

Pingan Song

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

164
papers

7,829
citations

55
h-index

83
g-index

175
ext. papers

11,096
ext. citations

9.1
avg, IF

6.87
L-index

#	Paper	IF	Citations
164	A lava-inspired micro/nano-structured ceramifiable organic-inorganic hybrid fire-extinguishing coating. <i>Matter</i> , 2022 ,	12.7	19
163	Fire-safe, mechanically strong and tough thermoplastic Polyurethane/MXene nanocomposites with exceptional smoke suppression. <i>Materials Today Physics</i> , 2022 , 22, 100607	8	14
162	Bio-inspired, sustainable and mechanically robust graphene oxide-based hybrid networks for efficient fire protection and warning. <i>Chemical Engineering Journal</i> , 2022 , 134516	14.7	13
161	P, N-decorated halloysite nanotubes for flame retardancy enhancement of polyamide 6/aluminum diethylphosphinate. <i>Polymer Degradation and Stability</i> , 2022 , 196, 109847	4.7	2
160	A hyperbranched P/N/B-containing oligomer as multifunctional flame retardant for epoxy resins. <i>Composites Part B: Engineering</i> , 2022 , 234, 109701	10	13
159	Silicone/graphene oxide co-cross-linked aerogels with wide-temperature mechanical flexibility, super-hydrophobicity and flame resistance for exceptional thermal insulation and oil/water separation. <i>Journal of Materials Science and Technology</i> , 2022 , 114, 131-142	9.1	9
158	The concept of light-harvesting, self-powered mechanical sensors using a monolithic structure. <i>Nano Energy</i> , 2022 , 107030	17.1	0
157	A highly fire-retardant rigid polyurethane foam capable of fire-warning. <i>Composites Communications</i> , 2022 , 29, 101046	6.7	8
156	Interface nanoengineering of a core-shell structured biobased fire retardant for fire-retarding polylactide with enhanced toughness and UV protection. <i>Journal of Cleaner Production</i> , 2022 , 336, 130372 ^{10.3}	10.3	4
155	A Si-containing polyphosphoramidate via green chemistry for fire-retardant polylactide with well-preserved mechanical and transparent properties. <i>Chemical Engineering Journal</i> , 2022 , 431, 134259 ^{14.7}	14.7	7
154	Recent advances in fire-retardant rigid polyurethane foam. <i>Journal of Materials Science and Technology</i> , 2022 , 112, 315-328	9.1	6
153	Effects of BN/GO on the recyclable, healable and thermal conductivity properties of ENR/PLA thermoplastic vulcanizates. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022 , 152, 106686	8.4	4
152	Fire-retardant unsaturated polyester thermosets: The state-of-the-art, challenges and opportunities. <i>Chemical Engineering Journal</i> , 2022 , 430, 132785	14.7	12
151	Flame-retardant, transparent, mechanically-strong and tough epoxy resin enabled by high-efficiency multifunctional boron-based polyphosphonamide. <i>Chemical Engineering Journal</i> , 2022 , 427, 131578	14.7	27
150	Lightweight, amphiphilic and fire-resistant prGO/MXene spherical beads for rapid elimination of hazardous chemicals. <i>Journal of Hazardous Materials</i> , 2022 , 423, 127069	12.8	13
149	Facile and green fabrication of flame-retardant Ti3C2Tx MXene networks for ultrafast, reusable and weather-resistant fire warning. <i>Chemical Engineering Journal</i> , 2022 , 427, 131615	14.7	30
148	Governing effects of melt viscosity on fire performances of polylactide and its fire-retardant systems.. <i>IScience</i> , 2022 , 25, 103950	6.1	2

