

Yuan Hu

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.

415
papers

21,181
citations

82
h-index

123
g-index

428
ext. papers

25,806
ext. citations

7.5
avg, IF

7.41
L-index

#	Paper	IF	Citations
415	Graphite-like Carbon Nitride/Polyphosphoramidate Nanohybrids for Enhancement on Thermal Stability and Flame Retardancy of Thermoplastic Polyurethane Elastomers. <i>ACS Applied Polymer Materials</i> , 2022 , 4, 121-128	4.3	1
414	Cleaner production to a multifunctional polyurethane sponge with high fire safety and low toxicity release. <i>Journal of Cleaner Production</i> , 2022 , 333, 130172	10.3	0
413	A Furan-based Phosphaphenanthrene-containing Derivative as a Highly Efficient Flame-retardant Agent for Epoxy Thermosets without Deteriorating Thermomechanical Performances. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2022 , 40, 233-240	3.5	1
412	Eco-friendly thermally insulating cellulose aerogels with exceptional flame retardancy, mechanical property and thermal stability. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022 , 131, 104159	5.3	1
411	Bifunctional linear polyphosphazene decorated by allyl groups: Synthesis and application as efficient flame-retardant and toughening agent of bismaleimide. <i>Composites Part B: Engineering</i> , 2022 , 233, 109653	10	2
410	Designing thermotolerant and flame-resistant PAN-based separator via surface engineering with heteroatoms doped carbon framework encapsulated with CoS ₂ nanocatalysts towards safe lithium-sulfur batteries. <i>Composites Part B: Engineering</i> , 2022 , 233, 109644	10	1
409	Fabrication of zirconium phenylphosphonate/epoxy composites with simultaneously enhanced mechanical strength, anti-flammability and smoke suppression. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022 , 155, 106837	8.4	0
408	A multifunctional nanocomposite based on Pt-modified black phosphorus nanosheets loading with L-arginine for synergistic gas-sonodynamic cancer therapy. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 638, 128284	5.1	2
407	Construction of bismaleimide resin with enhanced flame retardancy and mechanical properties based on a novel DOPO-derived bismaleimide monomer.. <i>Journal of Colloid and Interface Science</i> , 2022 , 614, 629-641	9.3	3
406	Biodegradable L-lysine-modified amino black phosphorus/poly(L-lactide-co-ε-caprolactone) nanofibers with enhancements in hydrophilicity, shape recovery and osteodifferentiation properties. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022 , 209, 112209	6	0
405	MOF-derived strategy to obtain CuCoO _x functionalized HO-BN: A novel design to enhance the toughness, fire safety and heat resistance of bismaleimide resin. <i>Chemical Engineering Journal</i> , 2022 , 431, 134013	14.7	1
404	Integration of black phosphorene and MXene to improve fire safety and mechanical properties of waterborne polyurethane. <i>Applied Surface Science</i> , 2022 , 581, 152386	6.7	3
403	Expandable nitrogen-doped carbon-based anodes fabricated from self-sacrificial metal-organic frameworks for ultralong-life lithium storage. <i>Carbon</i> , 2022 , 186, 46-54	10.4	2
402	Exploration on structural rules of highly efficient flame retardant unsaturated polyester resins. <i>Journal of Colloid and Interface Science</i> , 2022 , 608, 142-157	9.3	8
401	A flame retardant separator modified by MOFs-derived hybrid for safe and efficient Li-S batteries. <i>Journal of Energy Chemistry</i> , 2022 , 64, 372-384	12	7
400	Functionalizing TiCT for enhancing fire resistance and reducing toxic gases of flexible polyurethane foam composites with reinforced mechanical properties. <i>Journal of Colloid and Interface Science</i> , 2022 , 607, 1300-1312	9.3	20
399	Synergistic effects of aryl diazonium modified Few-Layer black Phosphorus/Ultrafine rare earth yttrium oxide with enhancing flame retardancy and catalytic smoke toxicity suppression of epoxy resin. <i>Applied Surface Science</i> , 2022 , 571, 151356	6.7	9

