## Pingan Song

## List of Publications by Citations

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164<br/>papers7,829<br/>citations55<br/>h-index83<br/>g-index175<br/>ext. papers11,096<br/>ext. citations9.1<br/>avg, IF6.87<br/>L-index

#	Paper	IF	Citations
164	Fabrication of exfoliated graphene-based polypropylene nanocomposites with enhanced mechanical and thermal properties. <i>Polymer</i> , <b>2011</b> , 52, 4001-4010	3.9	480
163	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, 40	6 <del>-4</del> 16	219
162	Fabrication of Green Lignin-based Flame Retardants for Enhancing the Thermal and Fire Retardancy Properties of Polypropylene/Wood Composites. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 2422-2431	8.3	180
161	Flame retardant polymeric nanocomposites through the combination of nanomaterials and conventional flame retardants. <i>Progress in Materials Science</i> , <b>2020</b> , 114, 100687	42.2	179
160	A liquid phosphorus-containing imidazole derivative as flame-retardant curing agent for epoxy resin with enhanced thermal latency, mechanical, and flame-retardant performances. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 386, 121984	12.8	155
159	Combination effect of carbon nanotubes with graphene on intumescent flame-retardant polypropylene nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2014</b> , 59, 18-25	8.4	142
158	Strengthening, toughing and thermally stable ultra-thin MXene nanosheets/polypropylene nanocomposites via nanoconfinement. <i>Chemical Engineering Journal</i> , <b>2019</b> , 378, 122267	14.7	140
157	Super-tough artificial nacre based on graphene oxide via synergistic interface interactions of Electric stacking and hydrogen bonding. <i>Carbon</i> , <b>2017</b> , 111, 807-812	10.4	139
156	Flame-retardant-wrapped carbon nanotubes for simultaneously improving the flame retardancy and mechanical properties of polypropylene. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 5083		136
155	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
154	Interface engineering of MXene towards super-tough and strong polymer nanocomposites with high ductility and excellent fire safety. <i>Chemical Engineering Journal</i> , <b>2020</b> , 399, 125829	14.7	128
153	Bioinspired Strategy to Reinforce PVA with Improved Toughness and Thermal Properties via Hydrogen-Bond Self-Assembly. <i>ACS Macro Letters</i> , <b>2013</b> , 2, 1100-1104	6.6	127
152	High-Performance Polymeric Materials through Hydrogen-Bond Cross-Linking. <i>Advanced Materials</i> , <b>2020</b> , 32, e1901244	24	121
151	Lignin-derived bio-based flame retardants toward high-performance sustainable polymeric materials. <i>Green Chemistry</i> , <b>2020</b> , 22, 2129-2161	10	113
150	Polyphosphoramide-intercalated MXene for simultaneously enhancing thermal stability, flame retardancy and mechanical properties of polylactide. <i>Chemical Engineering Journal</i> , <b>2020</b> , 397, 125336	14.7	112
149	Cation and anion Co-doping synergy to improve structural stability of Li- and Mn-rich layered cathode materials for lithium-ion batteries. <i>Nano Energy</i> , <b>2019</b> , 57, 157-165	17.1	108
148	Bioinspired Design of Strong, Tough, and Thermally Stable Polymeric Materials via Nanoconfinement. <i>ACS Nano</i> , <b>2018</b> , 12, 9266-9278	16.7	108