147	Fire Intumescent, High-Temperature Resistant, Mechanically Flexible Graphene Oxide Network for Exceptional Fire Shielding and Ultra-Fast Fire Warning.. <i>Nano-Micro Letters</i> , 2022 , 14, 92	19.5	9
146	Flexible pressure sensors via engineering microstructures for wearable human-machine interaction and health monitoring applications.. <i>IScience</i> , 2022 , 25, 104148	6.1	6
145	Small multiamine molecule enabled fire-retardant polymeric materials with enhanced strength, toughness, and self-healing properties. <i>Chemical Engineering Journal</i> , 2022 , 440, 135645	14.7	5
144	Strong and fast hydrogel actuators.. <i>Science</i> , 2022 , 376, 245	33.3	4
143	Processing, thermal conductivity and flame retardant properties of silicone rubber filled with different geometries of thermally conductive fillers: A comparative study. <i>Composites Part B: Engineering</i> , 2022 , 238, 109907	10	8
142	Green and Facile Synthesis of Bio-Based, Flame-Retardant, Latent Imidazole Curing Agent for Single-Component Epoxy Resin. <i>ACS Applied Polymer Materials</i> , 2022 , 4, 3564-3574	4.3	4
141	Sulfonated Block Ionomers Enable Transparent, Fire-Resistant, Tough yet Strong Polycarbonate. <i>Chemical Engineering Journal</i> , 2021 , 133264	14.7	5
140	Advances and challenges in eco-benign fire-retardant polylactide. <i>Materials Today Physics</i> , 2021 , 21, 100568	5.6	7
139	Flexible and flame-retarding phosphorylated MXene/polypropylene composites for efficient electromagnetic interference shielding. <i>Journal of Materials Science and Technology</i> , 2021 , 111, 66-66	9.1	13
138	Dynamic Nanoconfinement Enabled Highly Stretchable and Supratough Polymeric Materials with Desirable Healability and Biocompatibility. <i>Advanced Materials</i> , 2021 , e2105829	24	20
137	Bioinspired, Strong, and Tough Nanostructured Poly(vinyl alcohol)/Inositol Composites: How Hydrogen-Bond Cross-Linking Works?. <i>Macromolecules</i> , 2021 , 54, 9510-9521	5.5	5
136	Structure, chain dynamics and mechanical properties of poly(vinyl alcohol)/phytic acid composites. <i>Composites Communications</i> , 2021 , 28, 100970	6.7	4
135	Phosphorus-containing flame retardant epoxy thermosets: Recent advances and future perspectives. <i>Progress in Polymer Science</i> , 2021 , 114, 101366	29.6	129
134	Insights into the hydrogen-bond cross-linking effects of small multiamine molecules on physical and mechanical properties of poly(vinly alcohol) by molecular dynamics simulations. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2021 , 29, 035012	2	5
133	Stretchable strain sensors with dentate groove structure for enhanced sensing recoverability. <i>Composites Part B: Engineering</i> , 2021 , 211, 108641	10	24
132	Transparent, highly thermostable and flame retardant polycarbonate enabled by rod-like phosphorous-containing metal complex aggregates. <i>Chemical Engineering Journal</i> , 2021 , 409, 128223	14.7	54
131	Back Cover: A Durable, Flexible, Large-Area, Flame-Retardant, Early Fire Warning Sensor with Built-In Patterned Electrodes (Small Methods 4/2021). <i>Small Methods</i> , 2021 , 5, 2170016	12.8	
130	A molecularly engineered bioderived polyphosphate for enhanced flame retardant, UV-blocking and mechanical properties of poly(lactic acid). <i>Chemical Engineering Journal</i> , 2021 , 411, 128493	14.7	56