398	Design of copper salt@graphene nanohybrids to accomplish excellent resilience and superior fire safety for flexible polyurethane foam. <i>Journal of Colloid and Interface Science</i> , 2022 , 606, 1205-1218	9.3	2
397	Preparation of soybean root-like CNTs/bimetallic oxides hybrid to enhance fire safety and mechanical performance of thermoplastic polyurethane. <i>Chemical Engineering Journal</i> , 2022 , 428, 132338	14.7	2
396	Hindered phenolic antioxidant passivation of black phosphorus affords air stability and free radical quenching. <i>Journal of Colloid and Interface Science</i> , 2022 , 606, 1395-1409	9.3	3
395	Designing advanced 0D-2D hierarchical structure for Epoxy resin to accomplish exceeding thermal management and safety. <i>Chemical Engineering Journal</i> , 2022 , 427, 132046	14.7	14
394	The improvement of fire safety performance of flexible polyurethane foam by Highly-efficient P-N-S elemental hybrid synergistic flame retardant. <i>Journal of Colloid and Interface Science</i> , 2022 , 606, 768-783	9.3	9
393	Construction of hierarchical Ti3C2TX@PHbP-PHC architecture with enhanced free-radical quenching capability: Effective reinforcement and fire safety performance in bismaleimide resin. <i>Chemical Engineering Journal</i> , 2022 , 427, 131634	14.7	14
392	A novel fire safety separator decorated by Co2P/Co/C multifunctional layer for Li-S batteries. <i>Journal of Alloys and Compounds</i> , 2022 , 164919	5.7	1
391	Oxygen-deficient titanium dioxide-loaded black phosphorus nanosheets for synergistic photothermal and sonodynamic cancer therapy 2022 , 212794		1
390	Covalent organic framework with Cu-containing compounds for enhancing flame retardancy and smoke suppression effects on epoxy resin. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022 , 156, 106900	8.4	0
389	A novel carbon fiber/MXene coalition prepared by a bidirectional diazotization strategy: Properties and applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 642, 128649	5.1	1
388	A flame-retardant, high ionic-conductivity and eco-friendly separator prepared by papermaking method for high-performance and superior safety lithium-ion batteries. <i>Energy Storage Materials</i> , 2022 , 48, 123-132	19.4	7
387	Innovative design of environmentally friendly silicon-based polyphosphazene-functionalized hydroxyapatite nanowires: An efficient enhancement strategy for the fire safety and mechanical properties of unsaturated polyester. <i>Chemical Engineering Journal</i> , 2022 , 437, 135489	14.7	1
386	Multifunctional fireproof electromagnetic shielding polyurethane films with thermal management performance. <i>Chemical Engineering Journal</i> , 2022 , 439, 135673	14.7	11
385	Alginate-sepiolite-ammonium polyphosphate ternary hybrid gels for firefighting in grain and cotton reserves 2022 , 52, 8		
384	Chitin based multi-layered coatings with flame retardancy an approach to mimic nacre: Synthesis, characterization and mechanical properties. <i>Carbohydrate Polymers</i> , 2022 , 119488	10.3	1
383	Innovative design of hierarchical cobalt-based borate functionalized black phosphorus structure with petal-like wrinkle: Enhancing the fire safety and mechanical properties of epoxy resin. <i>Composites Part B: Engineering</i> , 2022 , 238, 109886	10	0
382	Targeted modification of black phosphorus by MIL-53(Al) inspired by Mannikin's Law to achieve high thermal stability of flame retardant polycarbonate at ultra-low additions. <i>Composites Part B: Engineering</i> , 2022 , 238, 109943	10	3
381	Poly(dimethyl siloxane)-grafted black phosphorus nanosheets as filler to enhance moisture-resistance and flame-retardancy of thermoplastic polyurethane. <i>Materials Chemistry and Physics</i> , 2022 , 286, 126189	4.4	1

380	Graphene-based polymer composites for flame-retardant application 2022 , 61-89		0
379	Fabrication of fire safe rigid polyurethane foam with reduced release of CO and NOx and excellent physical properties by combining phosphine oxide-containing hyperbranched polyol and expandable graphite. <i>Chemical Engineering Journal</i> , 2021 , 133347	14.7	7
378	Anti-Fogging, Frost-Resistant transparent and flexible silver Nanowire-TiCT MXene based composite films for excellent electromagnetic interference shielding ability. <i>Journal of Colloid and Interface Science</i> , 2021 ,	9.3	4
377	A phosphaphenanthrene-containing vanillin derivative as co-curing agent for flame-retardant and antibacterial epoxy thermoset. <i>Polymer</i> , 2021 , 217, 123460	3.9	8
376	Phosphorus-Free Vanillin-Derived Intrinsically Flame-Retardant Epoxy Thermoset with Extremely Low Heat Release Rate and Smoke Emission. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 5268-5277	8.3	21
375	Facile synthesis of a novel zinc-triazole complex for simultaneous improvement in fire safety and mechanical properties of epoxy resins. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021 , 143, 106284	8.4	16
374	Self-healable castor oil-based waterborne polyurethane/MXene film with outstanding electromagnetic interference shielding effectiveness and excellent shape memory performance. <i>Journal of Colloid and Interface Science</i> , 2021 , 588, 164-174	9.3	72
373	Organic-inorganic hybridization of isoreticular metal-organic framework-3 with melamine for efficiently reducing the fire risk of epoxy resin. <i>Composites Part B: Engineering</i> , 2021 , 211, 108606	10	13
372	Intrinsically flame retardant cardanol-based epoxy monomer for high-performance thermosets. <i>Polymer Degradation and Stability</i> , 2021 , 186, 109519	4.7	12
371	Recent Progress in Two-dimensional Nanomaterials Following Graphene for Improving Fire Safety of Polymer (Nano)composites. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2021 , 39, 935-956	3.5	9
370	Flame-Retardant ADP/PEO Solid Polymer Electrolyte for Dendrite-Free and Long-Life Lithium Battery by Generating Al, P-rich SEI Layer. <i>Nano Letters</i> , 2021 , 21, 4447-4453	11.5	10
369	Synthesis of Ethyl (Diethoxymethyl)phosphinate Derivatives and Their Flame Retardancy in Flexible Polyurethane Foam: Structure-flame Retardancy Relationships. <i>Polymer Degradation and Stability</i> , 2021 , 188, 109557	4.7	8
368	Construction of multifunctional and flame retardant separator towards stable lithium-sulfur batteries with high safety. <i>Chemical Engineering Journal</i> , 2021 , 416, 129087	14.7	19
367	Barrier function of graphene for suppressing the smoke toxicity of polymer/black phosphorous nanocomposites with mechanism change. <i>Journal of Hazardous Materials</i> , 2021 , 404, 124106	12.8	31
366	Magnetron sputtering deposition of silicon nitride on polyimide separator for high-temperature lithium-ion batteries. <i>Journal of Energy Chemistry</i> , 2021 , 56, 1-10	12	19
365	Self-floating black phosphorous nanosheets as a carry-on solar vapor generator. <i>Journal of Colloid and Interface Science</i> , 2021 , 582, 496-505	9.3	13
364	Controllable magnetic field aligned sepiolite nanowires for high ionic conductivity and high safety PEO solid polymer electrolytes. <i>Journal of Colloid and Interface Science</i> , 2021 , 585, 596-604	9.3	16
363	Polyacrylonitrile@metal organic frameworks composite-derived heteroatoms doped carbon@encapsulated cobalt sulfide as superb sodium ion batteries anode. <i>Journal of Colloid and Interface Science</i> , 2021 , 581, 552-565	9.3	14

