

Yu-Zhong Wang

List of Publications by Year in Descending Order

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Version: 2024-04-26

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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.

624
papers

22,589
citations

76
h-index

107
g-index

650
ext. papers

27,079
ext. citations

6.3
avg, IF

7.51
L-index

#	Paper	IF	Citations
624	From trash to treasure: Chemical recycling and upcycling of commodity plastic waste to fuels, high-valued chemicals and advanced materials. <i>Journal of Energy Chemistry</i> , 2022 ,	12	9
623	Epoxy/iron alginate composites with improved fire resistance, smoke suppression and mechanical properties. <i>Journal of Materials Science</i> , 2022 , 57, 2567-2583	4.3	8
622	Recyclable, malleable and intrinsically flame-retardant epoxy resin with catalytic transesterification.. <i>Chemosphere</i> , 2022 , 133778	8.4	2
621	Boosting safety and performance of lithium-ion battery enabled by cooperation of thermotolerant fire-retardant composite membrane and nonflammable electrolyte. <i>Chemical Engineering Journal</i> , 2022 , 432, 134394	14.7	4
620	Simultaneous toughening and strengthening of chitin-based composites via tensile-induced orientation and hydrogen bond reconstruction. <i>Carbohydrate Polymers</i> , 2022 , 275, 118713	10.3	0
619	Flame-Retardant multifunctional epoxy resin with high performances. <i>Chemical Engineering Journal</i> , 2022 , 427, 132031	14.7	22
618	Trinity effect of potassium sulfonate-benzimidazole towards self-intumescent flame-retarded polyester with low fire hazards. <i>Chemical Engineering Journal</i> , 2022 , 429, 132121	14.7	0
617	Hierarchical TiCT@ZnO Hollow Spheres with Excellent Microwave Absorption Inspired by the Visual Phenomenon of Eyeless Urchins.. <i>Nano-Micro Letters</i> , 2022 , 14, 76	19.5	9
616	Photonic Cellulose Films with Vivid Structural Colors: Fabrication and Selectively Chemical Response.. <i>Biomacromolecules</i> , 2022 ,	6.9	2
615	Aromatic Schiff Base-Based polymeric phase change materials for Safe, Leak-Free, and efficient thermal energy management. <i>Chemical Engineering Journal</i> , 2022 , 437, 135461	14.7	2
614	A green, durable and effective flame-retardant coating for expandable polystyrene foams. <i>Chemical Engineering Journal</i> , 2022 , 440, 135807	14.7	6
613	Facile fabrication of intrinsically fire-safety epoxy resin cured with phosphorus-containing transition metal complexes for flame retardation, smoke suppression, and latent curing behavior. <i>Chemical Engineering Journal</i> , 2022 , 442, 136097	14.7	2
612	Bio-based nickel alginate toward improving fire safety and mechanical properties of epoxy resin. <i>Polymer Degradation and Stability</i> , 2022 , 109945	4.7	1
611	Flame-retardation of thermoplastic polyesters via cyclotetramerization from phthalonitrile to phthalocyanine: Pyrolysis processes and fire behaviour. <i>Polymer Degradation and Stability</i> , 2022 , 200, 109939	4.7	
610	Durable macromolecular firefighting for unsaturated polyester via integrating synergistic charring and hydrogen bond. <i>Chemical Engineering Journal</i> , 2022 , 443, 136365	14.7	3
609	Porous carbon/Fe composites from waste fabric for high-efficiency electromagnetic wave absorption. <i>Journal of Materials Science and Technology</i> , 2022 , 126, 266-274	9.1	2
608	Piperazine/Alkene-Containing Phosphoramidate Oligomer for the Intumescent Flame Retardation of EPDM Rubber. <i>Polymer Degradation and Stability</i> , 2022 , 109990	4.7	0