129	Mechanically robust and flame-retardant polylactide composites based on molecularly-engineered polyphosphoramides. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021 , 144, 106317	8.4	14
128	Mechanical and thermal properties of PEEK composites by incorporating inorganic particles modified phosphates. <i>Composites Part B: Engineering</i> , 2021 , 212, 108715	10	13
127	Multifunctional polyurethane sponge coatings with excellent flame retardant, antibacterial, compressible, and recyclable properties. <i>Composites Part B: Engineering</i> , 2021 , 215, 108785	10	21
126	Lightweight high-performance carbon-polymer nanocomposites for electromagnetic interference shielding. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021 , 145, 106376	8.4	30
125	Bioinspired, Highly Adhesive, Nanostructured Polymeric Coatings for Superhydrophobic Fire-Extinguishing Thermal Insulation Foam. <i>ACS Nano</i> , 2021 ,	16.7	75
124	Preparation of TiO/cellulose nanocomposites as antibacterial bio-adsorbents for effective phosphate removal from aqueous medium. <i>International Journal of Biological Macromolecules</i> , 2021 , 182, 434-444	7.9	14
123	Engineering MXene surface with POSS for reducing fire hazards of polystyrene with enhanced thermal stability. <i>Journal of Hazardous Materials</i> , 2021 , 401, 123342	12.8	83
122	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> , 2021 , 410, 127590	14.7	46
121	Nacre-bionic nanocomposite membrane for efficient in-plane dissipation heat harvest under high temperature. <i>Journal of Materiomics</i> , 2021 , 7, 219-225	6.7	6
120	Recent advances in polysaccharide-based carbon aerogels for environmental remediation and sustainable energy. <i>Sustainable Materials and Technologies</i> , 2021 , 27, e00240	5.3	4
119	Water governs the mechanical properties of poly(vinyl alcohol). <i>Polymer</i> , 2021 , 213, 123330	3.9	16
118	A Durable, Flexible, Large-Area, Flame-Retardant, Early Fire Warning Sensor with Built-In Patterned Electrodes.. <i>Small Methods</i> , 2021 , 5, e2001040	12.8	26
117	Highly Stretchable, Ultratough, and Strong Polyesters with Improved Postcrystallization Optical Property Enabled by Dynamic Multiple Hydrogen Bonds. <i>Macromolecules</i> , 2021 , 54, 1254-1266	5.5	11
116	Mechanically Strong, Thermally Healable, and Recyclable Epoxy Vitrimers Enabled by ZnAl-Layer Double Hydroxides. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 2580-2590	8.3	14
115	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> , 2021 , 207, 108601	10	69
114	Molecularly Engineered Lignin-Derived Additives Enable Fire-Retardant, UV-Shielding, and Mechanically Strong Polylactide Biocomposites. <i>Biomacromolecules</i> , 2021 , 22, 1432-1444	6.9	35
113	A nano-TiO ₂ /regenerated cellulose biohybrid enables simultaneously improved strength and toughness of solid epoxy resins. <i>Composites Science and Technology</i> , 2021 , 212, 108884	8.6	8
112	High-Temperature Nitridation Induced Carbon Nanotubes@NiFe-Layered-Double-Hydroxide Nanosheets Taking as an Oxygen Evolution Reaction Electrocatalyst for CO ₂ Electroreduction. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2101165	4.6	2

111	A Reactive Copper-Organophosphate-MXene Heterostructure Enabled Antibacterial, Self-Extinguishing and Mechanically Robust Polymer Nanocomposites. <i>Chemical Engineering Journal</i> , 2021 , 430, 132712	14.7	24
110	Functionalizing MXene towards highly stretchable, ultratough, fatigue- and fire-resistant polymer nanocomposites. <i>Chemical Engineering Journal</i> , 2021 , 424, 130338	14.7	43
109	Polyphosphoramidate-intercalated MXene for simultaneously enhancing thermal stability, flame retardancy and mechanical properties of polylactide. <i>Chemical Engineering Journal</i> , 2020 , 397, 125336	14.7	112
108	Interface engineering of MXene towards super-tough and strong polymer nanocomposites with high ductility and excellent fire safety. <i>Chemical Engineering Journal</i> , 2020 , 399, 125829	14.7	128
107	Synthesis and Properties Investigation of Thiophene-aromatic Polyesters: Potential Alternatives for the 2,5-Furandicarboxylic Acid-based Ones. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2020 , 38, 1082-1091	3.5	7
106	Nickel ammonium phosphate and reduced graphene oxide two-dimensional hybrid material for improving the fire safety and mechanical properties of poly(vinyl chloride). <i>Polymer International</i> , 2020 , 69, 1227-1236	3.3	2
105	Enhanced toughness of PLLA/PCL blends using poly(d-lactide)-poly(ε-caprolactone)-poly(d-lactide) as compatibilizer. <i>Composites Communications</i> , 2020 , 21, 100385	6.7	14
104	Bacteria-Triggered pH-Responsive Osteopotentiating Coating on 3D-Printed Polyetheretherketone Scaffolds for Infective Bone Defect Repair. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 12123-12135	3.9	15
103	Manipulating interphase reactions for mechanically robust, flame-retardant and sustainable polylactide biocomposites. <i>Composites Part B: Engineering</i> , 2020 , 190, 107930	10	47
102	Highly Flexible Multilayered e-Skins for Thermal-Magnetic-Mechanical Triple Sensors and Intelligent Grippers. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 15675-15685	9.5	21
101	Core-Shell Bioderived Flame Retardants Based on Chitosan/Alginate Coated Ammonia Polyphosphate for Enhancing Flame Retardancy of Polylactic Acid. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 6402-6412	8.3	78
100	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> , 2020 , 393, 124724	14.7	36
99	Lignin-derived bio-based flame retardants toward high-performance sustainable polymeric materials. <i>Green Chemistry</i> , 2020 , 22, 2129-2161	10	113
98	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> , 2020 , 193, 108017	10	80
97	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> , 2020 , 197, 108064	10	23
96	Flame retardant polymeric nanocomposites through the combination of nanomaterials and conventional flame retardants. <i>Progress in Materials Science</i> , 2020 , 114, 100687	42.2	179
95	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> , 2020 , 386, 121984	12.8	155
94	Grafting Lignin with Bioderived Polyacrylates for Low-Cost, Ductile, and Fully Biobased Poly(lactic acid) Composites. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 2267-2276	8.3	51