362	Functional covalent organic framework for exceptional Fe ²⁺ , Co ²⁺ and Ni ²⁺ removal: An upcycling strategy to achieve water decontamination and reutilization as smoke suppressant and flame retardant simultaneously. <i>Chemical Engineering Journal</i> , 2021 , 421, 127837	14.7	27
361	Functional covalent organic framework illuminate rapid and efficient capture of Cu (II) and reutilization to reduce fire hazards of epoxy resin. <i>Separation and Purification Technology</i> , 2021 , 259, 118119	8.3	14
360	The combustion and pyrolysis process of flame-retardant polystyrene/cobalt-based metal organic frameworks (MOF) nanocomposite. <i>Combustion and Flame</i> , 2021 , 226, 108-116	5.3	41
359	A novel phosphorous-containing polymeric compatibilizer: Effective reinforcement and flame retardancy in glass fiber reinforced polyamide 6 composites. <i>Composites Part B: Engineering</i> , 2021 , 205, 108536	10	19
358	Recyclable and removable functionalization based on Diels-Alder reaction of black phosphorous nanosheets and its dehydration carbonization in fire safety improvement of polymer composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021 , 140, 106157	8.4	5
357	A high performance fully bio-based epoxy thermoset from a syringaldehyde-derived epoxy monomer cured by furan-derived amine. <i>Green Chemistry</i> , 2021 , 23, 501-510	10	21
356	Polypyrrole-Coated Mesoporous TiO Nanocomposites Simultaneously Loading DOX and Aspirin Prodrugs for a Synergistic Theranostic and Anti-Inflammatory Effect.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 1483-1492	4.1	4
355	Fabrication of flexible polyurethane/phosphorus interpenetrating polymer network (IPN) foam for enhanced thermal stability, flame retardancy and mechanical properties. <i>Polymer Degradation and Stability</i> , 2021 , 189, 109602	4.7	11
354	Applications of GO/OA-POSS Layer-by-Layer self-assembly nanocoating on flame retardancy and smoke suppression of flexible polyurethane foam. <i>Polymers for Advanced Technologies</i> , 2021 , 32, 4516	3.2	3
353	Conceptually Novel Few-Layer Black Phosphorus/Supramolecular Coalition: Noncovalent Functionalization Toward Fire Safety Enhancement. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 12579-12591	3.9	1
352	Black Phosphorus Nanosheets Integrated with Gold Nanoparticles and Polypyrrole for Synergistic Sonodynamic and Photothermal Cancer Therapy. <i>ACS Applied Nano Materials</i> , 2021 , 4, 7963-7973	5.6	5
351	Heterolayered Boron Nitride/Polyaniline/Molybdenum Disulfide Nanosheets for Flame-Retardant Epoxy Resins. <i>ACS Applied Nano Materials</i> , 2021 , 4, 8162-8172	5.6	3
350	Surface modification of multi-scale cuprous oxide with tunable catalytic activity towards toxic fumes and smoke suppression of rigid polyurethane foam. <i>Applied Surface Science</i> , 2021 , 556, 149792	6.7	8
349	Phosphorus-Free Ellagic Acid-Derived Epoxy Thermosets with Intrinsic Antiflammability and High Glass Transition Temperature. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 10799-10808	8.3	7
348	Emerging two-dimensional monoelemental materials (Xenes): Fabrication, modification, and applications thereof in the field of bioimaging as nanocarriers. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2021 , e1750	9.2	2
347	Intrinsically anti-flammable and self-toughened phosphorylated cardanol-derived novolac epoxy thermosets. <i>Industrial Crops and Products</i> , 2021 , 166, 113496	5.9	7
346	Highly flame retardant, low thermally conducting, and hydrophobic phytic acid-guanazole-cellulose nanofiber composite foams. <i>Cellulose</i> , 2021 , 28, 9769-9783	5.5	1
345	Multifunctional High-Efficiency Additive with Synergistic Anion and Cation Coordination for High-Performance LiNiCoMnO Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 46783-46793	9.5	9

