Xiu-Li Wang Wang

List of Publications by Year in Descending Order

350 papers	17,216 citations	73 h-index	113 g-index
364 ext. papers	20,045 ext. citations	8 avg, IF	7.1 L-index

#	Paper	IF	Citations
350	Ionic Liquid-Impregnated ZIF-8/Polypropylene Solid-like Electrolyte for Dendrite-free Lithium-Metal Batteries.. *ACS Applied Materials & Interfaces*, **2022**,	9.5	7
349	Boosting safety and performance of lithium-ion battery enabled by cooperation of thermotolerant fire-retardant composite membrane and nonflammable electrolyte. *Chemical Engineering Journal*, **2022**, 432, 134394	14.7	4
348	Trinity effect of potassium sulfonate-benzimidozale towards self-intumescent flame-retarded polyester with low fire hazards. *Chemical Engineering Journal*, **2022**, 429, 132121	14.7	0
347	Photonic Cellulose Films with Vivid Structural Colors: Fabrication and Selectively Chemical Response.. *Biomacromolecules*, **2022**,	6.9	2
346	Flame-retardation of thermoplastic polyesters via cyclotetramerization from phthalonitrile to phthalocyanine: Pyrolysis processes and fire behaviour. *Polymer Degradation and Stability*, **2022**, 200, 109939	4.7	
345	Durable macromolecular firefighting for unsaturated polyester via integrating synergistic charring and hydrogen bond. *Chemical Engineering Journal*, **2022**, 443, 136365	14.7	3
344	Superhydrophobic and thermochromic VO2-Based composite coatings for energy-saving smart windows. *Composites Communications*, **2022**, 32, 101167	6.7	0
343	Durable flame-retardant cotton fabrics with tannic acid complexed by various metal ions. *Polymer Degradation and Stability*, **2022**, 109997	4.7	1
342	Multifunctional Hyphae Carbon Powering Lithium Sulfur Batteries. *Advanced Materials*, **2021**, e2107415	24	15
341	Ultrafast Synthesis of I-Rich Lithium Argyrodite Glass-Ceramic Electrolyte with High Ionic Conductivity. *Advanced Materials*, **2021**, e2107346	24	5
340	A Three-Dimensional Electrospun LiLaZrTaO-Poly (Vinylidene Fluoride-Hexafluoropropylene) Gel Polymer Electrolyte for Rechargeable Solid-State Lithium Ion Batteries. *Frontiers in Chemistry*, **2021**, 9, 751476	5	1
339	Single-Crystal-Layered Ni-Rich Oxide Modified by Phosphate Coating Boosting Interfacial Stability of Li SnP S -Based All-Solid-State Li Batteries. *Small*, **2021**, 17, e2103830	11	4
338	Bio-inspired non-iridescent structural coloration enabled by self-assembled cellulose nanocrystal composite films with balanced ordered/disordered arrays. *Composites Part B: Engineering*, **2021**, 229, 109456	10	2
337	High-fire-safety thermoplastic polyester constructed by novel sulfonate with benzimidazole structure. *Science China Materials*, **2021**, 64, 2067-2080	7.1	1
336	Sodium-storage behavior of electron-rich element-doped amorphous carbon. *Applied Physics Reviews*, **2021**, 8, 011402	17.3	8
335	Fluorinated Interface Layer with Embedded Zinc Nanoparticles for Stable Lithium-Metal Anodes. *ACS Applied Materials & Interfaces*, **2021**, 13, 17690-17698	9.5	2
334	Eco-friendly synergistic cross-linking flame-retardant strategy with smoke and melt-dripping suppression for condensation polymers. *Composites Part B: Engineering*, **2021**, 211, 108664	10	16

333	Targeted Copolymerization in Amorphous Regions for Constructing Crystallizable Functionalized Copolymers. *Macromolecules*, **2021**, 54, 4412-4422	5.5	2
332	Self-Healing Properties of Alkali Metals under High-Energy Conditions in Batteries. *Advanced Energy Materials*, **2021**, 11, 2100470	21.8	6
331	Porous Composite Gel Polymer Electrolyte with Interfacial Transport Pathways for Flexible Quasi Solid Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2021**, 13, 23743-23750	9.5	4
330	Biomimetic construction peanut-leaf structure on ammonium polyphosphate surface: Improving its compatibility with poly(lactic acid) and flame-retardant efficiency simultaneously. *Chemical Engineering Journal*, **2021**, 412, 128737	14.7	16
329	Robust LiPSI Interlayer to Stabilize the Tailored Electrolyte LiSnPSF/Li Metal Interface. *ACS Applied Materials & Interfaces*, **2021**, 13, 30739-30745	9.5	3
328	N-Doped NiO Nanosheet Arrays as Efficient Electrocatalysts for Hydrogen Evolution Reaction. *Journal of Electronic Materials*, **2021**, 50, 5072	1.9	4
327	A Facile Way to Construct Stable and Ionic Conductive Lithium Sulfide Nanoparticles Composed Solid Electrolyte Interphase on Li Metal Anode. *Advanced Functional Materials*, **2021**, 31, 2006380	15.6	19
326	Flame-responsive aryl ether nitrile structure towards multiple fire hazards suppression of thermoplastic polyester. *Journal of Hazardous Materials*, **2021**, 403, 123714	12.8	16
325	Recent progress on the phase modulation of molybdenum disulphide/diselenide and their applications in electrocatalysis. *Journal of Materials Chemistry A*, **2021**, 9, 1418-1428	13	12
324	Toward strong and super-toughened PLA via incorporating a novel fully bio-based copolyester containing cyclic sugar. *Composites Part B: Engineering*, **2021**, 207, 108558	10	7
323	Development of polylactic acid-based materials with highly and balanced mechanical performances via incorporating a furan ring-containing unsaturated copolyester. *Composites Communications*, **2021**, 23, 100543	6.7	2
322	Superamphiphobic and flame-retardant coatings with highly chemical and mechanical robustness. *Chemical Engineering Journal*, **2021**, 421, 127793	14.7	9
321	In situ formation of a Li3N-rich interface between lithium and argyrodite solid electrolyte enabled by nitrogen doping. *Journal of Materials Chemistry A*, **2021**, 9, 13531-13539	13	15
320	Porous Polyamide Skeleton-Reinforced Solid-State Electrolyte: Enhanced Flexibility, Safety, and Electrochemical Performance. *ACS Applied Materials & Interfaces*, **2021**, 13, 11018-11025	9.5	11
319	A Powerful One-Step Puffing Carbonization Method for Construction of Versatile Carbon Composites with High-Efficiency Energy Storage. *Advanced Materials*, **2021**, 33, e2102796	24	18
318	A Versatile Li6.5In0.25P0.75S5I Sulfide Electrolyte Triggered by Ultimate-Energy Mechanical Alloying for All-Solid-State Lithium Metal Batteries. *Advanced Energy Materials*, **2021**, 11, 2101521	21.8	8
317	Rapid Synthesis of Polymer-Grafted Cellulose Nanofiber Nanocomposite via Surface-Initiated Cu(0)-Mediated Reversible Deactivation Radical Polymerization. *Macromolecules*, **2021**, 54, 7409-7420	5.5	1
316	Heterovalent Cation Substitution to Enhance the Ionic Conductivity of Halide Electrolytes. *ACS Applied Materials & Interfaces*, **2021**, 13, 47610-47618	9.5	4