93	One-pot scalable fabrication of an oligomeric phosphoramidate towards high-performance flame retardant polylactic acid with a submicron-grained structure. <i>Composites Part B: Engineering</i> , 2020 , 183, 107695	10	51
92	A bio-based ionic complex with different oxidation states of phosphorus for reducing flammability and smoke release of epoxy resins. <i>Composites Communications</i> , 2020 , 17, 104-108	6.7	92
91	Strong, tough and healable elastomer nanocomposites enabled by a hydrogen-bonded supramolecular network. <i>Composites Communications</i> , 2020 , 22, 100530	6.7	10
90	One-Pot, Solvent- and Catalyst-Free Synthesis of Polyphosphoramidate as an Eco-Benign and Effective Flame Retardant for Poly(lactic acid). <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 16612-16623 ¹	8.3	31
89	A Liquid Phosphaphenanthrene-Derived Imidazole for Improved Flame Retardancy and Smoke Suppression of Epoxy Resin. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 3566-3575	4.3	43
88	Integrated Structure of Tin-Based Anodes Enhancing High Power Density and Long Cycle Life for Lithium Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 9337-9347	6.1	3
87	High-Performance Polymeric Materials through Hydrogen-Bond Cross-Linking. <i>Advanced Materials</i> , 2020 , 32, e1901244	24	121
86	Highly transparent, healable, and durable anti-fogging coating by combining hydrophilic pectin and tannic acid with poly(ethylene terephthalate). <i>Green Chemistry</i> , 2019 , 21, 5405-5413	10	26
85	Enhanced mechanical property and flame resistance of graphene oxide nanocomposite paper modified with functionalized silica nanoparticles. <i>Composites Part B: Engineering</i> , 2019 , 177, 107347	10	46
84	Realizing simultaneous improvements in mechanical strength, flame retardancy and smoke suppression of ABS nanocomposites from multifunctional graphene. <i>Composites Part B: Engineering</i> , 2019 , 177, 107377	10	83
83	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> , 2019 , 165, 406-416	10	219
82	A facile method to improve thermal stability and flame retardancy of polyamide 6. <i>Composites Communications</i> , 2019 , 13, 143-150	6.7	31
81	Lightweight, Superelastic Yet Thermoconductive Boron Nitride Nanocomposite Aerogel for Thermal Energy Regulation. <i>ACS Nano</i> , 2019 , 13, 7860-7870	16.7	90
80	Probing Chemical Changes in Holocellulose and Lignin of Timbers in Ancient Buildings. <i>Polymers</i> , 2019 , 11,	4.5	9
79	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> , 2019 , 170, 41-50	10	84
78	Electrochemically Stable Cobalt/Zinc Mixed Oxide/Hydroxide Hierarchical Porous Film Electrode for High-Performance Asymmetric Supercapacitor. <i>Nanomaterials</i> , 2019 , 9,	5.4	17
77	Green and Scalable Fabrication of Core/Shell Biobased Flame Retardants for Reducing Flammability of Polylactic Acid. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 8954-8963	8.3	106
76	Surface-coating engineering for flame retardant flexible polyurethane foams: A critical review. <i>Composites Part B: Engineering</i> , 2019 , 176, 107185	10	103