344	A review on metal-organic hybrids as flame retardants for enhancing fire safety of polymer composites. <i>Composites Part B: Engineering</i> , 2021 , 221, 109014	10	23
343	One-pot exfoliation and synthesis of hydroxyapatite-functionalized graphene as multifunctional nanomaterials based on electrochemical approach. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021 , 149, 106583	8.4	2
342	Sucrose derivative as a cross-linking agent in enhancing coating stability and flame retardancy of polyamide 66 textiles. <i>Progress in Organic Coatings</i> , 2021 , 159, 106438	4.8	0
341	Scalable production of hydrophobic and photo-thermal conversion bio-based 3D scaffold: Towards oil-water separation and continuous oil collection. <i>Journal of Cleaner Production</i> , 2021 , 319, 128567	10.3	9
340	Which part of metal-organic frameworks affects polymers' heat release, smoke emission and CO production behaviors more significantly, metallic component or organic ligand?. <i>Composites Part B: Engineering</i> , 2021 , 223, 109131	10	4
339	Cardanol as a versatile platform for fabrication of bio-based flame-retardant epoxy thermosets as DGEBA substitutes. <i>Chemical Engineering Journal</i> , 2021 , 421, 129738	14.7	15
338	Phosphorylated cardanol-formaldehyde oligomers as flame-retardant and toughening agents for epoxy thermosets. <i>Chemical Engineering Journal</i> , 2021 , 423, 130192	14.7	12
337	Random nano-structuring of PVA/MXene membranes for outstanding flammability resistance and electromagnetic interference shielding performances. <i>Composites Part B: Engineering</i> , 2021 , 224, 109174 ¹⁰	10	5
336	Fully bio-based epoxy resin derived from vanillin with flame retardancy and degradability. <i>Reactive and Functional Polymers</i> , 2021 , 168, 105034	4.6	4
335	Durable electromagnetic interference (EMI) shielding ramie fabric with excellent flame retardancy and Self-healing performance. <i>Journal of Colloid and Interface Science</i> , 2021 , 602, 810-821	9.3	11
334	A facile strategy for lightweight, anti-dripping, flexible polyurethane foam with low smoke emission tendency and superior electromagnetic wave blocking. <i>Journal of Colloid and Interface Science</i> , 2021 , 603, 25-36	9.3	7
333	Construction of a core-shell structure compound: Ammonium polyphosphate wrapped by rare earth compound to achieve superior smoke and toxic gases suppression for flame retardant flexible polyurethane foam composites. <i>Composites Communications</i> , 2021 , 28, 100939	6.7	3
332	Construction of multifunctional linear polyphosphazene and molybdenum diselenide hybrids for efficient fire retardant and toughening epoxy resins. <i>Chemical Engineering Journal</i> , 2021 , 426, 131839	14.7	2
331	Light stabilizer and diazo passivation of black phosphorus nanosheets: Covalent functionalization endows air stability and flame retardancy enhancements. <i>Chemical Engineering Journal</i> , 2021 , 425, 131532 ^{14.7}	14.7	3
330	Supramolecular wrapped sandwich like SW-SiN hybrid sheets as advanced filler toward reducing fire risks and enhancing thermal conductivity of thermoplastic polyurethanes. <i>Journal of Colloid and Interface Science</i> , 2021 , 603, 844-855	9.3	6
329	Facilely produced highly adhered, low thermal conductivity and non-combustible coatings for fire safety. <i>Journal of Colloid and Interface Science</i> , 2021 , 604, 378-389	9.3	4
328	A novel coating of hyperbranched poly(urethane-phosphine oxide) for poly(methyl methacrylate) with high fire safety, excellent adhesion and transparency. <i>Progress in Organic Coatings</i> , 2021 , 161, 106481 ^{4.8}	4.8	1
327	Bio-based multifunctional carbon aerogels from sugarcane residue for organic solvents adsorption and solar-thermal-driven oil removal. <i>Chemical Engineering Journal</i> , 2021 , 426, 129580	14.7	13

326	Synthesis of star-shaped allyl phosphazene small molecules for enhancing fire safety and toughness of high performance BMI resin. <i>Chemical Engineering Journal</i> , 2021 , 425, 130655	14.7	15
325	Interfacial flame retardant unsaturated polyester composites with simultaneously improved fire safety and mechanical properties. <i>Chemical Engineering Journal</i> , 2021 , 426, 131313	14.7	9
324	ICG-Loaded PEG-Modified Black Phosphorus Nanosheets for Fluorescence Imaging-Guided Breast Cancer Therapy.. <i>ACS Omega</i> , 2021 , 6, 35505-35513	3.9	2
323	Rationally designed functionalized black phosphorus nanosheets as new fire hazard suppression material for polylactic acid. <i>Polymer Degradation and Stability</i> , 2020 , 178, 109194	4.7	16
322	Self-assembly of phosphonate-metal complex for superhydrophobic and durable flame-retardant polyester cotton fabrics. <i>Cellulose</i> , 2020 , 27, 6011-6025	5.5	15
321	Construction of durable flame-retardant and robust superhydrophobic coatings on cotton fabrics for water-oil separation application. <i>Chemical Engineering Journal</i> , 2020 , 398, 125661	14.7	77
320	Combustion behavior characterization of major crops through cone calorimeter. <i>Fire and Materials</i> , 2020 , 44, 693-703	1.8	1
319	Anisotropic, low-tortuosity and ultra-thick red P@C-Wood electrodes for sodium-ion batteries. <i>Nanoscale</i> , 2020 , 12, 14642-14650	7.7	21
318	A fully bio-based coating made from alginate, chitosan and hydroxyapatite for protecting flexible polyurethane foam from fire. <i>Carbohydrate Polymers</i> , 2020 , 246, 116641	10.3	25
317	Comprehensive Property Investigation of Mold Inhibitor Treated Raw Cotton and Ramie Fabric. <i>Materials</i> , 2020 , 13,	3.5	1
316	Laponite-based inorganic-organic hybrid coating to reduce fire risk of flexible polyurethane foams. <i>Applied Clay Science</i> , 2020 , 189, 105525	5.2	12
315	Metal-organic framework@polyaniline nanoarchitecture for improved fire safety and mechanical performance of epoxy resin. <i>Materials Chemistry and Physics</i> , 2020 , 247, 122875	4.4	25
314	Rapid electrothermal response and excellent flame retardancy of ethylene-vinyl acetate electrothermal film. <i>Polymers for Advanced Technologies</i> , 2020 , 31, 1088-1098	3.2	2
313	Combustion behavior and fire security of storage grains before and after mildew. <i>Journal of Fire Sciences</i> , 2020 , 38, 395-411	1.5	5
312	Construction of porous g-C ₃ N ₄ @PPZ tubes for high performance BMI resin with enhanced fire safety and toughness. <i>Chemical Engineering Journal</i> , 2020 , 401, 126094	14.7	22
311	Integrated effect of NH ₂ -functionalized/triazine based covalent organic framework black phosphorus on reducing fire hazards of epoxy nanocomposites. <i>Chemical Engineering Journal</i> , 2020 , 401, 126058	14.7	28
310	Hydrophobic and flame-retardant finishing of cotton fabrics for water-oil separation. <i>Cellulose</i> , 2020 , 27, 4145-4159	5.5	16
309	Strongly coupled metal-organic frameworks on layered bimetallic hydroxide derived N, S Co-doped porous carbon frameworks embedding with CoS ₂ for energy storage. <i>Journal of Power Sources</i> , 2020 , 453, 227789	8.9	24