147	Green and Scalable Fabrication of CoreBhell Biobased Flame Retardants for Reducing Flammability of Polylactic Acid. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 8954-8963	8.3	106
146	Granular Nanostructure: A Facile Biomimetic Strategy for the Design of Supertough Polymeric Materials with High Ductility and Strength. <i>Advanced Materials</i> , <b>2017</b> , 29, 1704661	24	105
145	Fire-Resistant, Strong, and Green Polymer Nanocomposites Based on Poly(lactic acid) and CoreBhell Nanofibrous Flame Retardants. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 7894-7904	<sub>4</sub> 8.3	105
144	Surface-coating engineering for flame retardant flexible polyurethane foams: A critical review. <i>Composites Part B: Engineering</i> , <b>2019</b> , 176, 107185	10	103
143	A lignin-based nano-adsorbent for superfast and highly selective removal of phosphate. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 9971-9983	13	98
142	Converting Industrial Alkali Lignin to Biobased Functional Additives for Improving Fire Behavior and Smoke Suppression of Polybutylene Succinate. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 4732	2 <sup>8</sup> 4742	97
141	Combination effects of graphene and layered double hydroxides on intumescent flame-retardant poly(methyl methacrylate) nanocomposites. <i>Applied Clay Science</i> , <b>2014</b> , 88-89, 78-85	5.2	92
140	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
139	Fabrication of dendrimer-like fullerene (C60)-decorated oligomeric intumescent flame retardant for reducing the thermal oxidation and flammability of polypropylene nanocomposites. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 1305		91
138	Lightweight, Superelastic Yet Thermoconductive Boron Nitride Nanocomposite Aerogel for Thermal Energy Regulation. <i>ACS Nano</i> , <b>2019</b> , 13, 7860-7870	16.7	90
137	Thermal degradation and flame retardancy properties of ABS/lignin: Effects of lignin content and reactive compatibilization. <i>Thermochimica Acta</i> , <b>2011</b> , 518, 59-65	2.9	89
136	Bio-Inspired Hydrogen-Bond Cross-Link Strategy toward Strong and Tough Polymeric Materials. <i>Macromolecules</i> , <b>2015</b> , 48, 3957-3964	5.5	86
135	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
134	Realizing simultaneous improvements in mechanical strength, flame retardancy and smoke suppression of ABS nanocomposites from multifunctional graphene. <i>Composites Part B: Engineering</i> , <b>2019</b> , 177, 107377	10	83
133	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
132	Engineering MXene surface with POSS for reducing fire hazards of polystyrene with enhanced thermal stability. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 401, 123342	12.8	83
131	Water-based hybrid coatings toward mechanically flexible, super-hydrophobic and flame-retardant polyurethane foam nanocomposites with high-efficiency and reliable fire alarm response. <i>Composites Part B: Engineering</i> , <b>2020</b> , 193, 108017	10	80
130	Fabrication of multifunctional graphene decorated with bromine and nano-Sb2O3 towards high-performance polymer nanocomposites. <i>Carbon</i> , <b>2016</b> , 98, 689-701	10.4	79

129	CoreBhell Bioderived Flame Retardants Based on Chitosan/Alginate Coated Ammonia Polyphosphate for Enhancing Flame Retardancy of Polylactic Acid. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 6402-6412	8.3	78
128	Bioinspired, Highly Adhesive, Nanostructured Polymeric Coatings for Superhydrophobic Fire-Extinguishing Thermal Insulation Foam. <i>ACS Nano</i> , <b>2021</b> ,	16.7	75
127	Mechanically Robust, Flame-Retardant Poly(lactic acid) Biocomposites via Combining Cellulose Nanofibers and Ammonium Polyphosphate. <i>ACS Omega</i> , <b>2018</b> , 3, 5615-5626	3.9	74
126	Permeability, Viscoelasticity, and Flammability Performances and Their Relationship to Polymer Nanocomposites. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 7255-7263	3.9	72
125	Effects of metal chelates on a novel oligomeric intumescent flame retardant system for polypropylene. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2008</b> , 82, 286-291	6	72
124	Polypropylene nanocomposites based on C60-decorated carbon nanotubes: thermal properties, flammability, and mechanical properties. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 7782		69
123	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
122	Synthesis of a novel oligomeric intumescent flame retardant and its application in polypropylene. <i>Polymer Engineering and Science</i> , <b>2009</b> , 49, 1326-1331	2.3	67
121	Lignin-Derived Porous Carbon Loaded with La(OH)3 Nanorods for Highly Efficient Removal of Phosphate. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 758-768	8.3	66
120	2D-alumina platelets enhance mechanical and abrasion properties of PA612 via interfacial hydrogen-bond interactions. <i>Chemical Engineering Journal</i> , <b>2017</b> , 308, 760-771	14.7	65
119	Flame retardant mechanism of organo-bentonite in polypropylene. Applied Clay Science, 2009, 45, 178-	1842	65
118	Functionalizing graphene decorated with phosphorus-nitrogen containing dendrimer for high-performance polymer nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2016</b> , 86, 9-18	8.4	64
117	Epoxy nanocomposites simultaneously strengthened and toughened by hybridization with graphene oxide and block ionomer. <i>Composites Science and Technology</i> , <b>2018</b> , 168, 363-370	8.6	64
116	Flame retardant and mechanically tough poly(lactic acid) biocomposites via combining ammonia polyphosphate and polyethylene glycol. <i>Composites Communications</i> , <b>2017</b> , 6, 1-5	6.7	63
115	Bioinspired strategy for tuning thermal stability of PVA via hydrogen-bond crosslink. <i>Composites Science and Technology</i> , <b>2015</b> , 118, 16-22	8.6	62
114	Striking multiple synergies created by combining reduced graphene oxides and carbon nanotubes for polymer nanocomposites. <i>Nanotechnology</i> , <b>2013</b> , 24, 125704	3.4	62
113	Effects of reactive compatibilization on the morphological, thermal, mechanical, and rheological properties of intumescent flame-retardant polypropylene. <i>ACS Applied Materials &amp; Document Company</i> , 1, 452-9	9.5	62
112	Fabrication of fullerene-decorated carbon nanotubes and their application in flame-retarding polypropylene. <i>Nanoscale</i> , <b>2009</b> , 1, 118-21	7.7	60