315	A Quadruple-Biomimetic surface for spontaneous and efficient fog harvesting. *Chemical Engineering Journal*, **2021**, 422, 130119	14.7	20
314	Interface issues of lithium metal anode for high-energy batteries: Challenges, strategies, and perspectives. *InformaMaterly*, **2021**, 3, 155-174	23.1	72
313	High Performance Single-Crystal Ni-Rich Cathode Modification via Crystalline LLTO Nanocoating for All-Solid-State Lithium Batteries.. *ACS Applied Materials & Interfaces*, **2021**,	9.5	4
312	Flexible Photonic Cellulose Nanocrystal Films as a Platform with Multisensing Functions. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 18484-18491	8.3	13
311	Synergy effect between quaternary phosphonium ionic liquid and ammonium polyphosphate toward flame retardant PLA with improved toughness. *Composites Part B: Engineering*, **2020**, 197, 108192	10	34
310	Electrode Design for Lithium–Sulfur Batteries: Problems and Solutions. *Advanced Functional Materials*, **2020**, 30, 1910375	15.6	109
309	In situ phthalocyanine synthesis chemistry in flames towards molecular fireproof engineering. *Chemical Communications*, **2020**, 56, 9525-9528	5.8	5
308	A Bioinspired Slippery Surface with Stable Lubricant Impregnation for Efficient Water Harvesting. *ACS Applied Materials & Interfaces*, **2020**, 12, 12373-12381	9.5	39
307	Fire hazards management for polymeric materials via synergy effects of pyrolysates-fixation and aromatized-charring. *Journal of Hazardous Materials*, **2020**, 389, 122040	12.8	17
306	Synergy of Ion Doping and Spiral Array Architecture on Ti2Nb10O29: A New Way to Achieve High-Power Electrodes. *Advanced Functional Materials*, **2020**, 30, 2002665	15.6	24
305	New methods for flame-retarding PET without melt dripping. *Chinese Science Bulletin*, **2020**, 65, 3160-3172	1.9	3
304	Promotion effect of nitrogen-doped functional carbon nanodots on the early growth stage of plants **2020**, 1,		3
303	Bioinspired fabrication of asymmetric wood materials for directional liquid manipulation and transport. *Chemical Engineering Journal*, **2020**, 383, 123168	14.7	14
302	Boosting fast energy storage by synergistic engineering of carbon and deficiency. *Nature Communications*, **2020**, 11, 132	17.4	61
301	Enhanced bioaccumulation efficiency and tolerance for Cd (II) in Arabidopsis thaliana by amphoteric nitrogen-doped carbon dots. *Ecotoxicology and Environmental Safety*, **2020**, 190, 110108	7	12
300	Strong and Tough Polylactic Acid Based Composites Enabled by Simultaneous Reinforcement and Interfacial Compatibilization of Microfibrillated Cellulose. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 1573-1582	8.3	35
299	How Hydrogen Bond Interactions Affect the Flame Retardancy and Anti-Dripping Performances of PET. *Macromolecular Materials and Engineering*, **2020**, 305, 1900661	3.9	13
298	Impacts of surface chemistry of functional carbon nanodots on the plant growth. *Ecotoxicology and Environmental Safety*, **2020**, 206, 111220	7	12

297	Coupling a Sponge Metal Fibers Skeleton with In Situ Surface Engineering to Achieve Advanced Electrodes for Flexible Lithium-Sulfur Batteries. *Advanced Materials*, **2020**, 32, e2003657	24	45
296	Improved Ionic Conductivity and Li Dendrite Suppression Capability toward LiPS-Based Solid Electrolytes Triggered by Nb and O Cosubstitution. *ACS Applied Materials & Interfaces*, **2020**, 12, 54662-54670	9.5	17
295	Potassium Hexafluorophosphate Additive Enables Stable Lithium-Sulfur Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 56017-56026	9.5	14
294	A highly-effective ionic liquid flame retardant towards fire-safety waterborne polyurethane (WPU) with excellent comprehensive performance. *Polymer*, **2020**, 205, 122780	3.9	13
293	Chameleon-Inspired Variable Coloration Enabled by a Highly Flexible Photonic Cellulose Film. *ACS Applied Materials & Interfaces*, **2020**, 12, 46710-46718	9.5	29
292	Anchoring SnS on TiC/C Backbone to Promote Sodium Ion Storage by Phosphate Ion Doping. *Small*, **2020**, 16, e2004072	11	21
291	Exploring the Stability Effect of the Co-Substituted P2-Na[MnNi]O Cathode for Liquid- and Solid-State Sodium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 41477-41484	9.5	8
290	A gel polymer electrolyte based on PVDF-HFP modified double polymer matrices via ultraviolet polymerization for lithium-sulfur batteries. *Journal of Colloid and Interface Science*, **2020**, 558, 145-154	9.3	32
289	Construction of 1T-MoSe /TiC@C Branch-Core Arrays as Advanced Anodes for Enhanced Sodium Ion Storage. *ChemSusChem*, **2020**, 13, 1575-1581	8.3	17
288	A superhydrophobic coating to create multi-functional materials with mechanical/chemical/physical robustness. *Chemical Engineering Journal*, **2020**, 381, 122539	14.7	19
287	Multifunctional interlayer with simultaneously capturing and catalytically converting polysulfides for boosting safety and performance of lithium-sulfur batteries at high-low temperatures. *Journal of Energy Chemistry*, **2020**, 50, 248-259	12	15
286	Bacterium, Fungus, and Virus Microorganisms for Energy Storage and Conversion. *Small Methods*, **2019**, 3, 1900596	12.8	59
285	Simultaneously enhance both the flame retardancy and toughness of polylactic acid by the cooperation of intumescent flame retardant and bio-based unsaturated polyester. *Polymer Degradation and Stability*, **2019**, 168, 108961	4.7	14
284	Ordered lithiophilic sites to regulate Li plating/stripping behavior for superior lithium metal anodes. *Journal of Materials Chemistry A*, **2019**, 7, 21794-21801	13	49
283	Highly-efficient separation of oil and water enabled by a silica nanoparticle coating with pH-triggered tunable surface wettability. *Journal of Colloid and Interface Science*, **2019**, 557, 65-75	9.3	27
282	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
281	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. *Composites Science and Technology*, **2019**, 173, 1-6	8.6	20
280	3D printable robust shape memory PET copolyesters with fire safety via □stacking and synergistic crosslinking. *Journal of Materials Chemistry A*, **2019**, 7, 17037-17045	13	38

