

Yu-Zhong Wang

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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	Chitin whiskers: an overview. <i>Biomacromolecules</i> , 2012 , 13, 1-11	6.9	307
623	Biodegradation behavior of poly(butylene adipate-co-terephthalate) (PBAT), poly(lactic acid) (PLA), and their blend under soil conditions. <i>Polymer Testing</i> , 2013 , 32, 918-926	4.5	251
622	Biodegradable soy protein isolate-based materials: a review. <i>Biomacromolecules</i> , 2011 , 12, 3369-80	6.9	244
621	An efficient mono-component polymeric intumescent flame retardant for polypropylene: preparation and application. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 7363-70	9.5	210
620	Synergistic effect between a novel hyperbranched charring agent and ammonium polyphosphate on the flame retardant and anti-dripping properties of polylactide. <i>Polymer Degradation and Stability</i> , 2010 , 95, 763-770	4.7	202
619	Green composite films prepared from cellulose, starch and lignin in room-temperature ionic liquid. <i>Bioresource Technology</i> , 2009 , 100, 2569-74	11	199
618	Synergistic effect of ammonium polyphosphate and layered double hydroxide on flame retardant properties of poly(vinyl alcohol). <i>Polymer Degradation and Stability</i> , 2008 , 93, 1323-1331	4.7	194
617	Ammonium polyphosphate chemically-modified with ethanolamine as an efficient intumescent flame retardant for polypropylene. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 13955	13	171
616	Cellulose Aerogels: Synthesis, Applications, and Prospects. <i>Polymers</i> , 2018 , 10,	4.5	170
615	Preparation and burning behaviors of flame retarding biodegradable poly(lactic acid) nanocomposite based on zinc aluminum layered double hydroxide. <i>Polymer Degradation and Stability</i> , 2010 , 95, 2474-2480	4.7	164
614	POLY(p-DIOXANONE) AND ITS COPOLYMERS. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 2002 , 42, 373-398		160
613	Novel Multifunctional Organic-Inorganic Hybrid Curing Agent with High Flame-Retardant Efficiency for Epoxy Resin. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 17919-28	9.5	156
612	Halogen-Free Flame-Retardant Flexible Polyurethane Foam with a Novel Nitrogen-Phosphorus Flame Retardant. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 9769-9776	3.9	155
611	A flame-retardant epoxy resin based on a reactive phosphorus-containing monomer of DODPP and its thermal and flame-retardant properties. <i>Polymer Degradation and Stability</i> , 2008 , 93, 1308-1315	4.7	149
610	A novel biodegradable multiblock poly(ester urethane) containing poly(L-lactic acid) and poly(butylene succinate) blocks. <i>Polymer</i> , 2009 , 50, 1178-1186	3.9	148
609	Fully biobased and supertough polylactide-based thermoplastic vulcanizates fabricated by peroxide-induced dynamic vulcanization and interfacial compatibilization. <i>Biomacromolecules</i> , 2014 , 15, 4260-71	6.9	145
608	Fire retardancy of a reactively extruded intumescent flame retardant polyethylene system enhanced by metal chelates. <i>Polymer Degradation and Stability</i> , 2007 , 92, 1592-1598	4.7	145

607	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
606	Metal compound-enhanced flame retardancy of intumescent epoxy resins containing ammonium polyphosphate. <i>Polymer Degradation and Stability</i> , 2009 , 94, 625-631	4.7	140
605	A Novel Intumescent Flame-Retardant Polyethylene System. <i>Macromolecular Materials and Engineering</i> , 2006 , 291, 247-253	3.9	139
604	Synthesis of organo cobalt-aluminum layered double hydroxide via a novel single-step self-assembling method and its use as flame retardant nanofiller in PP. <i>Langmuir</i> , 2010 , 26, 14162-9	4	138
603	Flame-retardant and anti-dripping effects of a novel char-forming flame retardant for the treatment of poly(ethylene terephthalate) fabrics. <i>Polymer Degradation and Stability</i> , 2005 , 88, 349-356	4.7	136
602	A novel and feasible approach for one-pack flame-retardant epoxy resin with long pot life and fast curing. <i>Chemical Engineering Journal</i> , 2018 , 337, 30-39	14.7	134