111	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
110	Flame retarded polymer nanocomposites: Development, trend and future perspective. <i>Science China Chemistry</i> , <b>2011</b> , 54, 302-313	7.9	55
109	Effects of carbon nanotubes and its functionalization on the thermal and flammability properties of polypropylene/wood flour composites. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 3520-3528	4.3	55
108	Thermal degradation and flame retardancy of polypropylene/C60 nanocomposites. <i>Thermochimica Acta</i> , <b>2008</b> , 473, 106-108	2.9	54
107	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
106	Largely enhanced thermal and mechanical properties of polymer nanocomposites via incorporating C60@graphene nanocarbon hybrid. <i>Nanotechnology</i> , <b>2013</b> , 24, 505706	3.4	52
105	Toward Fully Bio-based and Supertough PLA Blends via in Situ Formation of Cross-Linked Biopolyamide Continuity Network. <i>Macromolecules</i> , <b>2019</b> , 52, 8415-8429	5.5	51
104	Grafting Lignin with Bioderived Polyacrylates for Low-Cost, Ductile, and Fully Biobased Poly(lactic acid) Composites. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 2267-2276	8.3	51
103	One-pot scalable fabrication of an oligomeric phosphoramide towards high-performance flame retardant polylactic acid with a submicron-grained structure. <i>Composites Part B: Engineering</i> , <b>2020</b> , 183, 107695	10	51
102	Manipulating interphase reactions for mechanically robust, flame-retardant and sustainable polylactide biocomposites. <i>Composites Part B: Engineering</i> , <b>2020</b> , 190, 107930	10	47
101	Enhanced mechanical property and flame resistance of graphene oxide nanocomposite paper modified with functionalized silica nanoparticles. <i>Composites Part B: Engineering</i> , <b>2019</b> , 177, 107347	10	46
100	Design of orderly carbon coatings for SiO anodes promoted by TiO2 toward high performance lithium-ion battery. <i>Chemical Engineering Journal</i> , <b>2018</b> , 338, 488-495	14.7	46
99	Multifunctional graphene-based nano-additives toward high-performance polymer nanocomposites with enhanced mechanical, thermal, flame retardancy and smoke suppressive properties. <i>Chemical Engineering Journal</i> , <b>2021</b> , 410, 127590	14.7	46
98	A Liquid Phosphaphenanthrene-Derived Imidazole for Improved Flame Retardancy and Smoke Suppression of Epoxy Resin. <i>ACS Applied Polymer Materials</i> , <b>2020</b> , 2, 3566-3575	4.3	43
97	Functionalizing MXene towards highly stretchable, ultratough, fatigue- and fire-resistant polymer nanocomposites. <i>Chemical Engineering Journal</i> , <b>2021</b> , 424, 130338	14.7	43
96	Morphological structure and mechanical properties of epoxy/polysulfone/cellulose nanofiber ternary nanocomposites. <i>Composites Science and Technology</i> , <b>2015</b> , 115, 66-71	8.6	42
95	Graft Polymerization of Acrylic Monomers onto Lignin with CaCl2H2O2 as Initiator: Preparation, Mechanism, Characterization, and Application in Poly(lactic acid). <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 337-348	8.3	41
94	Coralloid-like Nanostructured c-nSi/SiO@C Anodes for High Performance Lithium Ion Battery. <i>ACS Applied Materials &amp; Diterfaces</i> , <b>2017</b> , 9, 28464-28472	9.5	41

