016, 7, 3003-3012.	1.9	126
50	Preparation and Flammability of Poly(vinyl alcohol) Composite Aerogels. ACS Applied Materials & Interfaces, 2014, 6, 6790-6796.	4.0	125
51	A flame-retardant-free and thermo-cross-linkable copolyester: Flame-retardant and anti-dripping mode of action. Polymer, 2014, 55, 2394-2403.	1.8	124
52	A review on flame retardant technology in China. Part I: development of flame retardants. Polymers for Advanced Technologies, 2010, 21, 1-26.	1.6	123
53	A novel phosphorus-containing poly(lactic acid) toward its flame retardation. Polymer, 2011, 52, 233-238.	1.8	123
54	Inherently Flame-Retardant Flexible Polyurethane Foam with Low Content of Phosphorus-Containing Cross-Linking Agent. Industrial & Engineering Chemistry Research, 2014, 53, 1160-1171.	1.8	123

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55	High Carbonyl Content Oxidized Starch Prepared by Hydrogen Peroxide and Its Thermoplastic Application. Starch/Staerke, 2009, 61, 646-655.	1.1	120
56	Low flammability, foam-like materials based on ammonium alginate and sodium montmorillonite clay. Polymer, 2012, 53, 5825-5831.	1.8	119
57	Effect of TiO2 nanoparticles on the long-term hydrolytic degradation behavior of PLA. Polymer Degradation and Stability, 2012, 97, 721-728.	2.7	119
58	A novel charring agent containing caged bicyclic phosphate and its application in intumescent flame retardant polypropylene systems. Journal of Industrial and Engineering Chemistry, 2008, 14, 589-595.	2.9	117
59	A method for simultaneously improving the flame retardancy and toughness of PLA. Polymers for Advanced Technologies, 2011, 22, 2295-2301.	1.6	117
60	Highly efficient, transparent, and environment-friendly flame-retardant coating for cotton fabric. Chemical Engineering Journal, 2021, 424, 130556.	6.6	117
61	Epoxy resin flame-retarded via a novel melamine-organophosphinic acid salt: Thermal stability, flame retardance and pyrolysis behavior. Journal of Analytical and Applied Pyrolysis, 2017, 128, 54-63.	2.6	116
62	Highly thermostable and durably flame-retardant unsaturated polyester modified by a novel polymeric flame retardant containing Schiff base and spirocyclic structures. Chemical Engineering Journal, 2018, 344, 419-430.	6.6	113
63	Inherently flame-retardant rigid polyurethane foams with excellent thermal insulation and mechanical properties. Polymer, 2018, 153, 616-625.	1.8	113
64	A novel phosphorus-containing semi-aromatic polyester toward flame retardancy and enhanced mechanical properties of epoxy resin. Chemical Engineering Journal, 2020, 380, 122471.	6.6	110
65	A Novel Phosphorus-Containing Polymer as a Highly Effective Flame Retardant. Macromolecular Materials and Engineering, 2004, 289, 703-707.	1.7	109
66	Biodegradation behavior of P(3HB,4HB)/PLA blends in real soil environments. Polymer Testing, 2013, 32, 60-70.	2.3	109
67	Design of Poly(<scp>l</scp>-lactide)â€“Poly(ethylene glycol) Copolymer with Light-Induced Shape-Memory Effect Triggered by Pendant Anthracene Groups. ACS Applied Materials & Interfaces, 2016, 8, 9431-9439.	4.0	109
68	A Fascinating Metallo-Supramolecular Polymer Network with Thermal/Magnetic/Light-Responsive Shape-Memory Effects Anchored by Fe₃O₄ Nanoparticles. Macromolecules, 2018, 51, 705-715.	2.2	109
69	Flame-Retardant multifunctional epoxy resin with high performances. Chemical Engineering Journal, 2022, 427, 132031.	6.6	106
70	Aluminum Hypophosphite versus Alkyl-Substituted Phosphinate in Polyamide 6: Flame Retardance, Thermal Degradation, and Pyrolysis Behavior. Industrial & Engineering Chemistry Research, 2013, 52, 2875-2886.	1.8	104
71	Green Approach to Improving the Strength and Flame Retardancy of Poly(vinyl alcohol)/Clay Aerogels: Incorporating Biobased Gelatin. ACS Applied Materials & Interfaces, 2017, 9, 42258-42265.	4.0	104
72	Polyamideâ€enhanced flame retardancy of ammonium polyphosphate on epoxy resin. Journal of Applied Polymer Science, 2008, 108, 2644-2653.	1.3	103