279	Coupled Biphase (1T-2H)-MoSe on Mold Spore Carbon for Advanced Hydrogen Evolution Reaction. *Small*, **2019**, 15, e1901796	11	54
278	A green and facile way to prepare methylcellulose-based porous polymer electrolytes with high lithium-ion conductivity. *Polymer*, **2019**, 176, 256-263	3.9	8
277	Semi-aromatic copolyesters with high strength and fire safety via hydrogen bonds and □stacking. *Chemical Engineering Journal*, **2019**, 374, 694-705	14.7	37
276	SnO Nanoflake Arrays Coated with Polypyrrole on a Carbon Cloth as Flexible Anodes for Sodium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 24198-24204	9.5	60
275	A fully bio-based composite coating with mechanical robustness and dual superlyophobicity for efficient two-way oil/water separation. *Journal of Colloid and Interface Science*, **2019**, 549, 123-132	9.3	13
274	Molybdenum Selenide Electrocatalysts for Electrochemical Hydrogen Evolution Reaction. *ChemElectroChem*, **2019**, 6, 3530-3548	4.3	42
273	A multicolor electrochromic film based on a SnO2/V2O5 core/shell structure for adaptive camouflage. *Journal of Materials Chemistry C*, **2019**, 7, 5702-5709	7.1	33
272	Constructing hierarchically hydrophilic/superhydrophobic ZIF-8 pattern on soy protein towards a biomimetic efficient water harvesting material. *Chemical Engineering Journal*, **2019**, 369, 1040-1048	14.7	52
271	Implanting Niobium Carbide into Trichoderma Spore Carbon: a New Advanced Host for Sulfur Cathodes. *Advanced Materials*, **2019**, 31, e1900009	24	132
270	Enhancement of the advanced Na storage performance of Na3V2(PO4)3 in a symmetric sodium full cell via a dual strategy design. *Journal of Materials Chemistry A*, **2019**, 7, 10231-10238	13	32
269	Nitrogen-Doped Sponge Ni Fibers as Highly Efficient Electrocatalysts for Oxygen Evolution Reaction. *Nano-Micro Letters*, **2019**, 11, 21	19.5	46
268	Polypyrrole-Coated Sodium Manganate Hollow Microspheres as a Superior Cathode for Sodium Ion Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 15630-15637	9.5	21
267	Multiscale Graphene-Based Materials for Applications in Sodium Ion Batteries. *Advanced Energy Materials*, **2019**, 9, 1803342	21.8	146
266	High-Index-Faceted NiS Branch Arrays as Bifunctional Electrocatalysts for Efficient Water Splitting. *Nano-Micro Letters*, **2019**, 11, 12	19.5	50
265	Bi-containing Electrolyte Enables Robust and Li Ion Conductive Solid Electrolyte Interphase for Advanced Lithium Metal Anodes. *Frontiers in Chemistry*, **2019**, 7, 952	5	7
264	Multiscale Porous Carbon Nanomaterials for Applications in Advanced Rechargeable Batteries. *Batteries and Supercaps*, **2019**, 2, 9-36	5.6	41
263	Non-Newtonian Fluid State K□Na Alloy for a Stretchable Energy Storage Device. *Small Methods*, **2019**, 3, 1900383	12.8	22
262	Poly(ionic liquid)-Based Hybrid Hierarchical Free-Standing Electrolytes with Enhanced Ion Transport and Fire Retardancy Towards Long-Cycle-Life and Safe Lithium Batteries. *ChemElectroChem*, **2019**, 6, 3674-3683	4.3	10

261	A Bifunctional Alginate-Based Composite Hydrogel with Synergistic Pollutant Adsorption and Photocatalytic Degradation Performance. *Industrial & Engineering Chemistry Research*, **2019**, 58, 13133-13144	3.9	18
260	Dual effect of dynamic vulcanization of biobased unsaturated polyester: Simultaneously enhance the toughness and fire safety of Poly(lactic acid). *Composites Part B: Engineering*, **2019**, 175, 107069	10	15
259	One-step preparation of poly(ionic liquid)-based flexible electrolytes by in-situ polymerization for dendrite-free lithium ion batteries. *Chemical Engineering Journal*, **2019**, 375, 122062	14.7	28
258	Synergistic Doping and Intercalation: Realizing Deep Phase Modulation on MoS Arrays for High-Efficiency Hydrogen Evolution Reaction. *Angewandte Chemie - International Edition*, **2019**, 58, 16289-16296	16.4	113
257	Defect Promoted Capacity and Durability of N-MnO Branch Arrays via Low-Temperature NH Treatment for Advanced Aqueous Zinc Ion Batteries. *Small*, **2019**, 15, e1905452	11	103
256	Enhanced Li-Storage of Ni S Nanowire Arrays with N-Doped Carbon Coating Synthesized by One-Step CVD Process and Investigated Via Ex Situ TEM. *Small*, **2019**, 15, e1904433	11	10
255	Boosting High-Rate Sodium Storage Performance of N-Doped Carbon-Encapsulated Na V (PO) Nanoparticles Anchoring on Carbon Cloth. *Small*, **2019**, 15, e1902432	11	35
254	Ti Self-Doped Li Ti O Anchored on N-Doped Carbon Nanofiber Arrays for Ultrafast Lithium-Ion Storage. *Small*, **2019**, 15, e1905296	11	35
253	Synergistic Doping and Intercalation: Realizing Deep Phase Modulation on MoS2 Arrays for High-Efficiency Hydrogen Evolution Reaction. *Angewandte Chemie*, **2019**, 131, 16435-16442	3.6	13
252	High Capacity and Superior Rate Performances Coexisting in Carbon-Based Sodium-Ion Battery Anode. *Research*, **2019**, 2019, 6930294	7.8	7
251	Bioinspired large-scale production of multidimensional high-rate anodes for both liquid & solid-state lithium ion batteries. *Journal of Materials Chemistry A*, **2019**, 7, 22958-22966	13	15
250	Porous Carbon Hosts for Lithium-Sulfur Batteries. *Chemistry - A European Journal*, **2019**, 25, 3710-3725	4.8	85
249	Controlling Self-Assembly of Cellulose Nanocrystal to Synergistically Regulate (001) Reactive Facets and Hierarchical Pore Structure of Anatase Nano-TiO2 for High Photocatalytic Activity. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 1973-1979	8.3	6
248	In Situ Solid Electrolyte Interphase from Spray Quenching on Molten Li: A New Way to Construct High-Performance Lithium-Metal Anodes. *Advanced Materials*, **2019**, 31, e1806470	24	101
247	Bioinspired Color Changing Molecular Sensor toward Early Fire Detection Based on Transformation of Phthalonitrile to Phthalocyanine. *Advanced Functional Materials*, **2019**, 29, 1806586	15.6	44
246	Self-complementary hydrogen-bond interactions of guanosine: a hub for constructing supra-amphiphilic polymers with controlled molecular structure and aggregate morphology. *Soft Matter*, **2018**, 15, 102-108	3.6	2
245	Tough and flame-retardant poly(lactic acid) composites prepared via reactive blending with biobased ammonium phytate and in situ formed crosslinked polyurethane. *Composites Communications*, **2018**, 8, 52-57	6.7	44
244	Pine-Needle-Like Cu-Co Skeleton Composited with Li Ti O Forming Core-Branch Arrays for High-Rate Lithium Ion Storage. *Small*, **2018**, 14, e1704339	11	36