601	Intumescence: An effect way to flame retardance and smoke suppression for polystyrene. <i>Polymer Degradation and Stability</i> , 2012 , 97, 1423-1431	4.7	133
600	Properties of Starch Blends with Biodegradable Polymers. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 2003 , 43, 385-409		133
599	Flame retardation of polypropylene via a novel intumescent flame retardant: Ethylenediamine-modified ammonium polyphosphate. <i>Polymer Degradation and Stability</i> , 2014 , 106, 88-96	4.7	131
598	Flame-Retardant Effect of Sepiolite on an Intumescent Flame-Retardant Polypropylene System. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 2047-2054	3.9	131
597	Synergistic Effect of the Charring Agent on the Thermal and Flame Retardant Properties of Polyethylene. <i>Macromolecular Materials and Engineering</i> , 2004 , 289, 208-212	3.9	126
596	Preparation and properties of oxidized starch with high degree of oxidation. <i>Carbohydrate Polymers</i> , 2012 , 87, 2554-2562	10.3	125
595	New application for aromatic Schiff base: High efficient flame-retardant and anti-dripping action for polyesters. <i>Chemical Engineering Journal</i> , 2018 , 336, 622-632	14.7	119
594	Preparation and properties of nanocomposites based on poly(lactic acid) and functionalized TiO ₂ . <i>Acta Materialia</i> , 2009 , 57, 3182-3191	8.4	115
593	Biodegradable pectin/clay aerogels. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 1715-21	9.5	114
592	Strong and tough fully physically crosslinked double network hydrogels with tunable mechanics and high self-healing performance. <i>Chemical Engineering Journal</i> , 2018 , 349, 588-594	14.7	113
591	Biodegradation behavior of PHAs with different chemical structures under controlled composting conditions. <i>Polymer Testing</i> , 2011 , 30, 372-380	4.5	111
590	Latent curing epoxy system with excellent thermal stability, flame retardance and dielectric property. <i>Chemical Engineering Journal</i> , 2018 , 347, 223-232	14.7	109

- 589 Dissolution Behavior of Chitin in Ionic Liquids. *Journal of Macromolecular Science - Physics*, **2010**, 49, 528-541 109
- 588 A novel phosphorus-containing poly(lactic acid) toward its flame retardation. *Polymer*, **2011**, 52, 233-238, 9 108
- 587 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, 3 108
- 586 Bio-based blends of starch and poly(butylene succinate) with improved miscibility, mechanical properties, and reduced water absorption. *Carbohydrate Polymers*, **2011**, 83, 762-768 10, 3 107
- 585 A flame-retardant-free and thermo-cross-linkable copolyester: Flame-retardant and anti-dripping mode of action. *Polymer*, **2014**, 55, 2394-2403 3, 9 105
- 584 In situ formed crosslinked polyurethane toughened polylactide. *Polymer Chemistry*, **2014**, 5, 2530 4, 9 105
- 583 A Novel Phosphorus-Containing Polymer as a Highly Effective Flame Retardant. *Macromolecular Materials and Engineering*, **2004**, 289, 703-707 3, 9 104
- 582 Low flammability, foam-like materials based on ammonium alginate and sodium montmorillonite clay. *Polymer*, **2012**, 53, 5825-5831 3, 9 103
- 581 High Carbonyl Content Oxidized Starch Prepared by Hydrogen Peroxide and Its Thermoplastic Application. *Starch/Staerke*, **2009**, 61, 646-655 2, 3 103
- 580 Novel phosphorus-containing halogen-free ionic liquid toward fire safety epoxy resin with well-balanced comprehensive performance. *Chemical Engineering Journal*, **2018**, 354, 208-219 14, 7 101
- 579 Preparation and flammability of poly(vinyl alcohol) composite aerogels. *ACS Applied Materials & Interfaces*, **2014**, 6, 6790-6 9, 5 101
- 578 Persistently flame-retardant flexible polyurethane foams by a novel phosphorus-containing polyol. *Chemical Engineering Journal*, **2018**, 343, 198-206 14, 7 98
- 577 A method for simultaneously improving the flame retardancy and toughness of PLA. *Polymers for Advanced Technologies*, **2011**, 22, 2295-2301 3, 2 98
- 576 Biomimetic Optical Cellulose Nanocrystal Films with Controllable Iridescent Color and Environmental Stimuli-Responsive Chromism. *ACS Applied Materials & Interfaces*, **2018**, 10, 5805-5815, 5 97