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73	Hierarchically porous SiO2/polyurethane foam composites towards excellent thermal insulating, flame-retardant and smoke-suppressant performances. Journal of Hazardous Materials, 2019, 375, 61-69.	6.5	103
74	Design and Synthesis of PETâ€Based Copolyesters with Flameâ€Retardant and Antidripping Performance. Macromolecular Rapid Communications, 2017, 38, 1700451.	2.0	102
75	Synthesis and characterization of a novel nitrogen-containing flame retardant. Journal of Applied Polymer Science, 2004, 94, 1556-1561.	1.3	101
76	Flame retardant mechanism of an efficient flame-retardant polymeric synergist with ammonium polyphosphate for polypropylene. Polymer Degradation and Stability, 2013, 98, 2011-2020.	2.7	100
77	Banana Leaflike C-Doped MoS₂ Aerogels toward Excellent Microwave Absorption Performance. ACS Applied Materials & Interfaces, 2020, 12, 26301-26312.	4.0	100
78	Preparation and characterisation of a novel fire retardant PET/Î±-zirconium phosphate nanocomposite. Polymer Degradation and Stability, 2009, 94, 544-549.	2.7	99
79	Hierarchical Ti3C2Tx@ZnO Hollow Spheres with Excellent Microwave Absorption Inspired by the Visual Phenomenon of Eyeless Urchins. Nano-Micro Letters, 2022, 14, 76.	14.4	99
80	Char-forming mechanism of a novel polymeric flame retardant with char agent. Polymer Degradation and Stability, 2007, 92, 1046-1052.	2.7	98
81	Efficient Approach to Improving the Flame Retardancy of Poly(vinyl alcohol)/Clay Aerogels: Incorporating Piperazine-Modified Ammonium Polyphosphate. ACS Applied Materials & Interfaces, 2015, 7, 1780-1786.	4.0	98
82	Thermal oxidative degradation behaviours of flame-retardant copolyesters containing phosphorous linked pendent group/montmorillonite nanocomposites. Polymer Degradation and Stability, 2005, 87, 171-176.	2.7	96
83	Effect of a phosphorus-containing flame retardant on the thermal properties and ease of ignition of poly(lactic acid). Polymer Degradation and Stability, 2011, 96, 1557-1561.	2.7	96
84	An efficiently halogen-free flame-retardant long-glass-fiber-reinforced polypropylene system. Polymer Degradation and Stability, 2011, 96, 363-370.	2.7	95
85	Photothermal Conversion Triggered Precisely Targeted Healing of Epoxy Resin Based on Thermoreversible Dielsâ€“Alder Network and Amino-Functionalized Carbon Nanotubes. ACS Applied Materials & Interfaces, 2017, 9, 20797-20807.	4.0	95
86	A novel Schiff-base polyphosphate ester: Highly-efficient flame retardant for polyurethane elastomer. Polymer Degradation and Stability, 2017, 144, 70-82.	2.7	94
87	Multifunctional Flame-Retardant Melamine-Based Hybrid Foam for Infrared Stealth, Thermal Insulation, and Electromagnetic Interference Shielding. ACS Applied Materials & Interfaces, 2021, 13, 26505-26514.	4.0	94
88	A novel efficient halogen-free flame retardant system for polycarbonate. Polymer Degradation and Stability, 2011, 96, 320-327.	2.7	93
89	Surface modification with hierarchical CuO arrays toward a flexible, durable superhydrophobic and self-cleaning material. Chemical Engineering Journal, 2017, 313, 1328-1334.	6.6	93
90	Modified Corn Starches with Improved Comprehensive Properties for Preparing Thermoplastics. Starch/Staerke, 2007, 59, 258-268.	1.1	92

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91	Photo-cross-linking: A powerful and versatile strategy to develop shape-memory polymers. Progress in Polymer Science, 2019, 95, 32-64.	11.8	91
92	From trash to treasure: Chemical recycling and upcycling of commodity plastic waste to fuels, high-valued chemicals and advanced materials. Journal of Energy Chemistry, 2022, 69, 369-388.	7.1	91
93	Biodegradation behavior of PHBV films in a pilot-scale composting condition. Polymer Testing, 2010, 29, 579-587.	2.3	90