243	Metal-Embedded Porous Graphitic Carbon Fibers Fabricated from Bamboo Sticks as a Novel Cathode for Lithium-Sulfur Batteries. *ACS Applied Materials & Interfaces*, **2018**, 10, 13598-13605	9.5	44
242	Biomimetic Optical Cellulose Nanocrystal Films with Controllable Iridescent Color and Environmental Stimuli-Responsive Chromism. *ACS Applied Materials & Interfaces*, **2018**, 10, 5805-5811	9.5	97
241	Confining Sulfur in Integrated Composite Scaffold with Highly Porous Carbon Fibers/Vanadium Nitride Arrays for High-Performance Lithium–Sulfur Batteries. *Advanced Functional Materials*, **2018**, 28, 1706391	15.6	258
240	Highly thermostable and durably flame-retardant unsaturated polyester modified by a novel polymeric flame retardant containing Schiff base and spirocyclic structures. *Chemical Engineering Journal*, **2018**, 344, 419-430	14.7	79
239	Recent Developments of All-Solid-State Lithium Secondary Batteries with Sulfide Inorganic Electrolytes. *Chemistry - A European Journal*, **2018**, 24, 6007-6018	4.8	36
238	Rationally Designed Silicon Nanostructures as Anode Material for Lithium-Ion Batteries. *Advanced Engineering Materials*, **2018**, 20, 1700591	3.5	72
237	Popcorn Inspired Porous Macrocellular Carbon: Rapid Puffing Fabrication from Rice and Its Applications in Lithium–Sulfur Batteries. *Advanced Energy Materials*, **2018**, 8, 1701110	21.8	317
236	Effect of biphenyl biimide structure on the thermal stability, flame retardancy and pyrolysis behavior of PET. *Polymer Degradation and Stability*, **2018**, 155, 162-172	4.7	11
235	Continuous and controlled directional water transportation on a hydrophobic/superhydrophobic patterned surface. *Chemical Engineering Journal*, **2018**, 352, 722-729	14.7	38
234	Toward Super-Tough Poly(l-lactide) via Constructing Pseudo-Cross-link Network in Toughening Phase Anchored by Stereocomplex Crystallites at the Interface. *ACS Applied Materials & Interfaces*, **2018**, 10, 26594-26603	9.5	27
233	Straw-Brick-Like Carbon Fiber Cloth/Lithium Composite Electrode as an Advanced Lithium Metal Anode. *Small Methods*, **2018**, 2, 1800035	12.8	80
232	Dendritic crystallization and morphology control of random poly(p-dioxanone-co-butylene-co-succinate) copolyesters. *European Polymer Journal*, **2018**, 108, 76-84	5.2	6
231	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
230	Tailoring Schiff base cross-linking by cyano group toward excellent flame retardancy, anti-dripping and smoke suppression of PET. *Polymer*, **2018**, 153, 78-85	3.9	20
229	Hierarchical MoS /Carbon Composite Microspheres as Advanced Anodes for Lithium/Sodium-Ion Batteries. *Chemistry - A European Journal*, **2018**, 24, 11220-11226	4.8	49
228	Enhancing Ultrafast Lithium Ion Storage of Li4Ti5O12 by Tailored TiC/C Core/Shell Skeleton Plus Nitrogen Doping. *Advanced Functional Materials*, **2018**, 28, 1802756	15.6	118
227	New application for aromatic Schiff base: High efficient flame-retardant and anti-dripping action for polyesters. *Chemical Engineering Journal*, **2018**, 336, 622-632	14.7	119
226	From Fragility to Flexibility: Construction of Hydrogel Bridges toward a Flexible Multifunctional Free-Standing CaCO3 Film. *Advanced Functional Materials*, **2018**, 28, 1704956	15.6	35

225	3D TiC/C Core/Shell Nanowire Skeleton for Dendrite-Free and Long-Life Lithium Metal Anode. *Advanced Energy Materials*, **2018**, 8, 1702322	21.8	204
224	Orthogonal construction of dual dynamic covalent linkages toward an AND logic-gate acid-/salt-responsive block copolymer. *Polymer*, **2018**, 159, 32-38	3.9	
223	Simultaneously Porous Structure and Chemical Anchor: A Multifunctional Composite by One-Step Mechanochemical Strategy toward High-Performance and Safe Lithium-Sulfur Battery. *ACS Applied Materials & Interfaces*, **2018**, 10, 41359-41369	9.5	10
222	Revisiting Scientific Issues for Industrial Applications of Lithium Sulfur Batteries. *Energy and Environmental Materials*, **2018**, 1, 196-208	13	101
221	Spore Carbon from Aspergillus Oryzae for Advanced Electrochemical Energy Storage. *Advanced Materials*, **2018**, 30, e1805165	24	103
220	Desert Beetle-Inspired Superhydrophilic/Superhydrophobic Patterned Cellulose Film with Efficient Water Collection and Antibacterial Performance. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 14679-14684	8.3	47
219	Exploring Self-Healing Liquid Na-K Alloy for Dendrite-Free Electrochemical Energy Storage. *Advanced Materials*, **2018**, 30, e1804011	24	82
218	A synergistic vertical graphene skeleton and SC shell to construct high-performance TiNb2O7-based core/shell arrays. *Journal of Materials Chemistry A*, **2018**, 6, 20195-20204	13	61
217	Mechanically strong and tough hydrogels with excellent anti-fatigue, self-healing and reprocessing performance enabled by dynamic metal-coordination chemistry. *Polymer*, **2018**, 153, 637-642	3.9	20
216	Hollow metallic 1T MoS2 arrays grown on carbon cloth: a freestanding electrode for sodium ion batteries. *Journal of Materials Chemistry A*, **2018**, 6, 18318-18324	13	94
215	Strong and tough fully physically crosslinked double network hydrogels with tunable mechanics and high self-healing performance. *Chemical Engineering Journal*, **2018**, 349, 588-594	14.7	113
214	Phase Modulation of (1T-2H)-MoSe2/TiC-C Shell/Core Arrays via Nitrogen Doping for Highly Efficient Hydrogen Evolution Reaction. *Advanced Materials*, **2018**, 30, e1802223	24	183
213	Structure, morphology, and properties of LDPE/sepiolite nanofiber nanocomposite. *Polymers for Advanced Technologies*, **2017**, 28, 958-964	3.2	7
212	One-step enzymatic synthesis of poly(p-dioxanone-co-butylene-co-succinate) copolyesters with well-defined structure and enhanced degradability. *Polymer*, **2017**, 111, 107-114	3.9	6
211	All-solid-state lithium sulfur batteries based on a newly designed Li7P2.9Mn0.1S10.7I0.3 superionic conductor. *Journal of Materials Chemistry A*, **2017**, 5, 6310-6317	13	108
210	Hybrid vertical graphene/lithium titanate CNTs arrays for lithium ion storage with extraordinary performance. *Journal of Materials Chemistry A*, **2017**, 5, 8916-8921	13	66
209	Encapsulating silicon nanoparticles into mesoporous carbon forming pomegranate-structured microspheres as a high-performance anode for lithium ion batteries. *Journal of Materials Chemistry A*, **2017**, 5, 11197-11203	13	133
208	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