607	Durable flame-retardant cotton fabrics with tannic acid complexed by various metal ions. <i>Polymer Degradation and Stability</i> , 2022 , 109997	4.7	1
606	Recyclable Strong and Tough Polyamide Adhesives via Noncovalent Interactions Combined with Energy-Dissipating Soft Segments. <i>Chemical Engineering Journal</i> , 2022 , 137304	14.7	1
605	Ultra-high fire-safety unsaturated polyesters enabled by self-assembled micro/nano rod from Schiff base, diphenylphosphinyl group and nickel (II) metal. <i>Composites Part B: Engineering</i> , 2022 , 110032	10	1
604	A sponge heated by electromagnetic induction and solar energy for quick, efficient, and safe cleanup of high-viscosity crude oil spills. <i>Journal of Hazardous Materials</i> , 2022 , 129272	12.8	1
603	Flame-retardant nanocoating towards high-efficiency suppression of smoke and toxic gases for polymer foam. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022 , 159, 107021	8.4	1
602	Benzaldehyde decorated octadecylamine for tailor-made molecular firefighting and efficient thermal energy management. <i>Chemical Engineering Journal</i> , 2021 , 431, 133480	14.7	4
601	Multiscale shape-memory effects in a dynamic polymer network for synchronous changes in color and shape. <i>Applied Materials Today</i> , 2021 , 26, 101276	6.6	1
600	Advanced Flame-Retardant Methods for Polymeric Materials. <i>Advanced Materials</i> , 2021 , e2107905	24	20
599	Ultralight Biomass Aerogels with Multifunctionality and Superelasticity Under Extreme Conditions. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	4
598	Low Loading of Tannic Acid-Functionalized WS ₂ Nanosheets for Robust Epoxy Nanocomposites. <i>ACS Applied Nano Materials</i> , 2021 , 4, 10419-10429	5.6	0
597	Bio-inspired non-iridescent structural coloration enabled by self-assembled cellulose nanocrystal composite films with balanced ordered/disordered arrays. <i>Composites Part B: Engineering</i> , 2021 , 229, 109456	10	2
596	Toughening of Polylactide with High Tensile Strength via Constructing an Integrative Physical Crosslinking Network Based on Ionic Interactions. <i>Macromolecules</i> , 2021 , 54, 291-301	5.5	8
595	High-fire-safety thermoplastic polyester constructed by novel sulfonate with benzimidazole structure. <i>Science China Materials</i> , 2021 , 64, 2067-2080	7.1	1
594	Intelligently Thermoresponsive Ionic Liquid toward Molecular Firefighting and Thermal Energy Management. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 15680-15689	9.5	1
593	Multifunctional Photothermal Conversion Nanocoatings Toward Highly Efficient and Safe High-Viscosity Oil Cleanup Absorption. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 11948-11957	9.5	11
592	Thermally induced end-group-capturing as an eco-friendly and general method for enhancing the fire safety of semi-aromatic polyesters. <i>Polymer</i> , 2021 , 218, 123430	3.9	6
591	Eco-friendly synergistic cross-linking flame-retardant strategy with smoke and melt-dripping suppression for condensation polymers. <i>Composites Part B: Engineering</i> , 2021 , 211, 108664	10	16
590	Targeted Copolymerization in Amorphous Regions for Constructing Crystallizable Functionalized Copolymers. <i>Macromolecules</i> , 2021 , 54, 4412-4422	5.5	2