94	An Effective Way To Flame-Retard Biocomposite with Ethanolamine Modified Ammonium Polyphosphate and Its Flame Retardant Mechanisms. Industrial & Engineering Chemistry Research, 2015, 54, 3524-3531.	1.8	90
95	Structure and Properties of Soy Protein/Poly(butylene succinate) Blends with Improved Compatibility. Biomacromolecules, 2008, 9, 3157-3164.	2.6	89
96	A new approach for the simultaneous improvement of fire retardancy, tensile strength and melt dripping of poly(ethylene terephthalate). Journal of Materials Chemistry, 2003, 13, 1248.	6.7	88
97	Polyethyleneimine modified ammonium polyphosphate toward polyamine-hardener for epoxy resin: Thermal stability, flame retardance and smoke suppression. Polymer Degradation and Stability, 2016, 131, 62-70.	2.7	88
98	Biomass-derived Co@crystalline carbon@carbon aerogel composite with enhanced thermal stability and strong microwave absorption performance. Journal of Alloys and Compounds, 2018, 736, 71-79.	2.8	88
99	Layer-by-layer assembled flame-retardant architecture toward high-performance carbon fiber composite. Chemical Engineering Journal, 2018, 353, 550-558.	6.6	88
100	Effect of metal chelates on the ignition and early flaming behaviour of intumescent fire-retarded polyethylene systems. Polymer Degradation and Stability, 2008, 93, 1024-1030.	2.7	87
101	An intumescent flame retardant polypropylene system with simultaneously improved flame retardancy and water resistance. Polymer Degradation and Stability, 2014, 108, 97-107.	2.7	87
102	Highly Flame Retardant Expanded Polystyrene Foams from Phosphorusâ€“Nitrogenâ€“Silicon Synergistic Adhesives. Industrial & Engineering Chemistry Research, 2017, 56, 4649-4658.	1.8	87
103	Novel phosphorus-containing imidazolium as hardener for epoxy resin aiming at controllable latent curing behavior and flame retardancy. Composites Part B: Engineering, 2020, 184, 107673.	5.9	87
104	Synergy effect between quaternary phosphonium ionic liquid and ammonium polyphosphate toward flame retardant PLA with improved toughness. Composites Part B: Engineering, 2020, 197, 108192.	5.9	87
105	Epoxidized soybean oil cured with tannic acid for fully bio-based epoxy resin. RSC Advances, 2018, 8, 26948-26958.	1.7	86
106	Bioinspired Color Changing Molecular Sensor toward Early Fire Detection Based on Transformation of Phthalonitrile to Phthalocyanine. Advanced Functional Materials, 2019, 29, 1806586.	7.8	86
107	Desert Beetle-Inspired Superhydrophilic/Superhydrophobic Patterned Cellulose Film with Efficient Water Collection and Antibacterial Performance. ACS Sustainable Chemistry and Engineering, 2018, 6, 14679-14684.	3.2	85
108	Facile fabrication of poly(vinyl alcohol) gels and derivative aerogels. Polymer, 2014, 55, 380-384.	1.8	84

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109	Organically modified rectorite toughened poly(lactic acid): Nanostructures, crystallization and mechanical properties. European Polymer Journal, 2009, 45, 2996-3003.	2.6	83
110	The synergistic flameâ€retardant effect of Oâ€MMT on the intumescent flameâ€retardant PP/CA/APP systems. Polymers for Advanced Technologies, 2010, 21, 789-796.	1.6	83
111	Super-tough poly(<scp>l</scp>-lactide)/crosslinked polyurethane blends with tunable impact toughness. RSC Advances, 2014, 4, 12857-12866.	1.7	83
112	A robust self-healing polyurethane elastomer: From H-bonds and stacking interactions to well-defined microphase morphology. Science China Materials, 2019, 62, 1188-1198.	3.5	83
113	Polyurethane foams with functionalized graphene towards high fire-resistance, low smoke release, superior thermal insulation. Chemical Engineering Journal, 2019, 361, 1245-1254.	6.6	83
114	Synthesis of organo-modified Î±-zirconium phosphate and its effect on the flame retardancy of IFR poly(lactic acid) systems. Polymer Degradation and Stability, 2011, 96, 771-777.	2.7	82
115	A novel phosphorus-containing flame retardant for the formaldehyde-free treatment of cotton fabrics. Polymer Degradation and Stability, 2012, 97, 2487-2491.	2.7	82