207	Mechanical Properties and in Vitro and in Vivo Biocompatibility of a-C/a-C:Ti Nanomultilayer Films on Ti6Al4V Alloy as Medical Implants. *ACS Applied Materials & Interfaces*, **2017**, 9, 15933-15942	9.5	26
206	Pure copper phosphate nanostructures with controlled growth: a versatile support for enzyme immobilization. *CrystEngComm*, **2017**, 19, 2996-3002	3.3	25
205	Development of Copper Phosphate Nanoflowers on Soy Protein toward a Superhydrophobic and Self-Cleaning Film. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 869-875	8.3	57
204	A Fully Biobased Encapsulant Constructed of Soy Protein and Cellulose Nanocrystals for Flexible Electromechanical Sensing. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 7063-7070	8.3	44
203	Electrostatic wrapping of doxorubicin with curdlan to construct an efficient pH-responsive drug delivery system. *Nanotechnology*, **2017**, 28, 295601	3.4	10
202	A superhydrophobic and self-cleaning photoluminescent protein film with high weatherability. *Chemical Engineering Journal*, **2017**, 326, 436-442	14.7	24
201	Directional Construction of Vertical Nitrogen-Doped 1T-2H MoSe /Graphene Shell/Core Nanoflake Arrays for Efficient Hydrogen Evolution Reaction. *Advanced Materials*, **2017**, 29, 1700748	24	328
200	Deep eutectic solvents (DESs)-derived advanced functional materials for energy and environmental applications: challenges, opportunities, and future vision. *Journal of Materials Chemistry A*, **2017**, 5, 8209-8229	13	174
199	Cellulose Nanocrystal-Templated Synthesis of Mesoporous TiO2 with Dominantly Exposed (001) Facets for Efficient Catalysis. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 3721-3725	8.3	32
198	Novel carbon channels from loofah sponge for construction of metal sulfide/carbon composites with robust electrochemical energy storage. *Journal of Materials Chemistry A*, **2017**, 5, 7578-7585	13	79
197	Tailored Li2S-P2S5 glass-ceramic electrolyte by MoS2 doping, possessing high ionic conductivity for all-solid-state lithium-sulfur batteries. *Journal of Materials Chemistry A*, **2017**, 5, 2829-2834	13	127
196	Rational construction of a metal core for smart combination with Li4Ti5O12 as integrated arrays with superior high-rate Li-ion storage performance. *Journal of Materials Chemistry A*, **2017**, 5, 1394-1399	13	61
195	Facile batch synthesis of porous vaterite microspheres for high efficient and fast removal of toxic heavy metal ions. *Journal of Environmental Chemical Engineering*, **2017**, 5, 4505-4515	6.8	19
194	A 3D conductive network with high loading Li2S@C for high performance lithium-sulfur batteries. *Journal of Materials Chemistry A*, **2017**, 5, 19358-19363	13	27
193	A Newly Designed Composite Gel Polymer Electrolyte Based on Poly(Vinylidene Fluoride-Hexafluoropropylene) (PVDF-HFP) for Enhanced Solid-State Lithium-Sulfur Batteries. *Chemistry - A European Journal*, **2017**, 23, 15203-15209	4.8	82
192	Construction of All-Solid-State Batteries based on a Sulfur-Graphene Composite and Li Si P S Cl Solid Electrolyte. *Chemistry - A European Journal*, **2017**, 23, 13950-13956	4.8	52
191	Construction of Nitrogen-Doped Carbon-Coated MoSe Microspheres with Enhanced Performance for Lithium Storage. *Chemistry - A European Journal*, **2017**, 23, 12924-12929	4.8	33
190	Use of tree rings as indicator for groundwater level drawdown caused by tunnel excavation in Zhongliang Mountains, Chongqing, Southwest China. *Environmental Earth Sciences*, **2017**, 76, 1	2.9	8

189	Performance Enhancement of a Sulfur/Carbon Cathode by Polydopamine as an Efficient Shell for High-Performance Lithium-Sulfur Batteries. *Chemistry - A European Journal*, **2017**, 23, 10610-10615	4.8	16
188	Vertical-Aligned Li S-Graphene Encapsulated within a Carbon Shell as a Free-Standing Cathode for Lithium-Sulfur Batteries. *Chemistry - A European Journal*, **2017**, 23, 11169-11174	4.8	24
187	Novel Multiblock Poly(ε-caprolactone) Copolyesters Containing D-Glucose Derivatives with Different Bicyclic Structures. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 7040-7051	8.3	7
186	Surface modification with hierarchical CuO arrays toward a flexible, durable superhydrophobic and self-cleaning material. *Chemical Engineering Journal*, **2017**, 313, 1328-1334	14.7	73
185	All-solid-state electrochromic devices based on WO3||NiO films: material developments and future applications. *Science China Chemistry*, **2017**, 60, 3-12	7.9	59
184	Synthesis and performances of poly(butylene-succinate) with enhanced viscosity and crystallization rate via introducing a small amount of diacetylene groups. *Chinese Chemical Letters*, **2017**, 28, 354-357	8.1	8
183	Single-Crystalline, Metallic TiC Nanowires for Highly Robust and Wide-Temperature Electrochemical Energy Storage. *Small*, **2017**, 13, 1602742	11	73
182	Exploring Advanced Sandwiched Arrays by Vertical Graphene and N-Doped Carbon for Enhanced Sodium Storage. *Advanced Energy Materials*, **2017**, 7, 1601804	21.8	215
181	Carbon fiber-incorporated sulfur/carbon ternary cathode for lithium–sulfur batteries with enhanced performance. *Journal of Solid State Electrochemistry*, **2017**, 21, 1203-1210	2.6	20
180	Facile and scalable synthesis of nanosized core–shell Li2S@C composite for high-performance lithium–sulfur batteries. *Journal of Materials Chemistry A*, **2016**, 4, 16653-16660	13	24
179	In situ confocal microscopic observation on inhibiting the dendrite formation of a-CNx/Li electrode. *Journal of Materials Chemistry A*, **2016**, 4, 15597-15604	13	42
178	Nitrogen-Doped Carbon Embedded MoS2 Microspheres as Advanced Anodes for Lithium- and Sodium-Ion Batteries. *Chemistry - A European Journal*, **2016**, 22, 11617-23	4.8	93
177	Monolayer titanium carbide hollow sphere arrays formed via an atomic layer deposition assisted method and their excellent high-temperature supercapacitor performance. *Journal of Materials Chemistry A*, **2016**, 4, 18717-18722	13	58
176	Thermal transition behaviors, solubility, and mechanical properties of wholly aromatic para-, meta-poly(ether-amide)s: effect on numbers of para-aryl ether linkages. *RSC Advances*, **2016**, 6, 84284-84293	3.7	2
175	Flexible Material Based on Poly(lactic acid) and Liquid Crystal with Multishape Memory Effects. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 3820-3829	8.3	15
174	A CNT cocoon on sodium manganate nanotubes forming a core/branch cathode coupled with a helical carbon nanofibre anode for enhanced sodium ion batteries. *Journal of Materials Chemistry A*, **2016**, 4, 11207-11213	13	80
173	Inherent flame retardation of semi-aromatic polyesters via binding small-molecule free radicals and charring. *Polymer Chemistry*, **2016**, 7, 1584-1592	4.9	32
172	Integrated reduced graphene oxide multilayer/Li composite anode for rechargeable lithium metal batteries. *RSC Advances*, **2016**, 6, 11657-11664	3.7	25