75	Strengthening, toughening and thermally stable ultra-thin MXene nanosheets/polypropylene nanocomposites via nanoconfinement. <i>Chemical Engineering Journal</i> , 2019 , 378, 122267	14.7	140
74	Toward Fully Bio-based and Supertough PLA Blends via in Situ Formation of Cross-Linked Biopolyamide Continuity Network. <i>Macromolecules</i> , 2019 , 52, 8415-8429	5.5	51
73	All-Organic Multilayer Coatings for Advanced Poly(lactic acid) Films with High Oxygen Barrier and Excellent Antifogging Properties. <i>ACS Applied Polymer Materials</i> , 2019 , 1, 3470-3476	4.3	25
72	Polylactide/hemp hurd biocomposites as sustainable 3D printing feedstock. <i>Composites Science and Technology</i> , 2019 , 184, 107887	8.6	36
71	Mechanically robust and abrasion-resistant polymer nanocomposites for potential applications as advanced clearance joints. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019 , 126, 105607	8.4	8
70	Engineering Interfaces toward High-Performance Polypropylene/Coir Fiber Biocomposites with Enhanced Friction and Wear Behavior. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 18453-18462	8.3	11
69	A novel strategy for enhancing the flame resistance, dynamic mechanical and the thermal degradation properties of epoxy nanocomposites. <i>Materials Research Express</i> , 2019 , 6, 125003	1.7	26
68	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> , 2019 , 57, 157-165	17.1	108
67	Lignin-Derived Porous Carbon Loaded with La(OH) ₃ Nanorods for Highly Efficient Removal of Phosphate. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 758-768	8.3	66
66	High-pressure steam: A facile strategy for the scalable fabrication of flattened bamboo biomass. <i>Industrial Crops and Products</i> , 2019 , 129, 97-104	5.9	25
65	A lignin-based nano-adsorbent for superfast and highly selective removal of phosphate. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 9971-9983	13	98
64	Design of orderly carbon coatings for SiO anodes promoted by TiO ₂ toward high performance lithium-ion battery. <i>Chemical Engineering Journal</i> , 2018 , 338, 488-495	14.7	46
63	Fabrication of flame retardant benzoxazine semi-biocomposites reinforced by ramie fabrics with bio-based flame retardant coating. <i>Polymer Composites</i> , 2018 , 39, E480-E488	3	9
62	Graft Polymerization of Acrylic Monomers onto Lignin with CaCl ₂ ·2H ₂ O as Initiator: Preparation, Mechanism, Characterization, and Application in Poly(lactic acid). <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 337-348	8.3	41
61	A facile way to prepare phosphorus-nitrogen-functionalized graphene oxide for enhancing the flame retardancy of epoxy resin. <i>Composites Communications</i> , 2018 , 10, 97-102	6.7	83
60	Fabrication of Nitrogen-Doped Graphene Decorated with Organophosphor and Lanthanum toward High-Performance ABS Nanocomposites. <i>ACS Applied Nano Materials</i> , 2018 , 1, 3204-3213	5.6	18
59	Epoxy nanocomposites simultaneously strengthened and toughened by hybridization with graphene oxide and block ionomer. <i>Composites Science and Technology</i> , 2018 , 168, 363-370	8.6	64
58	Bioinspired Design of Strong, Tough, and Thermally Stable Polymeric Materials via Nanoconfinement. <i>ACS Nano</i> , 2018 , 12, 9266-9278	16.7	108