- 575 Inherently Flame-Retardant Flexible Polyurethane Foam with Low Content of Phosphorus-Containing Cross-Linking Agent. *Industrial & Engineering Chemistry Research*, **2014**, 53, 1160-1171 3, 9 97
- 574 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 9, 5 95
- 573 Effect of TiO₂ nanoparticles on the long-term hydrolytic degradation behavior of PLA. *Polymer Degradation and Stability*, **2012**, 97, 721-728 4, 7 95
- 572 Design of Poly(L-lactide)-Poly(ethylene glycol) Copolymer with Light-Induced Shape-Memory Effect Triggered by Pendant Anthracene Groups. *ACS Applied Materials & Interfaces*, **2016**, 8, 9431-9 9, 5 94

571	Polyamide-enhanced flame retardancy of ammonium polyphosphate on epoxy resin. <i>Journal of Applied Polymer Science</i> , 2008 , 108, 2644-2653	2.9	93
570	Synthesis and characterization of a novel nitrogen-containing flame retardant. <i>Journal of Applied Polymer Science</i> , 2004 , 94, 1556-1561	2.9	93
569	Nonflammable Alginate Nanocomposite Aerogels Prepared by a Simple Freeze-Drying and Post-Cross-Linking Method. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 643-50	9.5	92
568	Flame-retardant and smoke-suppressant flexible polyurethane foams based on reactive phosphorus-containing polyol and expandable graphite. <i>Journal of Hazardous Materials</i> , 2018 , 360, 651-660	12.8	90
567	Aluminum Hypophosphite versus Alkyl-Substituted Phosphinate in Polyamide 6: Flame Retardance, Thermal Degradation, and Pyrolysis Behavior. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 2875-2886	3.9	89
566	Char-forming mechanism of a novel polymeric flame retardant with char agent. <i>Polymer Degradation and Stability</i> , 2007 , 92, 1046-1052	4.7	89
565	Thermal oxidative degradation behaviours of flame-retardant copolyesters containing phosphorous linked pendent group/montmorillonite nanocomposites. <i>Polymer Degradation and Stability</i> , 2005 , 87, 171-176	4.7	88
564	Piperazine-modified ammonium polyphosphate as monocomponent flame-retardant hardener for epoxy resin: flame retardance, curing behavior and mechanical property. <i>Polymer Chemistry</i> , 2016 , 7, 3003-3012	4.9	88
563	Preparation and characterisation of a novel fire retardant PET/zirconium phosphate nanocomposite. <i>Polymer Degradation and Stability</i> , 2009 , 94, 544-549	4.7	87
562	A Fascinating Metallo-Supramolecular Polymer Network with Thermal/Magnetic/Light-Responsive Shape-Memory Effects Anchored by Fe ₃ O ₄ Nanoparticles. <i>Macromolecules</i> , 2018 , 51, 705-715	5.5	84
561	Flame retardant mechanism of an efficient flame-retardant polymeric synergist with ammonium polyphosphate for polypropylene. <i>Polymer Degradation and Stability</i> , 2013 , 98, 2011-2020	4.7	83
560	A promising strategy for chemical recycling of carbon fiber/thermoset composites: self-accelerating decomposition in a mild oxidative system. <i>Green Chemistry</i> , 2012 , 14, 3260	10	83
559	Effect of a phosphorus-containing flame retardant on the thermal properties and ease of ignition of poly(lactic acid). <i>Polymer Degradation and Stability</i> , 2011 , 96, 1557-1561	4.7	83
558	Structure and properties of soy protein/poly(butylene succinate) blends with improved compatibility. <i>Biomacromolecules</i> , 2008 , 9, 3157-64	6.9	83
557	Effect of metal chelates on the ignition and early flaming behaviour of intumescent fire-retarded polyethylene systems. <i>Polymer Degradation and Stability</i> , 2008 , 93, 1024-1030	4.7	82
556	A new approach for the simultaneous improvement of fire retardancy, tensile strength and melt dripping of poly(ethylene terephthalate). <i>Journal of Materials Chemistry</i> , 2003 , 13, 1248		81
555	Highly thermostable and durably flame-retardant unsaturated polyester modified by a novel polymeric flame retardant containing Schiff base and spirocyclic structures. <i>Chemical Engineering Journal</i> , 2018 , 344, 419-430	14.7	79
554	An efficiently halogen-free flame-retardant long-glass-fiber-reinforced polypropylene system. <i>Polymer Degradation and Stability</i> , 2011 , 96, 363-370	4.7	79

553	Modified Corn Starches with Improved Comprehensive Properties for Preparing Thermoplastics. <i>Starch/Staerke</i> , 2007 , 59, 258-268	2.3	79