589	Construction of durable eco-friendly biomass-based flame-retardant coating for cotton fabrics. <i>Chemical Engineering Journal</i> , 2021 , 410, 128361	14.7	54
588	High strength, low flammability, and smoke suppression for epoxy thermoset enabled by a low-loading phosphorus-nitrogen-silicon compound. <i>Composites Part B: Engineering</i> , 2021 , 211, 108640	10	25
587	Recycling waste thermosetting unsaturated polyester resins into oligomers for preparing amphiphilic aerogels. <i>Waste Management</i> , 2021 , 126, 89-96	8.6	2
586	Ultralow-density carbon foam composites with bean-like Co-embedded carbon nanotube whiskers towards high-performance microwave absorption. <i>Journal of Alloys and Compounds</i> , 2021 , 863, 158090	5.7	15
585	Multifunctional Flame-Retardant Melamine-Based Hybrid Foam for Infrared Stealth, Thermal Insulation, and Electromagnetic Interference Shielding. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 26505-26514	9.5	24
584	Semi-aromatic polyamides containing fluorenyl pendent toward excellent thermal stability, mechanical properties and dielectric performance. <i>Polymer</i> , 2021 , 224, 123757	3.9	5
583	Biomimetic construction peanut-leaf structure on ammonium polyphosphate surface: Improving its compatibility with poly(lactic acid) and flame-retardant efficiency simultaneously. <i>Chemical Engineering Journal</i> , 2021 , 412, 128737	14.7	16
582	Highly efficient flame retardation of polyester fabrics via novel DOPO-modified sol-gel coatings. <i>Polymer</i> , 2021 , 226, 123761	3.9	7
581	Multiple functional materials from crushing waste thermosetting resins. <i>Materials Horizons</i> , 2021 , 8, 2341-2438	14.4	8
580	A Self-supporting, Surface Carbonized Filter Paper Membrane for Efficient Water-in-Oil Emulsion Separation. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2021 , 39, 181-188	3.5	3
579	Fully bio-based, low fire-hazard and superelastic aerogel without hazardous cross-linkers for excellent thermal insulation and oil clean-up absorption. <i>Journal of Hazardous Materials</i> , 2021 , 403, 123977	12.8	25
578	Flame-responsive aryl ether nitrile structure towards multiple fire hazards suppression of thermoplastic polyester. <i>Journal of Hazardous Materials</i> , 2021 , 403, 123714	12.8	16
577	Superhydrophobic magnetic hollow carbon microspheres with hierarchical micro/nano-structure for ultrafast and highly-efficient multitasking oil-water separation. <i>Carbon</i> , 2021 , 174, 70-78	10.4	11
576	Toward strong and super-toughened PLA via incorporating a novel fully bio-based copolyester containing cyclic sugar. <i>Composites Part B: Engineering</i> , 2021 , 207, 108558	10	7
575	Development of polylactic acid-based materials with highly and balanced mechanical performances via incorporating a furan ring-containing unsaturated copolyester. <i>Composites Communications</i> , 2021 , 23, 100543	6.7	2
574	Superamphiphobic and flame-retardant coatings with highly chemical and mechanical robustness. <i>Chemical Engineering Journal</i> , 2021 , 421, 127793	14.7	9
573	A titanium dioxide-carbon nanotube hybrid to simultaneously achieve the mechanical enhancement of natural rubber and its stability under extreme frictional conditions. <i>Materials Advances</i> , 2021 , 2, 2408-2418	3.3	2
572	A solar evaporator based on hollow polydopamine nanotubes with all-in-one synergic design for highly-efficient water purification. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 15776-15786	13	8

571	Controlling Cross-Linking Networks with Different Imidazole Accelerators toward High-Performance Epoxidized Soybean Oil-Based Thermosets. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 3267-3277	8.3	9
570	Fully Bio-Based Phytic Acid/Basic Amino Acid Salt for Flame-Retardant Polypropylene. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 1488-1498	4.3	13
569	Temperature-Responsive Intumescent Chemistry toward Fire Resistance and Super Thermal Insulation under Extremely Harsh Conditions. <i>Chemistry of Materials</i> , 2021 , 33, 6018-6028	9.6	17
568	Novel polyamide 6 composites based on Schiff-base containing phosphonate oligomer: High flame retardancy, great processability and mechanical property. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021 , 146, 106423	8.4	9
567	Flame-retarded thermoplastic polyurethane elastomer: From organic materials to nanocomposites and new prospects. <i>Chemical Engineering Journal</i> , 2021 , 417, 129314	14.7	22
566	Rapid Synthesis of Polymer-Grafted Cellulose Nanofiber Nanocomposite via Surface-Initiated Cu(0)-Mediated Reversible Deactivation Radical Polymerization. <i>Macromolecules</i> , 2021 , 54, 7409-7420	5.5	1
565	Effect of Bio-Based Cobalt Alginate on the Fire Safety and Mechanical Properties for Epoxy Resin. <i>Macromolecular Materials and Engineering</i> , 2021 , 306, 2100466	3.9	4
564	Hypophosphite tailored graphitized hierarchical porous biochar toward highly efficient solar thermal energy harvesting and stable Storage/Release. <i>Chemical Engineering Journal</i> , 2021 , 420, 129942	14.7	9
563	Small change, big impact: Simply tailoring the substitution position towards significant improvement of flame retardancy. <i>Composites Part B: Engineering</i> , 2021 , 223, 109109	10	3
562	Growing MoO ₃ -doped WO ₃ nanoflakes on rGO aerogel sheets towards superior microwave absorption. <i>Carbon</i> , 2021 , 183, 205-215	10.4	11
561	A Quadruple-Biomimetic surface for spontaneous and efficient fog harvesting. <i>Chemical Engineering Journal</i> , 2021 , 422, 130119	14.7	20
560	Fully biomass-based aerogels with ultrahigh mechanical modulus, enhanced flame retardancy, and great thermal insulation applications. <i>Composites Part B: Engineering</i> , 2021 , 225, 109309	10	14
559	Highly efficient, transparent, and environment-friendly flame-retardant coating for cotton fabric. <i>Chemical Engineering Journal</i> , 2021 , 424, 130556	14.7	32
558	Flexible Photonic Cellulose Nanocrystal Films as a Platform with Multisensing Functions. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 18484-18491	8.3	13
557	Banana Leaflike C-Doped MoS ₂ Aerogels toward Excellent Microwave Absorption Performance. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 26301-26312	9.5	38
556	Double-cross-linked aerogels towards ultrahigh mechanical properties and thermal insulation at extreme environment. <i>Chemical Engineering Journal</i> , 2020 , 399, 125698	14.7	31
555	Synergy effect between quaternary phosphonium ionic liquid and ammonium polyphosphate toward flame retardant PLA with improved toughness. <i>Composites Part B: Engineering</i> , 2020 , 197, 108192	10	34
554	4D printing of shape memory aliphatic copolyester via UV-assisted FDM strategy for medical protective devices. <i>Chemical Engineering Journal</i> , 2020 , 396, 125242	14.7	36