57	Mechanically Robust, Flame-Retardant Poly(lactic acid) Biocomposites via Combining Cellulose Nanofibers and Ammonium Polyphosphate. <i>ACS Omega</i> , 2018 , 3, 5615-5626	3.9	74
56	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> , 2017 , 97, 100-110	8.4	36
55	Granular Nanostructure: A Facile Biomimetic Strategy for the Design of Supertough Polymeric Materials with High Ductility and Strength. <i>Advanced Materials</i> , 2017 , 29, 1704661	24	105
54	Facile fabrication of hydrolysis resistant phosphite antioxidants for high-performance optical PET films via in situ incorporation. <i>Chemical Engineering Journal</i> , 2017 , 328, 406-416	14.7	20
53	Fire-Resistant, Strong, and Green Polymer Nanocomposites Based on Poly(lactic acid) and Core-shell Nanofibrous Flame Retardants. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 7894-7904	8.3	105
52	Flame retardant and mechanically tough poly(lactic acid) biocomposites via combining ammonia polyphosphate and polyethylene glycol. <i>Composites Communications</i> , 2017 , 6, 1-5	6.7	63
51	Coralloid-like Nanostructured c-nSi/SiO@C Anodes for High Performance Lithium Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 28464-28472	9.5	41
50	Super-tough artificial nacre based on graphene oxide via synergistic interface interactions of π stacking and hydrogen bonding. <i>Carbon</i> , 2017 , 111, 807-812	10.4	139
49	2D-alumina platelets enhance mechanical and abrasion properties of PA612 via interfacial hydrogen-bond interactions. <i>Chemical Engineering Journal</i> , 2017 , 308, 760-771	14.7	65
48	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> , 2016 , 4, 2422-2431	8.3	180
47	Evaluating the flammability performance of Portland cement-bonded particleboards with different cement/Wood ratios using a cone calorimeter. <i>Journal of Fire Sciences</i> , 2016 , 34, 199-211	1.5	8
46	Morphology, healing and mechanical performance of nanofibrillated cellulose reinforced poly(E-caprolactone)/epoxy composites. <i>Composites Science and Technology</i> , 2016 , 125, 62-70	8.6	39
45	Fabrication of multifunctional graphene decorated with bromine and nano-Sb ₂ O ₃ towards high-performance polymer nanocomposites. <i>Carbon</i> , 2016 , 98, 689-701	10.4	79
44	Effects of Two Types of Waste Wood Species on the Hydration Characteristic of Portland Cement. <i>Journal of Advanced Concrete Technology</i> , 2016 , 14, 13-20	2.3	5
43	Functionalizing graphene decorated with phosphorus-nitrogen containing dendrimer for high-performance polymer nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 86, 9-18	8.4	64
42	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> , 2016 , 4, 4732-4742	8.3	97
41	Morphological structure and mechanical properties of epoxy/polysulfone/cellulose nanofiber ternary nanocomposites. <i>Composites Science and Technology</i> , 2015 , 115, 66-71	8.6	42
40	Bioinspired strategy for tuning thermal stability of PVA via hydrogen-bond crosslink. <i>Composites Science and Technology</i> , 2015 , 118, 16-22	8.6	62

39	Bio-Inspired Hydrogen-Bond Cross-Link Strategy toward Strong and Tough Polymeric Materials. <i>Macromolecules</i> , 2015 , 48, 3957-3964	5.5	86
38	Combination effect of carbon nanotubes with graphene on intumescent flame-retardant polypropylene nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014 , 59, 18-25	8.4	142
37	Combination effects of graphene and layered double hydroxides on intumescent flame-retardant poly(methyl methacrylate) nanocomposites. <i>Applied Clay Science</i> , 2014 , 88-89, 78-85	5.2	92
36	Largely enhanced thermal and mechanical properties of polymer nanocomposites via incorporating C60@graphene nanocarbon hybrid. <i>Nanotechnology</i> , 2013 , 24, 505706	3.4	52
35	Bioinspired Strategy to Reinforce PVA with Improved Toughness and Thermal Properties via Hydrogen-Bond Self-Assembly. <i>ACS Macro Letters</i> , 2013 , 2, 1100-1104	6.6	127
34	Striking multiple synergies created by combining reduced graphene oxides and carbon nanotubes for polymer nanocomposites. <i>Nanotechnology</i> , 2013 , 24, 125704	3.4	62
33	Facile Fabrication of Polyolefin/Carbon Nanotube Composites via in Situ Friedel-Crafts Polyalkylation: Structure and Properties. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 14384-14395	3.9	10
32	Improved Mechanical and Thermal Properties of Polypropylene Blends Based on Diethanolamine-Plasticized Corn Starch via in Situ Reactive Compatibilization. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 16232-16238	3.9	11
31	Nonisothermal Crystallization Behavior of Polypropylene-C60 Nanocomposites. <i>Journal of Macromolecular Science - Physics</i> , 2013 , 52, 1591-1602	1.4	1
30	Catalytic Effects of Nickel (Cobalt or Zinc) Acetates on Thermal and Flammability Properties of Polypropylene-Modified Lignin Composites. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 12367-12374	3.9	40
29	Facile fabrication of HDPE-g-MA/nanodiamond nanocomposites via one-step reactive blending. <i>Nanoscale Research Letters</i> , 2012 , 7, 355	5	28
28	Effect of Lignin Incorporation and Reactive Compatibilization on the Morphological, Rheological, and Mechanical Properties of ABS Resin. <i>Journal of Macromolecular Science - Physics</i> , 2012 , 51, 720-735	1.4	31
27	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> , 2012 , 126, 1546-1555	2.9	12
26	Permeability, Viscoelasticity, and Flammability Performances and Their Relationship to Polymer Nanocomposites. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 7255-7263	3.9	72
25	Layered Cellulose Nanofibers Nanocomposites via Layer by Layer Assembling. <i>Advanced Materials Research</i> , 2012 , 530, 56-61	0.5	3
24	Fabrication of exfoliated graphene-based polypropylene nanocomposites with enhanced mechanical and thermal properties. <i>Polymer</i> , 2011 , 52, 4001-4010	3.9	480
23	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> , 2011 , 92, 339-346	6	38
22	Thermal degradation and flame retardancy properties of ABS/lignin: Effects of lignin content and reactive compatibilization. <i>Thermochimica Acta</i> , 2011 , 518, 59-65	2.9	89