552	Biodegradation behavior of P(3HB,4HB)/PLA blends in real soil environments. <i>Polymer Testing</i> , 2013 , 32, 60-70	4.5	78
551	The synergistic flame-retardant effect of O-MMT on the intumescent flame-retardant PP/CA/APP systems. <i>Polymers for Advanced Technologies</i> , 2010 , 21, 789-796	3.2	78
550	Kinetics of thermal degradation of flame retardant copolyesters containing phosphorus linked pendent groups. <i>Polymer Degradation and Stability</i> , 2003 , 80, 135-140	4.7	78
549	Organically modified rectorite toughened poly(lactic acid): Nanostructures, crystallization and mechanical properties. <i>European Polymer Journal</i> , 2009 , 45, 2996-3003	5.2	77
548	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
547	A novel efficient halogen-free flame retardant system for polycarbonate. <i>Polymer Degradation and Stability</i> , 2011 , 96, 320-327	4.7	76
546	Inherently flame-retardant rigid polyurethane foams with excellent thermal insulation and mechanical properties. <i>Polymer</i> , 2018 , 153, 616-625	3.9	76
545	Epoxy resin flame-retarded via a novel melamine-organophosphinic acid salt: Thermal stability, flame retardance and pyrolysis behavior. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017 , 128, 54-63	6	75
544	A novel phosphorus-containing flame retardant for the formaldehyde-free treatment of cotton fabrics. <i>Polymer Degradation and Stability</i> , 2012 , 97, 2487-2491	4.7	75
543	Design and Synthesis of PET-Based Copolyesters with Flame-Retardant and Antidripping Performance. <i>Macromolecular Rapid Communications</i> , 2017 , 38, 1700451	4.8	74
542	Surface modification with hierarchical CuO arrays toward a flexible, durable superhydrophobic and self-cleaning material. <i>Chemical Engineering Journal</i> , 2017 , 313, 1328-1334	14.7	73
541	Kinetics of thermal degradation and thermal oxidative degradation of poly(p-dioxanone). <i>European Polymer Journal</i> , 2003 , 39, 1567-1574	5.2	73
540	Super-tough poly(L-lactide)/crosslinked polyurethane blends with tunable impact toughness. <i>RSC Advances</i> , 2014 , 4, 12857-12866	3.7	72
539	Facile fabrication of poly(vinyl alcohol) gels and derivative aerogels. <i>Polymer</i> , 2014 , 55, 380-384	3.9	71
538	Synthesis of organo-modified Zirconium phosphate and its effect on the flame retardancy of IFR poly(lactic acid) systems. <i>Polymer Degradation and Stability</i> , 2011 , 96, 771-777	4.7	71
537	Cellulose/Soy Protein Isolate Blend Films Prepared via Room-Temperature Ionic Liquid. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 7132-7136	3.9	71
536	A novel bio-based flame retardant for polypropylene from phytic acid. <i>Polymer Degradation and Stability</i> , 2019 , 161, 298-308	4.7	70

535	Photothermal Conversion Triggered Precisely Targeted Healing of Epoxy Resin Based on Thermoreversible Diels-Alder Network and Amino-Functionalized Carbon Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 20797-20807	9.5	69
534	An Effective Way To Flame-Retard Biocomposite with Ethanolamine Modified Ammonium Polyphosphate and Its Flame Retardant Mechanisms. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 3524-3531	3.9	69
533	An intumescent flame retardant polypropylene system with simultaneously improved flame retardancy and water resistance. <i>Polymer Degradation and Stability</i> , 2014 , 108, 97-107	4.7	68
532	Unique crystalline/crystalline polymer blends of poly(ethylene succinate) and poly(p-dioxanone): miscibility and crystallization behaviors. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 14827-33	3.4	68
531	A phosphorus-containing inorganic compound as an effective flame retardant for glass-fiber-reinforced polyamide 6. <i>Journal of Applied Polymer Science</i> , 2011 , 119, 2379-2385	2.9	67
530	Biodegradation behavior of PHBV films in a pilot-scale composting condition. <i>Polymer Testing</i> , 2010 , 29, 579-587	4.5	67
529	Highly Flame Retardant Expanded Polystyrene Foams from Phosphorus-Nitrogen-Silicon Synergistic Adhesives. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 4649-4658	3.9	66