93	Catalytic Effects of Nickel (Cobalt or Zinc) Acetates on Thermal and Flammability Properties of Polypropylene-Modified Lignin Composites. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 12367-12374	3.9	40
92	Morphology, healing and mechanical performance of nanofibrillated cellulose reinforced poly(Haprolactone)/epoxy composites. <i>Composites Science and Technology</i> , <b>2016</b> , 125, 62-70	8.6	39
91	A novel zinc chelate complex containing both phosphorus and nitrogen for improving the flame retardancy of low density polyethylene. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2011</b> , 92, 339-346	6	38
90	Thermally stable, conductive and flame-retardant nylon 612 composites created by adding two-dimensional alumina platelets. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2017</b> , 97, 100	)- <sup>8</sup> 10	36
89	One-step and green synthesis of lightweight, mechanically flexible and flame-retardant polydimethylsiloxane foam nanocomposites via surface-assembling ultralow content of graphene derivative. <i>Chemical Engineering Journal</i> , <b>2020</b> , 393, 124724	14.7	36
88	Polylactide/hemp hurd biocomposites as sustainable 3D printing feedstock. <i>Composites Science and Technology</i> , <b>2019</b> , 184, 107887	8.6	36
87	Molecularly Engineered Lignin-Derived Additives Enable Fire-Retardant, UV-Shielding, and Mechanically Strong Polylactide Biocomposites. <i>Biomacromolecules</i> , <b>2021</b> , 22, 1432-1444	6.9	35
86	Thermal degradation and flammability properties of HDPE/EVA/C60 nanocomposites. <i>Thermochimica Acta</i> , <b>2010</b> , 506, 98-101	2.9	33
85	A facile method to improve thermal stability and flame retardancy of polyamide 6. <i>Composites Communications</i> , <b>2019</b> , 13, 143-150	6.7	31
84	Effect of Lignin Incorporation and Reactive Compatibilization on the Morphological, Rheological, and Mechanical Properties of ABS Resin. <i>Journal of Macromolecular Science - Physics</i> , <b>2012</b> , 51, 720-735	1.4	31
83	One-Pot, Solvent- and Catalyst-Free Synthesis of Polyphosphoramide as an Eco-Benign and Effective Flame Retardant for Poly(lactic acid). <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 166	12÷166	23 <sup>1</sup>
82	Lightweight high-performance carbon-polymer nanocomposites for electromagnetic interference shielding. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2021</b> , 145, 106376	8.4	30
81	Facile and green fabrication of flame-retardant Ti3C2Tx MXene networks for ultrafast, reusable and weather-resistant fire warning. <i>Chemical Engineering Journal</i> , <b>2022</b> , 427, 131615	14.7	30
80	Facile fabrication of HDPE-g-MA/nanodiamond nanocomposites via one-step reactive blending. <i>Nanoscale Research Letters</i> , <b>2012</b> , 7, 355	5	28
79	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
78	Highly transparent, healable, and durable anti-fogging coating by combining hydrophilic pectin and tannic acid with poly(ethylene terephthalate). <i>Green Chemistry</i> , <b>2019</b> , 21, 5405-5413	10	26
77	A novel strategy for enhancing the flame resistance, dynamic mechanical and the thermal degradation properties of epoxy nanocomposites. <i>Materials Research Express</i> , <b>2019</b> , 6, 125003	1.7	26
76	A Durable, Flexible, Large-Area, Flame-Retardant, Early Fire Warning Sensor with Built-In Patterned Electrodes <i>Small Methods</i> , <b>2021</b> , 5, e2001040	12.8	26