171	Roles of Soft Segment Length in Structure and Property of Soy Protein Isolate/Waterborne Polyurethane Blend Films. *Industrial & Engineering Chemistry Research*, **2016**, 55, 1229-1235	3.9	52
170	Renewable Sugar-Based Diols with Different Rigid Structure: Comparable Investigation on Improving Poly(butylene succinate) Performance. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 350-362	8.3	49
169	Generic Synthesis of Carbon Nanotube Branches on Metal Oxide Arrays Exhibiting Stable High-Rate and Long-Cycle Sodium-Ion Storage. *Small*, **2016**, 12, 3048-58	11	377
168	Graphene oxide modified metallic lithium electrode and its electrochemical performances in lithium–sulfur full batteries and symmetric lithium–metal coin cells. *RSC Advances*, **2016**, 6, 66161-66168	3.7	22
167	Facile fabrication of integrated three-dimensional C-MoSe2/reduced graphene oxide composite with enhanced performance for sodium storage. *Nano Research*, **2016**, 9, 1618-1629	10	129
166	Novel phosphorus-containing halogen-free ionic liquids: effect of sulfonate anion size on physical properties, biocompatibility, and flame retardancy. *RSC Advances*, **2016**, 6, 52485-52494	3.7	16
165	A facile chemoenzymatic synthesis of amphiphilic miktoarm star copolymers from a sugar core and their potential for anticancer drug delivery. *Polymer*, **2016**, 93, 159-166	3.9	13
164	Improving crystallization and processability of PBS via slight cross-linking. *RSC Advances*, **2016**, 6, 68942-68951	3.7	10
163	A peanut-like hierarchical micro/nano-Li1.2Mn0.54Ni0.18Co0.08O2 cathode material for lithium-ion batteries with enhanced electrochemical performance. *Journal of Materials Chemistry A*, **2015**, 3, 14291-14297	13	66
162	Metal hydroxide – a new stabilizer for the construction of sulfur/carbon composites as high-performance cathode materials for lithium–sulfur batteries. *Journal of Materials Chemistry A*, **2015**, 3, 17106-17112	13	73
161	Contribution of Hemispheric CaCO3 To Improving Crystalline, Physical Properties and Biocompatibility of Poly(p-dioxanone). *Industrial & Engineering Chemistry Research*, **2015**, 54, 6269-6281	3.9	7
160	PET-based copolyesters with bisphenol A or bisphenol F structural units: Their distinct differences in pyrolysis behaviours and flame-retardant performances. *Polymer Degradation and Stability*, **2015**, 120, 158-168	4.7	16
159	Block self-cross-linkable poly(ethylene terephthalate) copolyester via solid-state polymerization: Crystallization, cross-linking, and flame retardance. *Polymer*, **2015**, 70, 68-76	3.9	22
158	Synthesis and electrochemical performance of xLiV3O8·yLi3V2(PO4)3/rGO composite cathode materials for lithium ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 14731-14740	13	12
157	Effect of EDTA and NH4Cl additives on electrodeposition of Zn–Ni films from choline chloride-based ionic liquid. *Transactions of Nonferrous Metals Society of China*, **2015**, 25, 2054-2064	3.3	44
156	Nickel Hydroxide-Modified Sulfur/Carbon Composite as a High-Performance Cathode Material for Lithium Sulfur Battery. *ACS Applied Materials & Interfaces*, **2015**, 7, 16715-22	9.5	78
155	Ligand–metal-drug coordination based micelles for efficient intracellular doxorubicin delivery. *RSC Advances*, **2015**, 5, 47629-47639	3.7	10
154	Let it shine: a transparent and photoluminescent foldable nanocellulose/quantum dot paper. *ACS Applied Materials & Interfaces*, **2015**, 7, 10076-9	9.5	52

153	Coating Novozyme435 with an ionic liquid: more than just a coating for the efficient ring-opening polymerization of □valerolactone. *RSC Advances*, **2015**, 5, 68276-68282	3.7	8
152	Encapsulation of sulfur with thin-layered nickel-based hydroxides for long-cyclic lithium-sulfur cells. *Nature Communications*, **2015**, 6, 8622	17.4	225
151	A new approach to improving flame retardancy, smoke suppression and anti-dripping of PET: Via arylene-ether units rearrangement reactions at high temperature. *Polymer*, **2015**, 77, 21-31	3.9	30
150	High-energy cathode materials for Li-ion batteries: A review of recent developments. *Science China Technological Sciences*, **2015**, 58, 1809-1828	3.5	56
149	Microstructure and corrosion behavior of Cr and Cr□ alloy coatings electrodeposited from a Cr(III) deep eutectic solvent. *RSC Advances*, **2015**, 5, 71268-71277	3.7	22
148	Bamboo (Neosinocalamus affinis)-based thin film, a novel biomass material with high performances. *Carbohydrate Polymers*, **2015**, 119, 167-72	10.3	9
147	"AND" logic gate regulated pH and reduction dual-responsive prodrug nanoparticles for efficient intracellular anticancer drug delivery. *Chemical Communications*, **2015**, 51, 93-6	5.8	31
146	Phosphorus-containing copolyesters: The effect of ionic group and its analogous phosphorus heterocycles on their flame-retardant and anti-dripping performances. *Polymer*, **2015**, 60, 50-61	3.9	59
145	PBT/PC Blends Compatibilized and Toughened via Copolymers in Situ Formed by MgO-Catalyzed Transesterification. *Industrial & Engineering Chemistry Research*, **2015**, 54, 1282-1291	3.9	23
144	Fast synthesis and optical property of SnO nanoparticles from choline chloride-based ionic liquid. *Journal of Nanoparticle Research*, **2014**, 16, 1	2.3	13
143	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
142	The direct growth of a WO3 nanosheet array on a transparent conducting substrate for highly efficient electrochromic and electrocatalytic applications. *CrystEngComm*, **2014**, 16, 6866-6872	3.3	52
141	Self-assembly of hierarchical Fe3O4 microsphere/graphene nanosheet composite: towards a promising high-performance anode for Li-ion batteries. *RSC Advances*, **2014**, 4, 322-330	3.7	54
140	A phosphorus-containing PET ionomer: from ionic aggregates to flame retardance and restricted melt-dripping. *Polymer Chemistry*, **2014**, 5, 1982-1991	4.9	43
139	Hierarchical SnO2@NiO core/shell nanoflake arrays as energy-saving electrochromic materials. *Journal of Materials Chemistry C*, **2014**, 2, 10409-10417	7.1	39
138	Dandelion-like CaCO3 microspheres: ionic liquid-assisted biomimetic synthesis and in situ fabrication of poly(□caprolactone)/CaCO3 composites with high performance. *RSC Advances*, **2014**, 4, 53380-53386	3.7	7
137	A novel phosphorus-containing poly(1,4-cyclohexylenedimethylene terephthalate) copolyester: Synthesis, thermal stability, flammability and pyrolysis behavior. *Polymer Degradation and Stability*, **2014**, 108, 12-22	4.7	12
136	Metal oxide/hydroxide-based materials for supercapacitors. *RSC Advances*, **2014**, 4, 41910-41921	3.7	235