528	A Novel Phosphorus-Containing Poly(ethylene terephthalate) Nanocomposite with Both Flame Retardancy and Anti-Dripping Effects. <i>Macromolecular Materials and Engineering</i> , 2006 , 291, 638-645	3.9	66
527	A novel flame-retardant-free copolyester: cross-linking towards self extinguishing and non-dripping. <i>Journal of Materials Chemistry</i> , 2012 , 22, 19849		65
526	Aryl Polyphosphonates: Useful Halogen-Free Flame Retardants for Polymers. <i>Materials</i> , 2010 , 3, 4746-4759	3.9	65
525	A novel halogen-free flame retardant for glass-fiber-reinforced poly(ethylene terephthalate). <i>Polymer Degradation and Stability</i> , 2008 , 93, 1188-1193	4.7	65
524	Kinetics of thermal oxidative degradation of phosphorus-containing flame retardant copolyesters. <i>Polymer Degradation and Stability</i> , 2002 , 76, 401-409	4.7	65
523	Polyethyleneimine modified ammonium polyphosphate toward polyamine-hardener for epoxy resin: Thermal stability, flame retardance and smoke suppression. <i>Polymer Degradation and Stability</i> , 2016 , 131, 62-70	4.7	65
522	Preparation and flammability of a novel intumescent flame-retardant poly(ethylene-co-vinyl acetate) system. <i>Polymer Degradation and Stability</i> , 2008 , 93, 2186-2192	4.7	64
521	Flame retardance and thermal degradation mechanism of polystyrene modified with aluminum hypophosphite. <i>Polymer Degradation and Stability</i> , 2014 , 99, 35-42	4.7	63
520	Preparation and characterization of poly(lactic acid)-grafted TiO ₂ nanoparticles with improved dispersions. <i>Applied Surface Science</i> , 2009 , 255, 6795-6801	6.7	63
519	Super Toughened and High Heat-Resistant Poly(Lactic Acid) (PLA)-Based Blends by Enhancing Interfacial Bonding and PLA Phase Crystallization. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 5643-5655	3.9	62
518	An Effective Flame Retardant and Smoke Suppression Oligomer for Epoxy Resin. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 9397-9404	3.9	60

517	Well-Defined Amphiphilic Biodegradable Comb-Like Graft Copolymers: Their Unique Architecture-Determined LCST and UCST Thermoresponsivity. <i>Macromolecules</i> , 2011 , 44, 999-1008	5.5	60
516	A review on flame retardant technology in China. Part I: development of flame retardants. <i>Polymers for Advanced Technologies</i> , 2009 , 21, n/a-n/a	3.2	60
515	A novel intumescent flame-retardant system containing metal chelates for polyvinyl alcohol. <i>Polymer Degradation and Stability</i> , 2007 , 92, 1555-1564	4.7	60
514	A novel Schiff-base polyphosphate ester: Highly-efficient flame retardant for polyurethane elastomer. <i>Polymer Degradation and Stability</i> , 2017 , 144, 70-82	4.7	59
513	Phosphorus-containing copolyesters: The effect of ionic group and its analogous phosphorus heterocycles on their flame-retardant and anti-dripping performances. <i>Polymer</i> , 2015 , 60, 50-61	3.9	59
512	Biomass-derived Co@crystalline carbon@carbon aerogel composite with enhanced thermal stability and strong microwave absorption performance. <i>Journal of Alloys and Compounds</i> , 2018 , 736, 71-79	5.7	59
511	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
510	Preparation and characterization of nanocomposites of polyvinyl alcohol/cellulose nanowhiskers/chitosan. <i>Composites Science and Technology</i> , 2015 , 115, 60-65	8.6	58
509	Synergistic Effect of Layered Nanofillers in Intumescent Flame-Retardant EPDM: Montmorillonite versus Layered Double Hydroxides. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 8454-8463	3.9	58
508	Green Approach to Improving the Strength and Flame Retardancy of Poly(vinyl alcohol)/Clay Aerogels: Incorporating Biobased Gelatin. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 42258-42265	9.5	58
507	A novel phosphorus-containing copolyester/montmorillonite nanocomposites with improved flame retardancy. <i>European Polymer Journal</i> , 2007 , 43, 2882-2890	5.2	58
506	Biodegradation behaviors of thermoplastic starch (TPS) and thermoplastic dialdehyde starch (TPDAS) under controlled composting conditions. <i>Polymer Testing</i> , 2008 , 27, 924-930	4.5	58
505	Development of Copper Phosphate Nanoflowers on Soy Protein toward a Superhydrophobic and Self-Cleaning Film. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 869-875	8.3	57