308	Nacre-Inspired Tunable Electromagnetic Interference Shielding Sandwich Films with Superior Mechanical and Fire-Resistant Protective Performance. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 6371-6382	9.5	56
307	Preparation of ECD@ferrocene@hollow mesoporous silica microsphere and investigation of its flame retardant EP. <i>Polymer Composites</i> , 2020 , 41, 2013-2024	3	4
306	Multifunctional epoxy composites with highly flame retardant and effective electromagnetic interference shielding performances. <i>Composites Part B: Engineering</i> , 2020 , 192, 107990	10	36
305	Hexagonal boron Nitride@ZnFe ₂ O ₄ hybrid nanosheet: An ecofriendly flame retardant for polyvinyl alcohol. <i>Journal of Solid State Chemistry</i> , 2020 , 287, 121366	3.3	7
304	Effects of novel phosphorus-nitrogen-containing DOPO derivative salts on mechanical properties, thermal stability and flame retardancy of flexible polyurethane foam. <i>Polymer Degradation and Stability</i> , 2020 , 177, 109160	4.7	21
303	Nacre inspired tailoring of mechanically strong hydrophobic coatings through Layer-by-Layer assembly. <i>Surface and Coatings Technology</i> , 2020 , 404, 126458	4.4	2
302	Construction of graphite oxide modified black phosphorus through covalent linkage: An efficient strategy for smoke toxicity and fire hazard suppression of epoxy resin. <i>Journal of Hazardous Materials</i> , 2020 , 399, 123015	12.8	46
301	Effect of metal-based nanoparticles decorated graphene hybrids on flammability of epoxy nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020 , 129, 105694	8.4	25
300	Multi-role p-styrene sulfonate assisted electrochemical preparation of functionalized graphene nanosheets for improving fire safety and mechanical property of polystyrene composites. <i>Composites Part B: Engineering</i> , 2020 , 181, 107544	10	20
299	Combination of black phosphorus nanosheets and MCNTs via phosphorus-carbon bonds for reducing the flammability of air stable epoxy resin nanocomposites. <i>Journal of Hazardous Materials</i> , 2020 , 383, 121069	12.8	59
298	Epoxy-based multilayers for flame resistant flexible polyurethane foam (FPUF). <i>Journal of Applied Polymer Science</i> , 2020 , 137, 48890	2.9	7
297	Black Phosphorous Nanosheets: A Novel Solar Vapor Generator. <i>Solar Rrl</i> , 2020 , 4, 1900537	7.1	12
296	Synthesis of phytic acid-based monomer for UV-Cured coating to improve fire safety of PMMA. <i>Progress in Organic Coatings</i> , 2020 , 140, 105497	4.8	11
295	Highly flame retardant zeolitic imidazole framework-8@cellulose composite aerogels as absorption materials for organic pollutants. <i>Cellulose</i> , 2020 , 27, 2237-2251	5.5	30
294	Natural antioxidant functionalization for fabricating ambient-stable black phosphorus nanosheets toward enhancing flame retardancy and toxic gases suppression of polyurethane. <i>Journal of Hazardous Materials</i> , 2020 , 387, 121971	12.8	53
293	Controlled self-template synthesis of manganese-based cuprous oxide nanoplates towards improved fire safety properties of epoxy composites. <i>Journal of Hazardous Materials</i> , 2020 , 387, 122006	12.8	8
292	Halogen and halogen-free flame retarded biologically-based polyamide with markedly suppressed smoke and toxic gases releases. <i>Composites Part B: Engineering</i> , 2020 , 184, 107737	10	14
291	Hydroxyapatite/polyurea nanocomposite: Preparation and multiple performance enhancements. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020 , 128, 105681	8.4	15

290	Zeolitic imidazolate framework-8/polyvinyl alcohol hybrid aerogels with excellent flame retardancy. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020 , 129, 105720	8.4	27
289	Synthesis of a novel liquid phosphorus-containing flame retardant for flexible polyurethane foam: Combustion behaviors and thermal properties. <i>Polymer Degradation and Stability</i> , 2020 , 171, 109029	4.7	34
288	A flame retardant sandwiched separator coated with ammonium polyphosphate wrapped by SiO ₂ on commercial polyolefin for high performance safety lithium metal batteries. <i>Applied Materials Today</i> , 2020 , 21, 100793	6.6	18
287	Polyphosphazenes-based flame retardants: A review. <i>Composites Part B: Engineering</i> , 2020 , 202, 108397	10	46
286	Electrochemical exfoliation and functionalization of black phosphorene to enhance mechanical properties and flame retardancy of waterborne polyurethane. <i>Composites Part B: Engineering</i> , 2020 , 202, 108446	10	18
285	Flame retardant treatments for polyamide 66 textiles: Analysis the role of phosphorus compounds. <i>Polymer Degradation and Stability</i> , 2020 , 182, 109376	4.7	10
284	Metal-organic frameworks for flame retardant polymers application: A critical review. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020 , 139, 106113	8.4	30
283	An environmentally friendly approach to fabricating flame retardant, antibacterial and antifungal cotton fabrics via self-assembly of guanazole-metal complex. <i>Journal of Cleaner Production</i> , 2020 , 273, 122832	10.3	18
282	Recent advances in construction of hybrid nano-structures for flame retardant polymers application. <i>Applied Materials Today</i> , 2020 , 20, 100762	6.6	16
281	Nacre-Inspired Black Phosphorus/Nanofibrillar Cellulose Composite Film with Enhanced Mechanical Properties and Superior Fire Resistance. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 36639-36651	9.5	21
280	Construction of hierarchical functionalized black phosphorus with polydopamine: A novel strategy for enhancing flame retardancy and mechanical properties of polyvinyl alcohol. <i>Chemical Engineering Journal</i> , 2020 , 402, 126212	14.7	23
279	Designing 3D ternary-structure based on SnO ₂ nanoparticles anchored hollow polypyrrole microspheres interconnected with N, S co-doped graphene towards high-performance polymer composite. <i>Chemical Engineering Journal</i> , 2020 , 402, 126221	14.7	25
278	Highly Efficient MXene-Coated Flame Retardant Cotton Fabric for Electromagnetic Interference Shielding. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 14025-14036	3.9	34
277	Fabrication of CdS/Pt/MIL-125 with Effective Spatial Separation for Improved Visible-Light Catalytic H ₂ Evolution Using γ Ray Irradiation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 18196-18205	8.3	8
276	Building of hierarchical structure of functionalized montmorillonite anchored with ZnO: Toward fabricating high-performance polyethylene composite. <i>Applied Clay Science</i> , 2020 , 196, 105767	5.2	12
275	Graphene oxide/zeolitic imidazolate frameworks-8 coating for cotton fabrics with highly flame retardant, self-cleaning and efficient oil/water separation performances. <i>Materials Chemistry and Physics</i> , 2020 , 256, 123656	4.4	11
274	Experimental Investigation on Combustion and Emission Characteristics of Wheat Before and After Mildew. <i>Combustion Science and Technology</i> , 2020 , 1-17	1.5	
273	Evolution Investigation of Combustion Behavior of Corn Based on Cone Calorimeter. <i>Combustion Science and Technology</i> , 2020 , 192, 229-239	1.5	4