116	Kinetics of thermal degradation of flame retardant copolyesters containing phosphorus linked pendent groups. Polymer Degradation and Stability, 2003, 80, 135-140.	2.7	81
117	Constructing hierarchically hydrophilic/superhydrophobic ZIF-8 pattern on soy protein towards a biomimetic efficient water harvesting material. Chemical Engineering Journal, 2019, 369, 1040-1048.	6.6	81
118	Novel piperazine-containing oligomer as flame retardant and crystallization induction additive for thermoplastics polyurethane. Chemical Engineering Journal, 2020, 400, 125941.	6.6	81
119	Preparation and characterization of nanocomposites of polyvinyl alcohol/cellulose nanowhiskers/chitosan. Composites Science and Technology, 2015, 115, 60-65.	3.8	80
120	Adaptable Strategy to Fabricate Self-Healable and Reprocessable Poly(thiourethane-urethane) Elastomers via Reversible Thiolâ€“Isocyanate Click Chemistry. Macromolecules, 2020, 53, 4284-4293.	2.2	80
121	High strength, low flammability, and smoke suppression for epoxy thermoset enabled by a low-loading phosphorus-nitrogen-silicon compound. Composites Part B: Engineering, 2021, 211, 108640.	5.9	80
122	Flame-retarded thermoplastic polyurethane elastomer: From organic materials to nanocomposites and new prospects. Chemical Engineering Journal, 2021, 417, 129314.	6.6	80
123	Kinetics of thermal degradation and thermal oxidative degradation of poly(p-dioxanone). European Polymer Journal, 2003, 39, 1567-1574.	2.6	79
124	Cellulose/Soy Protein Isolate Blend Films Prepared via Room-Temperature Ionic Liquid. Industrial & Engineering Chemistry Research, 2009, 48, 7132-7136.	1.8	79
125	Aryl Polyphosphonates: Useful Halogen-Free Flame Retardants for Polymers. Materials, 2010, 3, 4746-4760.	1.3	79
126	4D printing of shape memory aliphatic copolyester via UV-assisted FDM strategy for medical protective devices. Chemical Engineering Journal, 2020, 396, 125242.	6.6	79

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127	Fe₃O₄ Nanoparticle/N-Doped Carbon Hierarchically Hollow Microspheres for Broadband and High-Performance Microwave Absorption at an Ultralow Filler Loading. ACS Applied Materials & Interfaces, 2020, 12, 18952-18963.	4.0	79
128	Unique Crystalline/Crystalline Polymer Blends of Poly(ethylene succinate) and Poly(p-dioxanone): Miscibility and Crystallization Behaviors. Journal of Physical Chemistry B, 2010, 114, 14827-14833.	1.2	78
129	A novel flame-retardant-free copolyester: cross-linking towards self extinguishing and non-dripping. Journal of Materials Chemistry, 2012, 22, 19849.	6.7	78
130	Super Toughened and High Heat-Resistant Poly(Lactic Acid) (PLA)-Based Blends by Enhancing Interfacial Bonding and PLA Phase Crystallization. Industrial & Engineering Chemistry Research, 2015, 54, 5643-5655.	1.8	78
131	Nickel-Schiff base decorated graphene for simultaneously enhancing the electroconductivity, fire resistance, and mechanical properties of a polyurethane elastomer. Journal of Materials Chemistry A, 2018, 6, 8643-8654.	5.2	78
132	Strong and Tough Polylactic Acid Based Composites Enabled by Simultaneous Reinforcement and Interfacial Compatibilization of Microfibrillated Cellulose. ACS Sustainable Chemistry and Engineering, 2020, 8, 1573-1582.	3.2	78
133	Electrostatic action induced interfacial accumulation of layered double hydroxides towards highly efficient flame retardance and mechanical enhancement of thermoplastic polyurethane/ammonium polyphosphate. Polymer Degradation and Stability, 2019, 165, 126-136.	2.7	76
134	A novel halogen-free flame retardant for glass-fiber-reinforced poly(ethylene terephthalate). Polymer Degradation and Stability, 2008, 93, 1188-1193.	2.7	75
135	Highly efficient solvolysis of epoxy resin using poly(ethylene glycol)/NaOH systems. Polymer Degradation and Stability, 2012, 97, 1101-1106.	2.7	75
136	Flame-Retardant Flexible Polyurethane Foams with Highly Efficient Melamine Salt. Industrial & Engineering Chemistry Research, 2017, 56, 7112-7119.	1.8	75