553	Adaptable Strategy to Fabricate Self-Healable and Reprocessable Poly(thiourethane-urethane) Elastomers via Reversible Thiol-Cyanate Click Chemistry. <i>Macromolecules</i> , 2020 , 53, 4284-4293	5.5	29
552	A dimensional stable hydrogel-born foam with enhanced mechanical and thermal insulation and fire-retarding properties via fast microwave foaming. <i>Chemical Engineering Journal</i> , 2020 , 399, 125781	14.7	9
551	Nanoflake-Constructed Supramolecular Hierarchical Porous Microspheres for Fire-Safety and Highly Efficient Thermal Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 28700-28710	9.5	13
550	Highly-efficient, Rapid and continuous separation of surfactant-stabilized Oil/Water emulsions by selective under-liquid adhering emulsified droplets. <i>Journal of Hazardous Materials</i> , 2020 , 400, 123132	12.8	16
549	Flame Retardation of Natural Rubber: Strategy and Recent Progress. <i>Polymers</i> , 2020 , 12,	4.5	11
548	FeO Nanoparticle/N-Doped Carbon Hierarchically Hollow Microspheres for Broadband and High-Performance Microwave Absorption at an Ultralow Filler Loading. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 18952-18963	9.5	45
547	Novel piperazine-containing oligomer as flame retardant and crystallization induction additive for thermoplastics polyurethane. <i>Chemical Engineering Journal</i> , 2020 , 400, 125941	14.7	37
546	Recycling waste epoxy resin as hydrophobic coating of melamine foam for high-efficiency oil absorption. <i>Applied Surface Science</i> , 2020 , 529, 147151	6.7	14
545	In situ phthalocyanine synthesis chemistry in flames towards molecular fireproof engineering. <i>Chemical Communications</i> , 2020 , 56, 9525-9528	5.8	5
544	A Bioinspired Slippery Surface with Stable Lubricant Impregnation for Efficient Water Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 12373-12381	9.5	39
543	Carbon fiber-based polymer composite via ceramization toward excellent electromagnetic interference shielding performance and high temperature resistance. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020 , 131, 105769	8.4	14
542	A facile and efficient flame-retardant and smoke-suppressant resin coating for expanded polystyrene foams. <i>Composites Part B: Engineering</i> , 2020 , 185, 107797	10	41
541	Energy-Efficient Conversion of Amine-Cured Epoxy Resins into Functional Chemicals Based on Swelling-Induced Nanopores. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 2226-2235	8.3	10
540	Fire hazards management for polymeric materials via synergy effects of pyrolysates-fixation and aromatized-charring. <i>Journal of Hazardous Materials</i> , 2020 , 389, 122040	12.8	17
539	A high-strength and healable shape memory supramolecular polymer based on pyrene-naphthalene diimide complexes. <i>Polymer</i> , 2020 , 190, 122228	3.9	8
538	Tuning the Pendent Groups of Semiaromatic Polyamides toward High Performance. <i>Macromolecules</i> , 2020 , 53, 3504-3513	5.5	2
537	Bioinspired fabrication of asymmetric wood materials for directional liquid manipulation and transport. <i>Chemical Engineering Journal</i> , 2020 , 383, 123168	14.7	14
536	Strong and Tough Polylactic Acid Based Composites Enabled by Simultaneous Reinforcement and Interfacial Compatibilization of Microfibrillated Cellulose. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 1573-1582	8.3	35