135	Self-assembly of Si/honeycomb reduced graphene oxide composite film as a binder-free and flexible anode for Li-ion batteries. *Journal of Materials Chemistry A*, **2014**, 2, 5834-5840	13	98
134	Influence of Valence and Structure of Phosphorus-Containing Melamine Salts on the Decomposition and Fire Behaviors of Flexible Polyurethane Foams. *Industrial & Engineering Chemistry Research*, **2014**, 53, 8773-8783	3.9	40
133	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
132	Co-doped NiO nanoflake array films with enhanced electrochromic properties. *Journal of Materials Chemistry C*, **2014**, 2, 7013-7021	7.1	110
131	In-situ synthesis, characterization and antimicrobial activity of viscose fiber loaded with silver nanoparticles. *Cellulose*, **2014**, 21, 3097-3105	5.5	13
130	Fennel-like nanoaggregates based on polysaccharide derivatives and their application in drug delivery. *Colloids and Surfaces B: Biointerfaces*, **2014**, 113, 501-4	6	9
129	A prodrug strategy based on chitosan for efficient intracellular anticancer drug delivery. *Nanotechnology*, **2014**, 25, 255101	3.4	25
128	Soy protein isolate films with improved property via a facile surface coating. *Industrial Crops and Products*, **2014**, 54, 102-108	5.9	26
127	Synthesis of reduced graphene oxide by an ionothermal method and electrochemical performance. *RSC Advances*, **2013**, 3, 11807	3.7	24
126	Thermal Transition Behavior, Thermal Stability, and Flame Retardancy of Low-Melting-Temperature Copolyester: Comonomer Effect. *Industrial & Engineering Chemistry Research*, **2013**, 52, 4539-4546	3.9	8
125	Phosphorus-Containing Poly(ethylene terephthalate): Solid-State Polymerization and Its Sequential Distribution. *Industrial & Engineering Chemistry Research*, **2013**, 52, 5326-5333	3.9	20
124	Aluminum Hydroxymethylphosphinate and Melamine Pyrophosphate: Synergistic Flame Retardance and Smoke Suppression for Glass Fiber Reinforced Polyamide 6. *Industrial & Engineering Chemistry Research*, **2013**, 52, 15613-15620	3.9	9
123	Thermodynamics and kinetics of Novozym 435 catalyzed ring-opening polymerization of 1,4-dioxan-2-one. *Journal of Molecular Catalysis B: Enzymatic*, **2013**, 96, 40-45		6
122	Fabrication of graphene/polylactide nanocomposites with improved properties. *Composites Science and Technology*, **2013**, 88, 33-38	8.6	48
121	The high-temperature self-crosslinking contribution of azobenzene groups to the flame retardance and anti-dripping of copolyesters. *Journal of Materials Chemistry A*, **2013**, 1, 9264	13	47
120	Facile synthesis of Ni-coated Ni2P for supercapacitor applications. *CrystEngComm*, **2013**, 15, 7071	3.3	95
119	Hierarchical structure Ti-doped WO3 film with improved electrochromism in visible-infrared region. *RSC Advances*, **2013**, 3, 6896	3.7	83
118	Influence of oxidized starch on the properties of thermoplastic starch. *Carbohydrate Polymers*, **2013** , 96, 358-64	10.3	37

117	Synthesis of functionalized zirconium phosphate modified with intumescent flame retardant and its application in poly(lactic acid). *Polymer Degradation and Stability*, **2013**, 98, 1731-1737	4.7	50
116	One-step fabrication of nanostructured NiO films from deep eutectic solvent with enhanced electrochromic performance. *Journal of Materials Chemistry A*, **2013**, 1, 4286	13	64
115	Biodegradation behavior of P(3HB,4HB)/PLA blends in real soil environments. *Polymer Testing*, **2013**, 32, 60-70	4.5	78
114	Crystallization Kinetics and Spherulitic Morphologies of Biodegradable Poly(butylene succinate-co-diethylene glycol succinate) Copolymers. *Industrial & Engineering Chemistry Research*, **2013**, 52, 1591-1599	3.9	18
113	A pH-responsive chitosan-b-poly(p-dioxanone) nanocarrier: formation and efficient antitumor drug delivery. *Nanotechnology*, **2013**, 24, 145101	3.4	33
112	Ionic liquid coated lipase: Green synthesis of high molecular weight poly(1,4-dioxan-2-one). *Journal of Molecular Catalysis B: Enzymatic*, **2012**, 77, 46-52		23
111	Miscibility, crystallization and mechanical properties of biodegradable blends of poly(l-lactic acid) and poly(butylene succinate-b-ethylene succinate) multiblock copolymer. *Thermochimica Acta*, **2012** , 539, 16-22	2.9	14
110	Effect of TiO2 nanoparticles on the long-term hydrolytic degradation behavior of PLA. *Polymer Degradation and Stability*, **2012**, 97, 721-728	4.7	95
109	A Biobased Blend of Cellulose Diacetate with Starch. *Journal of Polymers and the Environment*, **2012** , 20, 1103-1111	4.5	4
108	Co3O4 core shell nanowire array as an advanced anode material for lithium ion batteries. *Journal of Materials Chemistry*, **2012**, 22, 15056		187
107	Large-scale synthesis of porous Ni2P nanosheets for lithium secondary batteries. *CrystEngComm*, **2012**, 14, 8633	3.3	44
106	Synthesis of dinickel phosphide (Ni2P) for fast lithium-ion transportation: a new class of nanowires with exceptionally improved electrochemical performance as a negative electrode. *RSC Advances*, **2012**, 2, 3430	3.7	45
105	Three-dimensional porous nano-Ni/Fe3O4 composite film: enhanced electrochemical performance for lithium-ion batteries. *Journal of Materials Chemistry*, **2012**, 22, 18639		54
104	Self-assembly, drug-delivery behavior, and cytotoxicity evaluation of amphiphilic chitosan-graft-poly(1,4-dioxan-2-one) copolymers. *Journal of Polymer Research*, **2012**, 19, 1	2.7	12
103	Development of soy protein isolate/waterborne polyurethane blend films with improved properties. *Colloids and Surfaces B: Biointerfaces*, **2012**, 100, 16-21	6	51
102	Dynamic origin and thermally induced evolution of new self-assembled aggregates from an amphiphilic comb-like graft copolymer: a multiscale and multimorphological procedure. *Chemistry - A European Journal*, **2012**, 18, 12237-41	4.8	21
101	A novel polymeric intumescent flame retardant: Synthesis, thermal degradation mechanism and application in ABS copolymer. *Polymer Degradation and Stability*, **2012**, 97, 1772-1778	4.7	53
100	Freestanding Co3O4 nanowire array for high performance supercapacitors. *RSC Advances*, **2012**, 2, 1835	3.7	366