137	A fast and mild closed-loop recycling of anhydride-cured epoxy through microwave-assisted catalytic degradation by trifunctional amine and subsequent reuse without separation. Green Chemistry, 2019, 21, 2487-2493.	4.6	75
138	Fully bio-based, low fire-hazard and superelastic aerogel without hazardous cross-linkers for excellent thermal insulation and oil clean-up absorption. Journal of Hazardous Materials, 2021, 403, 123977.	6.5	75
139	Fully biomass-based aerogels with ultrahigh mechanical modulus, enhanced flame retardancy, and great thermal insulation applications. Composites Part B: Engineering, 2021, 225, 109309.	5.9	75
140	Phosphorus-containing copolyesters: The effect of ionic group and itsÂanalogous phosphorus heterocycles on their flame-retardant and anti-dripping performances. Polymer, 2015, 60, 50-61.	1.8	74
141	Flame retardance and thermal degradation mechanism of polystyrene modified with aluminum hypophosphite. Polymer Degradation and Stability, 2014, 99, 35-42.	2.7	73
142	Ultrasoft gelatin aerogels for oil contaminant removal. Journal of Materials Chemistry A, 2016, 4, 9381-9389.	5.2	73
143	Novel Polymer Aerogel toward High Dimensional Stability, Mechanical Property, and Fire Safety. ACS Applied Materials & Interfaces, 2017, 9, 22985-22993.	4.0	72
144	Fireâ€Safe Polyesters Enabled by Endâ€Group Capturing Chemistry. Angewandte Chemie - International Edition, 2019, 58, 9188-9193.	7.2	72

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145	Preparation and characterization of poly(lactic acid)-grafted TiO2 nanoparticles with improved dispersions. Applied Surface Science, 2009, 255, 6795-6801.	3.1	71
146	A Novel Phosphorus-Containing Poly(ethylene terephthalate) Nanocomposite with Both Flame Retardancy and Anti-Dripping Effects. Macromolecular Materials and Engineering, 2006, 291, 638-645.	1.7	70
147	A facile and efficient flame-retardant and smoke-suppressant resin coating for expanded polystyrene foams. Composites Part B: Engineering, 2020, 185, 107797.	5.9	70
148	A phosphorusâ€containing inorganic compound as an effective flame retardant for glassâ€fiberâ€reinforced polyamide 6. Journal of Applied Polymer Science, 2011, 119, 2379-2385.	1.3	69
149	Flame-Retardant Pressure-Sensitive Adhesives Derived from Epoxidized Soybean Oil and Phosphorus-Containing Dicarboxylic Acids. ACS Sustainable Chemistry and Engineering, 2017, 5, 3353-3361.	3.2	69
150	Highly effective flame retarded polystyrene by synergistic effects between expandable graphite and aluminum hypophosphite. Polymer Degradation and Stability, 2018, 154, 1-9.	2.7	69
151	3D printable robust shape memory PET copolyesters with fire safety via Ï€-stacking and synergistic crosslinking. Journal of Materials Chemistry A, 2019, 7, 17037-17045.	5.2	69
152	Kinetics of thermal oxidative degradation of phosphorus-containing flame retardant copolyesters. Polymer Degradation and Stability, 2002, 76, 401-409.	2.7	68
153	Coated vs. naked red phosphorus: A comparative study on their fire retardancy and smoke suppression for rigid polyurethane foams. Polymer Degradation and Stability, 2017, 136, 103-111.	2.7	68
154	Chameleon-Inspired Variable Coloration Enabled by a Highly Flexible Photonic Cellulose Film. ACS Applied Materials & Interfaces, 2020, 12, 46710-46718.	4.0	68
155	Double-cross-linked aerogels towards ultrahigh mechanical properties and thermal insulation at extreme environment. Chemical Engineering Journal, 2020, 399, 125698.	6.6	68
156	A Bioinspired Slippery Surface with Stable Lubricant Impregnation for Efficient Water Harvesting. ACS Applied Materials & Interfaces, 2020, 12, 12373-12381.	4.0	68
157	A green, durable and effective flame-retardant coating for expandable polystyrene foams. Chemical Engineering Journal, 2022, 440, 135807.	6.6	68
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