535	Novel phosphorus-containing imidazolium as hardener for epoxy resin aiming at controllable latent curing behavior and flame retardancy. <i>Composites Part B: Engineering</i> , 2020 , 184, 107673	10	35
534	How Hydrogen Bond Interactions Affect the Flame Retardancy and Anti-Dripping Performances of PET. <i>Macromolecular Materials and Engineering</i> , 2020 , 305, 1900661	3.9	13
533	Epoxy resin composites reinforced and fire-retarded by surficially-treated carbon fibers via a tunable and facile process. <i>Composites Science and Technology</i> , 2020 , 187, 107945	8.6	15
532	Blot-pressing welded composite membrane for separating oil-in-water emulsion with high structural stability. <i>Composites Part B: Engineering</i> , 2020 , 202, 108449	10	3
531	Porous carbon materials for microwave absorption. <i>Materials Advances</i> , 2020 , 1, 2631-2645	3.3	20
530	Green Fabrication of High-Performance Chitin Nanowhiskers/PVA Composite Films with a Brick-and-Mortar Structure. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 17807-17815	8.3	5
529	Unique two-way free-standing thermo- and photo-responsive shape memory azobenzene-containing polyurethane liquid crystal network. <i>Science China Materials</i> , 2020 , 63, 2590-2598	7.1	8
528	A highly-effective ionic liquid flame retardant towards fire-safety waterborne polyurethane (WPU) with excellent comprehensive performance. <i>Polymer</i> , 2020 , 205, 122780	3.9	13
527	Novel alkynyl-containing phosphonate ester oligomer with high charring capability as flame retardant additive for thermoplastic polyurethane. <i>Composites Part B: Engineering</i> , 2020 , 199, 108315	10	16
526	Fully Bio-Based Pressure-Sensitive Adhesives with High Adhesivity Derived from Epoxidized Soybean Oil and Rosin Acid. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 13261-13270	8.3	16
525	An ultralow-temperature superelastic polymer aerogel with high strength as a great thermal insulator under extreme conditions. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 18698-18706	13	28
524	High-Efficiency Hydrolysis of Thermosetting Polyester Resins into Porous Functional Materials Using Low-Boiling Aqueous Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 16010-16019	8.3	2
523	Porous CoNi nanoalloy@N-doped carbon nanotube composite clusters with ultra-strong microwave absorption at a low filler loading. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 13712-13722	7.1	25
522	Chameleon-Inspired Variable Coloration Enabled by a Highly Flexible Photonic Cellulose Film. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 46710-46718	9.5	29
521	Highly Flame-Retardant Liquid Crystalline Polymers. <i>Polymers and Polymeric Composites</i> , 2020 , 549-575	0.6	
520	From a body temperature-triggered reversible shape-memory material to high-sensitive bionic soft actuators. <i>Applied Materials Today</i> , 2020 , 18, 100463	6.6	16
519	Fast microwave-assisted hydrolysis of unsaturated polyester resin into column packing for rapid purifying of dye wastewater. <i>Journal of Hazardous Materials</i> , 2020 , 384, 121465	12.8	10
518	A novel phosphorus-containing semi-aromatic polyester toward flame retardancy and enhanced mechanical properties of epoxy resin. <i>Chemical Engineering Journal</i> , 2020 , 380, 122471	14.7	51