## (2020-2019)

75	All-Organic Multilayer Coatings for Advanced Poly(lactic acid) Films with High Oxygen Barrier and Excellent Antifogging Properties. <i>ACS Applied Polymer Materials</i> , <b>2019</b> , 1, 3470-3476	4.3	25
74	High-pressure steam: A facile strategy for the scalable fabrication of flattened bamboo biomass. <i>Industrial Crops and Products</i> , <b>2019</b> , 129, 97-104	5.9	25
73	Stretchable strain sensors with dentate groove structure for enhanced sensing recoverability. <i>Composites Part B: Engineering</i> , <b>2021</b> , 211, 108641	10	24
7 <del>2</del>	A Reactive Copper-Organophosphate-MXene Heterostructure Enabled Antibacterial, Self-Extinguishing and Mechanically Robust Polymer Nanocomposites. <i>Chemical Engineering Journal</i> , <b>2021</b> , 430, 132712	14.7	24
71	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
70	Highly Flexible Multilayered e-Skins for Thermal-Magnetic-Mechanical Triple Sensors and Intelligent Grippers. <i>ACS Applied Materials &amp; Samp; Interfaces</i> , <b>2020</b> , 12, 15675-15685	9.5	21
69	Polypropylene/clay nanocomposites prepared by in situ grafting-melt intercalation with a novel cointercalating monomer. <i>Journal of Applied Polymer Science</i> , <b>2008</b> , 110, 616-623	2.9	21
68	Multifunctional polyurethane sponge coatings with excellent flame retardant, antibacterial, compressible, and recyclable properties. <i>Composites Part B: Engineering</i> , <b>2021</b> , 215, 108785	10	21
67	Facile fabrication of hydrolysis resistant phosphite antioxidants for high-performance optical PET films via in situ incorporation. <i>Chemical Engineering Journal</i> , <b>2017</b> , 328, 406-416	14.7	20
66	Dynamic Nanoconfinement Enabled Highly Stretchable and Supratough Polymeric Materials with Desirable Healability and Biocompatibility. <i>Advanced Materials</i> , <b>2021</b> , e2105829	24	20
65	A lava-inspired micro/nano-structured ceramifiable organic-inorganic hybrid fire-extinguishing coating. <i>Matter</i> , <b>2022</b> ,	12.7	19
64	Fabrication of Nitrogen-Doped Graphene Decorated with Organophosphor and Lanthanum toward High-Performance ABS Nanocomposites. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 3204-3213	5.6	18
63	Electrochemically Stable Cobalt?Zinc Mixed Oxide/Hydroxide Hierarchical Porous Film Electrode for High-Performance Asymmetric Supercapacitor. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	17
62	Fully Biobased Surface-Functionalized Microcrystalline Cellulose via Green Self-Assembly toward Fire-Retardant, Strong, and Tough Epoxy Biocomposites. <i>ACS Sustainable Chemistry and Engineering</i> ,	8.3	17
61	Water governs the mechanical properties of poly(vinyl alcohol). <i>Polymer</i> , <b>2021</b> , 213, 123330	3.9	16
60	Bacteria-Triggered pH-Responsive Osteopotentiating Coating on 3D-Printed Polyetheretherketone Scaffolds for Infective Bone Defect Repair. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 12123-12135	3.9	15
59	Surface-initiated graft polymerization on multiwalled carbon nanotubes pretreated by corona discharge at atmospheric pressure. <i>Nanoscale</i> , <b>2010</b> , 2, 389-93	7.7	15
58	Enhanced toughness of PLLA/PCL blends using poly(d-lactide)-poly(Etaprolactone)-poly(d-lactide) as compatibilizer. <i>Composites Communications</i> , <b>2020</b> , 21, 100385	6.7	14