272	The influence of highly dispersed CuO-anchored MoS hybrids on reducing smoke toxicity and fire hazards for rigid polyurethane foam. <i>Journal of Hazardous Materials</i> , 2020 , 382, 121028	12.8	41
271	Facile synthesis of aluminum branched oligo(phenylphosphonate) submicro-particles with enhanced flame retardance and smoke toxicity suppression for epoxy resin composites. <i>Journal of Hazardous Materials</i> , 2020 , 381, 121233	12.8	30
270	Construction of SiO ₂ @UiO-66 core-shell microarchitectures through covalent linkage as flame retardant and smoke suppressant for epoxy resins. <i>Composites Part B: Engineering</i> , 2019 , 176, 107261	10	49
269	Large-scale production of simultaneously exfoliated and Functionalized Mxenes as promising flame retardant for polyurethane. <i>Composites Part B: Engineering</i> , 2019 , 179, 107486	10	62
268	Synthesis of a novel DOPO-based polyphosphoramidate with high char yield and its application in flame-retardant epoxy resins. <i>Polymer International</i> , 2019 , 68, 936-945	3.3	9
267	Air-Stable Polyphosphazene-Functionalized Few-Layer Black Phosphorene for Flame Retardancy of Epoxy Resins. <i>Small</i> , 2019 , 15, e1805175	11	130
266	Processing bulk natural bamboo into a strong and flame-retardant composite material. <i>Industrial Crops and Products</i> , 2019 , 138, 111478	5.9	27
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264	Polyaniline-coupled graphene/nickel hydroxide nanohybrids as flame retardant and smoke suppressant for epoxy composites. <i>Polymers for Advanced Technologies</i> , 2019 , 30, 1959-1967	3.2	16
263	Highly efficient flame retardant and smoke suppression mechanism of boron modified graphene Oxide/Poly(Lactic acid) nanocomposites. <i>Carbon</i> , 2019 , 150, 8-20	10.4	49
262	Synthesis of a hyperbranched phosphorus-containing polyurethane as char forming agent combined with ammonium polyphosphate for reducing fire hazard of polypropylene. <i>Polymer Degradation and Stability</i> , 2019 , 165, 207-219	4.7	22
261	Durable flame retardant treatment of polyethylene terephthalate (PET) fabric with cross-linked layer-by-layer assembled coating. <i>Polymer Degradation and Stability</i> , 2019 , 165, 145-152	4.7	20
260	Effect of aluminum diethylphosphinate on the thermal stability and flame retardancy of flexible polyurethane foams. <i>Fire Safety Journal</i> , 2019 , 106, 72-79	3.3	29
259	Nanosized bimetal-organic frameworks as robust coating for multi-functional flexible polyurethane foam: Rapid oil-absorption and excellent fire safety. <i>Composites Science and Technology</i> , 2019 , 177, 66-72	8.6	30
258	Eco-friendly flame retardant and electromagnetic interference shielding cotton fabrics with multi-layered coatings. <i>Chemical Engineering Journal</i> , 2019 , 372, 1077-1090	14.7	141
257	Electrochemically Exfoliated Functionalized Black Phosphorene and Its Polyurethane Acrylate Nanocomposites: Synthesis and Applications. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 13652-13664	9.5	42
256	Hierarchical hollow SiO ₂ @TiO ₂ sphere structure for enhancing the lubrication and photo-catalytic degradation of liquid paraffin. <i>Composites Part B: Engineering</i> , 2019 , 167, 599-607	10	13
255	Comparable investigation of trivalent and pentavalent phosphorus based flame retardants on improving the safety and capacity of lithium-ion batteries. <i>Journal of Power Sources</i> , 2019 , 420, 143-151	8.9	24