517	A novel inherently flame-retardant thermoplastic polyamide elastomer. <i>Chemical Engineering Journal</i> , 2020 , 379, 122278	14.7	16
516	A superhydrophobic coating to create multi-functional materials with mechanical/chemical/physical robustness. <i>Chemical Engineering Journal</i> , 2020 , 381, 122539	14.7	19
515	Multifunctional interlayer with simultaneously capturing and catalytically converting polysulfides for boosting safety and performance of lithium-sulfur batteries at high-low temperatures. <i>Journal of Energy Chemistry</i> , 2020 , 50, 248-259	12	15
514	Phosphorus-containing organic-inorganic hybrid nanoparticles for the smoke suppression and flame retardancy of thermoplastic polyurethane. <i>Polymer Degradation and Stability</i> , 2020 , 178, 109179	4.7	17
513	Simultaneously enhance both the flame retardancy and toughness of polylactic acid by the cooperation of intumescent flame retardant and bio-based unsaturated polyester. <i>Polymer Degradation and Stability</i> , 2019 , 168, 108961	4.7	14
512	Highly-efficient separation of oil and water enabled by a silica nanoparticle coating with pH-triggered tunable surface wettability. <i>Journal of Colloid and Interface Science</i> , 2019 , 557, 65-75	9.3	27
511	Design of Healable Shape-Memory Materials from Dynamic Interactions. <i>Materials Today: Proceedings</i> , 2019 , 16, 1502-1506	1.4	1
510	Photo-cross-linking of Anthracene as a Versatile Strategy to Design Shape Memory Polymers. <i>Materials Today: Proceedings</i> , 2019 , 16, 1524-1530	1.4	5
509	Ultralight Three-Dimensional Hierarchical Cobalt Nanocrystals/N-Doped CNTs/Carbon Sponge Composites with a Hollow Skeleton toward Superior Microwave Absorption. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 35987-35998	9.5	95
508	Flexible and electro-induced shape memory Poly(Lactic Acid)-based material constructed by inserting a main-chain liquid crystalline and selective localization of carbon nanotubes. <i>Composites Science and Technology</i> , 2019 , 173, 1-6	8.6	20
507	Simultaneously Improved Flame Retardance and Ceramifiable Properties of Polymer-Based Composites via the Formed Crystalline Phase at High Temperature. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 7459-7471	9.5	32
506	Poly(ethylene-co-vinyl acetate)/graphene shape-memory actuator with a cyclic thermal/light dual-sensitive capacity. <i>Composites Science and Technology</i> , 2019 , 173, 41-46	8.6	16
505	A novel bio-based flame retardant for polypropylene from phytic acid. <i>Polymer Degradation and Stability</i> , 2019 , 161, 298-308	4.7	70
504	Ultralight CoNi/rGO aerogels toward excellent microwave absorption at ultrathin thickness. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 441-448	7.1	144
503	3D printable robust shape memory PET copolyesters with fire safety via π -stacking and synergistic crosslinking. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 17037-17045	13	38
502	Ultrahigh-Temperature Insulating and Fire-Resistant Aerogels from Cationic Amylopectin and Clay via a Facile Route. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 11582-11592	8.3	35
501	Electrostatic action induced interfacial accumulation of layered double hydroxides towards highly efficient flame retardance and mechanical enhancement of thermoplastic polyurethane/ammonium polyphosphate. <i>Polymer Degradation and Stability</i> , 2019 , 165, 126-136	4.7	35
500	Rheological premonitory of nanoclay morphology on the mechanical characteristics of composite aerogels. <i>Composites Part B: Engineering</i> , 2019 , 173, 106889	10	8