504	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
503	Multi-stimuli sensitive supramolecular hydrogel formed by host-guest interaction between PNIPAM-Azo and cyclodextrin dimers. <i>RSC Advances</i> , 2014 , 4, 4955	3.7	57
502	Poly (N-isopropylacrylamide)/poly (ethylene oxide) blend nanofibrous scaffolds: thermo-responsive carrier for controlled drug release. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011 , 88, 749-54	6	56
501	Coated vs. naked red phosphorus: A comparative study on their fire retardancy and smoke suppression for rigid polyurethane foams. <i>Polymer Degradation and Stability</i> , 2017 , 136, 103-111	4.7	55
500	A new biodegradable copolyester poly(butylene succinate-co-ethylene succinate-co-ethylene terephthalate). <i>Acta Materialia</i> , 2004 , 52, 5871-5878	8.4	55

499	Flame-Retardant Flexible Polyurethane Foams with Highly Efficient Melamine Salt. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 7112-7119	3.9	54
498	Synthesis and Properties of Poly(Ester Urethane)s Consisting of Poly(L-Lactic Acid) and Poly(Ethylene Succinate) Segments. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 1706-1713	3.9	54
497	Preparation and properties of a novel biodegradable ethyl cellulose grafting copolymer with poly(p-dioxanone) side-chains. <i>Carbohydrate Polymers</i> , 2010 , 80, 350-359	10.3	54
496	Construction of durable eco-friendly biomass-based flame-retardant coating for cotton fabrics. <i>Chemical Engineering Journal</i> , 2021 , 410, 128361	14.7	54
495	Flame retardation of glass-fibre-reinforced polyamide 6 by a novel metal salt of alkylphosphinic acid. <i>Polymer Degradation and Stability</i> , 2011 , 96, 1538-1545	4.7	53
494	Effect of PEG on the crystallization of PPDO/PEG blends. <i>European Polymer Journal</i> , 2005 , 41, 1243-1250	5.2	53
493	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
492	Let it shine: a transparent and photoluminescent foldable nanocellulose/quantum dot paper. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 10076-9	9.5	52
491	Roles of Soft Segment Length in Structure and Property of Soy Protein Isolate/Waterborne Polyurethane Blend Films. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 1229-1235	3.9	52
490	Layer-by-layer assembled flame-retardant architecture toward high-performance carbon fiber composite. <i>Chemical Engineering Journal</i> , 2018 , 353, 550-558	14.7	52
489	Pyrolysis of waste tire on ZSM-5 zeolite with enhanced catalytic activities. <i>Polymer Degradation and Stability</i> , 2006 , 91, 2389-2395	4.7	52
488	A novel non-dripping oligomeric flame retardant for polyethylene terephthalate. <i>European Polymer Journal</i> , 2004 , 40, 1909-1913	5.2	52
487	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
486	Ultrasoft gelatin aerogels for oil contaminant removal. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 9381-9389	3.9	51
485	Development of soy protein isolate/waterborne polyurethane blend films with improved properties. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012 , 100, 16-21	6	51
484	From miscible to partially miscible biodegradable double crystalline poly(ethylene succinate)-b-poly(butylene succinate) multiblock copolymers. <i>Polymer Chemistry</i> , 2012 , 3, 399-408	4.9	51
483	A novel intumescent flame-retardant LDPE system and its thermo-oxidative degradation and flame-retardant mechanisms. <i>Polymers for Advanced Technologies</i> , 2008 , 19, 1566-1575	3.2	51
482	A novel method for preparing poly(ethylene terephthalate)/BaSO ₄ nanocomposites. <i>European Polymer Journal</i> , 2005 , 41, 2569-2574	5.2	51

- 481 A novel phosphorus-containing semi-aromatic polyester toward flame retardancy and enhanced mechanical properties of epoxy resin. *Chemical Engineering Journal*, **2020**, 380, 122471 14.7 51
- 480 Bi-DOPO Structure Flame Retardants with or without Reactive Group: Their Effects on Thermal Stability and Flammability of Unsaturated Polyester. *Industrial & Engineering Chemistry Research*, **2017**, 56, 5913-5924 3.9 50
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