254	Nano-bridge effects of carbon nanotubes on the properties reinforcement of two-dimensional molybdenum disulfide/polymer composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019 , 121, 36-44	8.4	14
253	Reinforcement of layer-by-layer self-assembly coating modified cellulose nanofibers to reduce the flammability of polyvinyl alcohol. <i>Cellulose</i> , 2019 , 26, 3183-3192	5.5	5
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250	Intrinsically flame retardant bio-based epoxy thermosets: A review. <i>Composites Part B: Engineering</i> , 2019 , 179, 107487	10	55
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246	Fabrication of an anode composed of a N, S co-doped carbon nanotube hollow architecture with CoS confined within: toward Li and Na storage. <i>Nanoscale</i> , 2019 , 11, 20996-21007	7.7	45
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237	Cardanol derived benzoxazine in combination with boron-doped graphene toward simultaneously improved toughening and flame retardant epoxy composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019 , 116, 13-23	8.4	70

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231	Constructing phosphorus, nitrogen, silicon-co-contained boron nitride nanosheets to reinforce flame retardant properties of unsaturated polyester resin. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 109, 546-554	8.4	51
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229	Highly-efficient reinforcement and flame retardancy of rigid polyurethane foam with phosphorus-containing additive and nitrogen-containing compound. <i>Materials Chemistry and Physics</i> , 2018 , 211, 42-53	4.4	47
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201	Facile fabrication of organically modified boron nitride nanosheets and its effect on the thermal stability, flame retardant, and mechanical properties of thermoplastic polyurethane. <i>Polymers for Advanced Technologies</i> , 2018 , 29, 2545-2552	3.2	29

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193	An infiltration method to synthesize thermoplastic polyurethane composites based on size-controlled graphene foams. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 97, 67-75	8.4	13
192	Synthesis of highly active HM-SiO ₂ @CeO ₂ /NiO hybrids for fire safety applications of epoxy resins. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 95, 337-345	8.4	18
191	Preparation of Metal-Organic Frameworks and Their Application as Flame Retardants for Polystyrene. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 2036-2045	3.9	91
190	Fabrication and Properties of Biobased Layer-by-Layer Coated Ramie Fabric-Reinforced Unsaturated Polyester Resin Composites. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 4758-4767	3.9	18
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187	In situ preparation of reduced graphene oxide/DOPO-based phosphoramidate hybrids towards high-performance epoxy nanocomposites. <i>Composites Part B: Engineering</i> , 2017 , 123, 154-164	10	106
186	Influences of metal ions crosslinked alginate based coatings on thermal stability and fire resistance of cotton fabrics. <i>Carbohydrate Polymers</i> , 2017 , 170, 133-139	10.3	54
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178	Facile Construction of Flame-Retardant-Wrapped Molybdenum Disulfide Nanosheets for Properties Enhancement of Thermoplastic Polyurethane. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 7229-7238	3.9	42
177	Synthesis of Phosphorylated Graphene Oxide Based Multilayer Coating: Self-Assembly Method and Application for Improving the Fire Safety of Cotton Fabrics. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 6664-6670	3.9	29
176	Two-Dimensional Metal Phenylphosphonates as Novel Flame Retardants for Polystyrene. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 7192-7206	3.9	21
175	Novel graphite-like carbon nitride/organic aluminum diethylhypophosphites nanohybrid: Preparation and enhancement on thermal stability and flame retardancy of polystyrene. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 99, 149-156	8.4	30
174	Effect of cuprous oxide with different sizes on thermal and combustion behaviors of unsaturated polyester resin. <i>Journal of Hazardous Materials</i> , 2017 , 334, 39-48	12.8	32
173	Graphitic carbon nitride/phosphorus-rich aluminum phosphinates hybrids as smoke suppressants and flame retardants for polystyrene. <i>Journal of Hazardous Materials</i> , 2017 , 332, 87-96	12.8	150
172	Renewable Cardanol-Based Phosphate as a Flame Retardant Toughening Agent for Epoxy Resins. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 3409-3416	8.3	131
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170	Urchinlike Shells of TiO ₂ Hollow Spheres for Improving the Fire Safety of Epoxy Resin. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 1341-1348	3.9	14
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163	Bi ₂ Se ₃ nanosheets: Advanced nanofillers for reinforcing and flame retarding polyethylene nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 100, 371-380	8.4	10
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158	Hypophosphite/Graphitic Carbon Nitride Hybrids: Preparation and Flame-Retardant Application in Thermoplastic Polyurethane. <i>Nanomaterials</i> , 2017 , 7,	5.4	49
157	Enhanced fire-retardancy of poly(ethylene vinyl acetate) electrical cable coatings containing microencapsulated ammonium polyphosphate as intumescent flame retardant. <i>RSC Advances</i> , 2016 , 6, 85564-85573	3.7	21
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155	An inherently flame-retardant polyamide containing a phosphorus pendent group prepared by interfacial polymerization. <i>RSC Advances</i> , 2016 , 6, 81802-81808	3.7	16
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152	Facile Synthesis of a Highly Efficient, Halogen-Free, and Intumescent Flame Retardant for Epoxy Resins: Thermal Properties, Combustion Behaviors, and Flame-Retardant Mechanisms. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 10868-10879	3.9	64
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149	Processable Dispersions of Graphitic Carbon Nitride Based Nanohybrids and Application in Polymer Nanocomposites. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 7646-7654	3.9	17
148	Synergistic effect of graphitic carbon nitride and ammonium polyphosphate for enhanced thermal and flame retardant properties of polystyrene. <i>Materials Chemistry and Physics</i> , 2016 , 177, 283-292	4.4	40
147	Electrical conductive and graphitizable polymer nanofibers grafted on graphene nanosheets: Improving electrical conductivity and flame retardancy of polypropylene. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 84, 76-86	8.4	38