57	Fire-safe, mechanically strong and tough thermoplastic Polyurethane/MXene nanocomposites with exceptional smoke suppression. <i>Materials Today Physics</i> , <b>2022</b> , 22, 100607	8	14
56	Scalable, Robust, Low-Cost, and Highly Thermally Conductive Anisotropic Nanocomposite Films for Safe and Efficient Thermal Management. <i>Advanced Functional Materials</i> ,2110782	15.6	14
55	Mechanically robust and flame-retardant polylactide composites based on molecularly-engineered polyphosphoramides. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2021</b> , 144, 106317	8.4	14
54	Preparation of TiO/cellulose nanocomposites as antibacterial bio-adsorbents for effective phosphate removal from aqueous medium. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 182, 434-444	7.9	14
53	Mechanically Strong, Thermally Healable, and Recyclable Epoxy Vitrimers Enabled by ZnAl-Layer Double Hydroxides. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 2580-2590	8.3	14
52	Bio-inspired, sustainable and mechanically robust graphene oxide-based hybrid networks for efficient fire protection and warning. <i>Chemical Engineering Journal</i> , <b>2022</b> , 134516	14.7	13
51	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
50	Flexible and flame-retarding phosphorylated MXene/polypropylene composites for efficient electromagnetic interference shielding. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 111, 66-66	9.1	13
49	Mechanical and thermal properties of PEEK composites by incorporating inorganic particles modified phosphates. <i>Composites Part B: Engineering</i> , <b>2021</b> , 212, 108715	10	13
48	Lightweight, amphipathic and fire-resistant prGO/MXene spherical beads for rapid elimination of hazardous chemicals. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 423, 127069	12.8	13
47	Physical wrapping of reduced graphene oxide sheets by polyethylene wax and its modification on the mechanical properties of polyethylene. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 126, 1546-1555	2.9	12
46	Fire-retardant unsaturated polyester thermosets: The state-of-the-art, challenges and opportunities. <i>Chemical Engineering Journal</i> , <b>2022</b> , 430, 132785	14.7	12
45	Strong, Ultrafast, Reprogrammable Hydrogel Actuators with Muscle-Mimetic Aligned Fibrous Structures. <i>Chemistry of Materials</i> ,	9.6	12
44	Engineering Interfaces toward High-Performance Polypropylene/Coir Fiber Biocomposites with Enhanced Friction and Wear Behavior. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 18453-18462	8.3	11
43	Improved Mechanical and Thermal Properties of Polypropylene Blends Based on Diethanolamine-Plasticized Corn Starch via in Situ Reactive Compatibilization. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 16232-16238	3.9	11
42	Highly Stretchable, Ultratough, and Strong Polyesters with Improved Postcrystallization Optical Property Enabled by Dynamic Multiple Hydrogen Bonds. <i>Macromolecules</i> , <b>2021</b> , 54, 1254-1266	5.5	11
41	Facile Fabrication of Polyolefin/Carbon Nanotube Composites via in Situ Friedel@rafts Polyalkylation: Structure and Properties. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 143	8 <sup>3</sup> 4 <sup>9</sup> 143	395
40	Strong, tough and healable elastomer nanocomposites enabled by a hydrogen-bonded supramolecular network. <i>Composites Communications</i> , <b>2020</b> , 22, 100530	6.7	10

## (2021-2019)

39	Probing Chemical Changes in Holocellulose and Lignin of Timbers in Ancient Buildings. <i>Polymers</i> , <b>2019</b> , 11,	4.5	9
38	Fabrication of flame retardant benzoxazine semi-biocomposites reinforced by ramie fabrics with bio-based flame retardant coating. <i>Polymer Composites</i> , <b>2018</b> , 39, E480-E488	3	9
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