21	Flame retarded polymer nanocomposites: Development, trend and future perspective. <i>Science China Chemistry</i> , 2011 , 54, 302-313	7.9	55
20	Synthesis, characterization, and properties of degradable poly(l-lactic acid)/poly(butylene terephthalate) copolyesters containing 1,4-cyclohexanedimethanol. <i>Journal of Applied Polymer Science</i> , 2011 , 120, 2985-2995	2.9	9
19	Polypropylene nanocomposites based on C60-decorated carbon nanotubes: thermal properties, flammability, and mechanical properties. <i>Journal of Materials Chemistry</i> , 2011 , 21, 7782		69
18	Surface-initiated graft polymerization on multiwalled carbon nanotubes pretreated by corona discharge at atmospheric pressure. <i>Nanoscale</i> , 2010 , 2, 389-93	7.7	15
17	Effects of carbon nanotubes and its functionalization on the thermal and flammability properties of polypropylene/wood flour composites. <i>Journal of Materials Science</i> , 2010 , 45, 3520-3528	4.3	55
16	Thermal degradation and flammability properties of HDPE/EVA/C60 nanocomposites. <i>Thermochimica Acta</i> , 2010 , 506, 98-101	2.9	33
15	Effects of corona discharge on the surface structure, morphology and properties of multi-walled carbon nanotubes. <i>Applied Surface Science</i> , 2010 , 256, 6447-6453	6.7	7
14	Synthesis of a novel oligomeric intumescent flame retardant and its application in polypropylene. <i>Polymer Engineering and Science</i> , 2009 , 49, 1326-1331	2.3	67
13	Effects of reactive compatibilization on the morphological, thermal, mechanical, and rheological properties of intumescent flame-retardant polypropylene. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 452-9	9.5	62
12	Flame retardant mechanism of organo-bentonite in polypropylene. <i>Applied Clay Science</i> , 2009 , 45, 178-184	4.4	65
11	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> , 2009 , 19, 1305		91
10	Fabrication of fullerene-decorated carbon nanotubes and their application in flame-retarding polypropylene. <i>Nanoscale</i> , 2009 , 1, 118-21	7.7	60
9	Flame-retardant-wrapped carbon nanotubes for simultaneously improving the flame retardancy and mechanical properties of polypropylene. <i>Journal of Materials Chemistry</i> , 2008 , 18, 5083		136
8	Polypropylene/clay nanocomposites prepared by in situ grafting-melt intercalation with a novel cointercalating monomer. <i>Journal of Applied Polymer Science</i> , 2008 , 110, 616-623	2.9	21
7	Effects of metal chelates on a novel oligomeric intumescent flame retardant system for polypropylene. <i>Journal of Analytical and Applied Pyrolysis</i> , 2008 , 82, 286-291	6	72
6	Thermal degradation and flame retardancy of polypropylene/C60 nanocomposites. <i>Thermochimica Acta</i> , 2008 , 473, 106-108	2.9	54
5	Flame retardant polymer nanocomposites with fullerenes as filler		276-313 1
4	A core-shell-structured APP@COFs hybrid for enhanced flame retardancy and mechanical property of epoxy resin (EP). <i>Advanced Composites and Hybrid Materials</i> , 1	8.7	2

3	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
2	Strong, Ultrafast, Reprogrammable Hydrogel Actuators with Muscle-Mimetic Aligned Fibrous Structures. <i>Chemistry of Materials</i> ,	9.6	12
1	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