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144	Synthesis and characterization of MnO ₂ nanosheets based multilayer coating and applications as a flame retardant for flexible polyurethane foam. <i>Composites Science and Technology</i> , 2016 , 123, 212-221	8.6	50
143	The influence of graphene based smoke suppression agents on reduced fire hazards of polystyrene composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 80, 217-227	8.4	81
142	Effect of Fully Biobased Coatings Constructed via Layer-by-Layer Assembly of Chitosan and Lignosulfonate on the Thermal, Flame Retardant, and Mechanical Properties of Flexible Polyurethane Foam. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 1431-1438	8.3	88
141	Defect-free MoS ₂ nanosheets: Advanced nanofillers for polymer nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 81, 61-68	8.4	32
140	Fabrication of LDH nanosheets on EFeOOH rods and applications for improving the fire safety of epoxy resin. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 80, 259-269	8.4	74
139	The influence of melamine phosphate modified MoS ₂ on the thermal and flammability of poly(butylene succinate) composites. <i>Polymers for Advanced Technologies</i> , 2016 , 27, 1397-1400	3.2	18
138	Space-Confined Growth of Defect-Rich Molybdenum Disulfide Nanosheets Within Graphene: Application in The Removal of Smoke Particles and Toxic Volatiles. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 34735-34743	9.5	35
137	Fabrication of flame retardant coating on cotton fabric by alternate assembly of exfoliated layered double hydroxides and alginate. <i>RSC Advances</i> , 2016 , 6, 111950-111958	3.7	31
136	Fabrication of montmorillonite and titanate nanotube based coatings via layer-by-layer self-assembly method to enhance the thermal stability, flame retardancy and ultraviolet protection of polyethylene terephthalate (PET) fabric. <i>RSC Advances</i> , 2016 , 6, 53625-53634	3.7	23
135	The influence of cobalt oxide/graphene hybrids on thermal degradation, fire hazards and mechanical properties of thermoplastic polyurethane composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 88, 10-18	8.4	85
134	Molybdenum disulfide nanosheets as barrier enhancing nanofillers in thermal decomposition of polypropylene composites. <i>Chemical Engineering Journal</i> , 2016 , 295, 278-287	14.7	37
133	Effect of Molybdenum Trioxide-Loaded Graphene and Cuprous Oxide-Loaded Graphene on Flame Retardancy and Smoke Suppression of Polyurethane Elastomer. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 4930-4941	3.9	29
132	Thermal exfoliation of hexagonal boron nitride for effective enhancements on thermal stability, flame retardancy and smoke suppression of epoxy resin nanocomposites via sol-gel process. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 7330-7340	13	265
131	The influence of zinc hydroxystannate on reducing toxic gases (CO, NO(x) and HCN) generation and fire hazards of thermoplastic polyurethane composites. <i>Journal of Hazardous Materials</i> , 2016 , 314, 260-269	12.8	82
130	Studies on Synthesis of Electrochemically Exfoliated Functionalized Graphene and Polylactic Acid/Ferric Phytate Functionalized Graphene Nanocomposites as New Fire Hazard Suppression Materials. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 25552-62	9.5	92
129	Preparation of Schiff base decorated graphene oxide and its application in TPU with enhanced thermal stability. <i>RSC Advances</i> , 2016 , 6, 90018-90023	3.7	16

128	In situ loading ultra-small CuO nanoparticles on 2D hierarchical TiO-graphene oxide dual-nanosheets: Towards reducing fire hazards of unsaturated polyester resin. <i>Journal of Hazardous Materials</i> , 2016 , 320, 504-512	12.8	67
127	The effect of carbon nanotubes/NiFe ₂ O ₄ on the thermal stability, combustion behavior and mechanical properties of unsaturated polyester resin. <i>RSC Advances</i> , 2016 , 6, 96974-96983	3.7	7
126	Phosphorus and Nitrogen-Containing Polyols: Synergistic Effect on the Thermal Property and Flame Retardancy of Rigid Polyurethane Foam Composites. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 10813-10822	3.9	112
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124	Fabrication of binary hybrid-filled layer-by-layer coatings on flexible polyurethane foams and studies on their flame-retardant and thermal properties. <i>RSC Advances</i> , 2016 , 6, 78286-78295	3.7	12
123	Recent advances for microencapsulation of flame retardant. <i>Polymer Degradation and Stability</i> , 2015 , 113, 96-109	4.7	80
122	Enhanced thermal and flame retardant properties of flame-retardant-wrapped graphene/epoxy resin nanocomposites. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 8034-8044	13	317
121	Hyper-branched polymer grafting graphene oxide as an effective flame retardant and smoke suppressant for polystyrene. <i>Journal of Hazardous Materials</i> , 2015 , 300, 58-66	12.8	99
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118	Fabrication of carbon black coated flexible polyurethane foam for significantly improved fire safety. <i>RSC Advances</i> , 2015 , 5, 55870-55878	3.7	19
117	MoS ₂ nanolayers grown on carbon nanotubes: an advanced reinforcement for epoxy composites. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 6070-81	9.5	150
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115	Self-assembly fabrication of hollow mesoporous silica@Co-Al layered double hydroxide@graphene and application in toxic effluents elimination. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 8506-14	9.5	41
114	Aluminum hypophosphite microencapsulated to improve its safety and application to flame retardant polyamide 6. <i>Journal of Hazardous Materials</i> , 2015 , 294, 186-94	12.8	90
113	Thermal and flame retardant properties of transparent UV-curing epoxy acrylate coatings with POSS-based phosphonate acrylate. <i>RSC Advances</i> , 2015 , 5, 75254-75262	3.7	30
112	Flame retardant and anti-dripping properties of polylactic acid/poly(bis(phenoxy)phosphazene)/expandable graphite composite and its flame retardant mechanism. <i>RSC Advances</i> , 2015 , 5, 76068-76078	3.7	40
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109	Layered double hydroxide-decorated flexible polyurethane foam: significantly improved toxic effluent elimination. <i>RSC Advances</i> , 2015 , 5, 97458-97466	3.7	24
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