499	A green and facile way to prepare methylcellulose-based porous polymer electrolytes with high lithium-ion conductivity. <i>Polymer</i> , 2019 , 176, 256-263	3.9	8
498	Semi-aromatic copolyesters with high strength and fire safety via hydrogen bonds and π -stacking. <i>Chemical Engineering Journal</i> , 2019 , 374, 694-705	14.7	37
497	On controlling aerogel microstructure by freeze casting. <i>Composites Part B: Engineering</i> , 2019 , 173, 1070-1086	3.6	30
496	Novel amino glycerin decorated ammonium polyphosphate for the highly-efficient intumescent flame retardance of wood flour/polypropylene composite via simultaneous interfacial and bulk charring. <i>Composites Part B: Engineering</i> , 2019 , 172, 636-648	10	30
495	From waste epoxy resins to efficient oil/water separation materials via a microwave assisted pore-forming strategy. <i>Materials Horizons</i> , 2019 , 6, 1733-1739	14.4	26
494	Fabrication of Shape-Memory Aerogel Based on Chitosan/Poly(ethylene glycol) Diacrylate Semi-Interpenetrating Networks via a Facile and Eco-Friendly Strategy. <i>Macromolecular Materials and Engineering</i> , 2019 , 304, 1900169	3.9	4
493	Single-walled carbon nanotubes as adaptable one-dimensional crosslinker to bridge multi-responsive shape memory network via π -stacking. <i>Composites Communications</i> , 2019 , 14, 48-54	6.7	11
492	Fire-Safe Polyesters Enabled by End-Group Capturing Chemistry. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 9188-9193	16.4	40
491	Photo-cross-linking: A powerful and versatile strategy to develop shape-memory polymers. <i>Progress in Polymer Science</i> , 2019 , 95, 32-64	29.6	57
490	Fire-Safe Polyesters Enabled by End-Group Capturing Chemistry. <i>Angewandte Chemie</i> , 2019 , 131, 9286-9291	3.1	1
489	A fully bio-based composite coating with mechanical robustness and dual superlyophobicity for efficient two-way oil/water separation. <i>Journal of Colloid and Interface Science</i> , 2019 , 549, 123-132	9.3	13
488	Effects of Sodium Montmorillonite on the Preparation and Properties of Cellulose Aerogels. <i>Polymers</i> , 2019 , 11,	4.5	12
487	Hierarchically porous SiO/polyurethane foam composites towards excellent thermal insulating, flame-retardant and smoke-suppressant performances. <i>Journal of Hazardous Materials</i> , 2019 , 375, 61-69	12.8	58
486	A fast and mild closed-loop recycling of anhydride-cured epoxy through microwave-assisted catalytic degradation by trifunctional amine and subsequent reuse without separation. <i>Green Chemistry</i> , 2019 , 21, 2487-2493	10	37
485	A robust self-healing polyurethane elastomer: From H-bonds and stacking interactions to well-defined microphase morphology. <i>Science China Materials</i> , 2019 , 62, 1188-1198	7.1	51
484	Constructing hierarchically hydrophilic/superhydrophobic ZIF-8 pattern on soy protein towards a biomimetic efficient water harvesting material. <i>Chemical Engineering Journal</i> , 2019 , 369, 1040-1048	14.7	52
483	From shape and color memory PCL network to access high security anti-counterfeit material. <i>Polymer</i> , 2019 , 172, 52-57	3.9	10
482	Autofluorescence of hydrogels without a fluorophore. <i>Soft Matter</i> , 2019 , 15, 3588-3594	3.6	15

481	Synergistic catalysis of binary alkalis for the recycling of unsaturated polyester under mild conditions. <i>Green Chemistry</i> , 2019 , 21, 3006-3012	10	16
480	Heterogeneous catalysts based on built-in N-heterocyclic carbenes with high removability, recoverability and reusability for ring-opening polymerization of cyclic esters. <i>Polymer Chemistry</i> , 2019 , 10, 1526-1536	4.9	5
479	Polyurethane networks based on disulfide bonds: from tunable multi-shape memory effects to simultaneous self-healing. <i>Science China Materials</i> , 2019 , 62, 437-447	7.1	44
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332	Coating Novozyme435 with an ionic liquid: more than just a coating for the efficient ring-opening polymerization of ϵ -valerolactone. <i>RSC Advances</i> , 2015 , 5, 68276-68282	3.7	8
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326	"AND" logic gate regulated pH and reduction dual-responsive prodrug nanoparticles for efficient intracellular anticancer drug delivery. <i>Chemical Communications</i> , 2015 , 51, 93-6	5.8	31
325	Low flammability foam-like materials based on epoxy, tannic acid, and sodium montmorillonite clay. <i>Green Materials</i> , 2015 , 3, 43-51	3.2	15
324	Synthesis, characterization and isothermal crystallization behavior of poly(butylene succinate)-b-poly(diethylene glycol succinate) multiblock copolymers. <i>Polymers for Advanced Technologies</i> , 2015 , 26, 1003-1013	3.2	13
323	Improving the impact property and heat-resistance of PLA/PC blends through coupling molecular chains at the interface. <i>Polymers for Advanced Technologies</i> , 2015 , 26, 1247-1258	3.2	18
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3 ¹⁷	Efficient approach to improving the flame retardancy of poly(vinyl alcohol)/clay aerogels: incorporating piperazine-modified ammonium polyphosphate. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 1780-6	9.5	76
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3 ¹²	Synergistic flame-retardant effect of halloysite nanotubes on intumescent flame retardant in LDPE. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	19
3 ¹¹	Facile fabrication of poly(vinyl alcohol) gels and derivative aerogels. <i>Polymer</i> , 2014 , 55, 380-384	3.9	71
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3 ⁰⁴	Phase separation in electrospun nanofibers controlled by crystallization induced self-assembly. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 8416	13	28
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