99	Halogen-Free Flame-Retardant Flexible Polyurethane Foam with a Novel Nitrogen−Phosphorus Flame Retardant. *Industrial & Engineering Chemistry Research*, **2012**, 51, 9769-9776	3.9	155
98	Thermal, Crystallization Properties, and Micellization Behavior of HEC-g-PPDO Copolymer: Microstructure Parameters Effect. *Industrial & Engineering Chemistry Research*, **2012**, 51, 14037-14046	3.9	10
97	Ionothermal synthesis and lithium storage performance of core/shell structured amorphous@crystalline Ni$_2$P nanoparticles. *CrystEngComm*, **2012**, 14, 7942	3.3	84
96	Synthesis and Properties of Biodegradable Poly(butylene succinate-co-diethylene glycol succinate) Copolymers. *Industrial & Engineering Chemistry Research*, **2012**, 51, 12258-12265	3.9	44
95	Rapid synthesis of poly(p-dioxanone)/montmorillonite nanocomposites under microwave irradiation. *Journal of Applied Polymer Science*, **2012**, 125, 3463-3468	2.9	2
94	Determination of Carbon Dioxide by the Enhancement of Luminol-Potassium Permanganate Chemiluminescence and Its Application for the Biodegradation Analysis of Cellulose Acetate-g-poly (p-dioxanone) Copolymer. *Analytical Letters*, **2012**, 45, 75-84	2.2	2
93	Preparation and properties of oxidized starch with high degree of oxidation. *Carbohydrate Polymers* , **2012**, 87, 2554-2562	10.3	125
92	Self-supported hydrothermal synthesized hollow Co3O4 nanowire arrays with high supercapacitor capacitance. *Journal of Materials Chemistry*, **2011**, 21, 9319		614
91	A Novel Multiblock Poly(ester urethane) Based on Poly(butylene succinate) and Poly(ethylene succinate-co-ethylene terephthalate). *Industrial & Engineering Chemistry Research*, **2011**, 50, 2065-2072	3.9	26
90	Hierarchically porous NiO film grown by chemical bath deposition via a colloidal crystal template as an electrochemical pseudocapacitor material. *Journal of Materials Chemistry*, **2011**, 21, 671-679		259
89	Biodegradable soy protein isolate-based materials: a review. *Biomacromolecules*, **2011**, 12, 3369-80	6.9	244
88	Biocompatible hydrogels based on chitosan and poly(p-dioxanone). *Journal of Controlled Release*, **2011**, 152 Suppl 1, e94-5	11.7	1
87	Effect of a phosphorus-containing flame retardant on the thermal properties and ease of ignition of poly(lactic acid). *Polymer Degradation and Stability*, **2011**, 96, 1557-1561	4.7	83
86	Inherent flame retardation of bio-based poly(lactic acid) by incorporating phosphorus linked pendent group into the backbone. *Polymer Degradation and Stability*, **2011**, 96, 1669-1675	4.7	41
85	Poly (N-isopropylacrylamide)/poly (ethylene oxide) blend nanofibrous scaffolds: thermo-responsive carrier for controlled drug release. *Colloids and Surfaces B: Biointerfaces*, **2011**, 88, 749-54	6	56
84	Hydrothermally synthesized WO3 nanowire arrays with highly improved electrochromic performance. *Journal of Materials Chemistry*, **2011**, 21, 5492		231
83	Multicolor electrochromic polyaniline/WO3 hybrid thin films: One-pot molecular assembling synthesis. *Journal of Materials Chemistry*, **2011**, 21, 17316		121
82	Microstructure and infrared reflectance modulation properties in DC-sputtered tungsten oxide films. *Journal of Solid State Electrochemistry*, **2011**, 15, 2213-2219	2.6	25

81	Synthesis of organo-modified □zirconium phosphate and its effect on the flame retardancy of IFR poly(lactic acid) systems. *Polymer Degradation and Stability*, **2011**, 96, 771-777	4.7	71
80	A method for simultaneously improving the flame retardancy and toughness of PLA. *Polymers for Advanced Technologies*, **2011**, 22, 2295-2301	3.2	98
79	Durable flame retardant finishing of PET/cotton blends using a Novel PVA-based phosphorus-nitrogen polymer. *Journal of Applied Polymer Science*, **2011**, 122, 342-353	2.9	18
78	In situ growth and electrochemical characterization versuslithium of a core/shell-structured Ni2P@C nanocomposite synthesized by a facile organic-phase strategy. *Journal of Materials Chemistry*, **2011**, 21, 17988		58
77	Cellulose diacetate-g-poly(p-dioxanone) co-polymer: synthesis, properties and microsphere preparation. *Journal of Biomaterials Science, Polymer Edition*, **2011**, 22, 981-99	3.5	9
76	Growth of and methanol electro-oxidation by gold nanowires with high density stacking faults. *Journal of Materials Chemistry*, **2011**, 21, 4843		32
75	Preparation and Rheological Behaviors of Thermoplastic Poly(vinyl alcohol) Modified by Lactic Acid. *Industrial & Engineering Chemistry Research*, **2011**, 50, 9123-9130	3.9	18
74	A novel phosphorus-containing poly(lactic acid) toward its flame retardation. *Polymer*, **2011**, 52, 233-238	3.9	108
73	Biodegradation behavior of PHAs with different chemical structures under controlled composting conditions. *Polymer Testing*, **2011**, 30, 372-380	4.5	111
72	BIODEGRADATION BEHAVIORS OF POLY(p-DIOXANONE)/ORGANO-MONTMORILLONITE NANOCOMPOSITES. *Acta Polymerica Sinica*, **2011**, 011, 633-638		1
71	RECENT PROGRESS IN STARCH-BASED POLYMERIC MATERIALS. *Acta Polymerica Sinica*, **2011**, 011, 24-37		8
70	Synthesis of poly(p-dioxanone) catalyzed by Zn L-lactate under microwave irradiation and its application in ibuprofen delivery. *Journal of Biomaterials Science, Polymer Edition*, **2010**, 21, 927-36	3.5	11
69	Effect of an Ultrahigh Rubber ABS Impact Modifier Resin on Mechanical Properties of Intumescent Flame-Retardant ABS Composites. *Journal of Macromolecular Science - Physics*, **2010**, 49, 542-551	1.4	5
68	Dissolution Behavior of Chitin in Ionic Liquids. *Journal of Macromolecular Science - Physics*, **2010**, 49, 528-541	1.4	109
67	Preparation and properties of a novel biodegradable ethyl cellulose grafting copolymer with poly(p-dioxanone) side-chains. *Carbohydrate Polymers*, **2010**, 80, 350-359	10.3	54
66	Effect of rapid quenching on the microstructure and electrochemical characteristics of La0.6Ce0.4Ni3.6Co0.65Mn0.4Al0.2Ti0.05(FeB)0.1 hydrogen storage alloy. *Rare Metals*, **2010**, 29, 593-596	5.5	1
65	Preparation of a new dialdehyde starch derivative and investigation of its thermoplastic properties. *Journal of Polymer Research*, **2010**, 17, 439-446	2.7	36
64	A novel organophosphorus flame retardant: Synthesis and durable finishing of poly(ethylene terephthalate)/cotton blends. *Journal of Applied Polymer Science*, **2010**, 117, n/a-n/a	2.9	2

63	Biodegradation behavior of PHBV films in a pilot-scale composting condition. *Polymer Testing*, **2010**, 29, 579-587	4.5	67
62	A facile approach to preparation of long-chain-branched poly(p-dioxanone). *European Polymer Journal*, **2010**, 46, 24-33	5.2	8
61	A novel aromatic–aliphatic copolyester consisting of poly(1,4-dioxan-2-one) and poly(ethylene-co-1,6-hexene terephthalate): Preparation, thermal, and mechanical properties. *Journal of Polymer Science Part A*, **2010**, 48, 2828-2837	2.5	12
60	Relationship between Microstructure and Mechanical Properties of Ethylene-Octene Copolymer Reinforced and Toughened PP. *Journal of Macromolecular Science - Physics*, **2009**, 48, 351-364	1.4	9
59	Nonisothermal Crystallization Behaviors of Flame-Retardant Copolyester/Montmorillonite Nanocomposites. *Journal of Macromolecular Science - Physics*, **2009**, 48, 927-940	1.4	5
58	Microwave-Assisted Single-Step Synthesis of Poly(L-lactic acid)-poly(ethylene glycol) Copolymers. *Journal of Macromolecular Science - Pure and Applied Chemistry*, **2009**, 46, 631-635	2.2	4
57	Preparation and characterization of poly(lactic acid)-grafted TiO2 nanoparticles with improved dispersions. *Applied Surface Science*, **2009**, 255, 6795-6801	6.7	63
56	Effect of carbonyl content on the properties of thermoplastic oxidized starch. *Carbohydrate Polymers*, **2009**, 78, 157-161	10.3	37
55	High Carbonyl Content Oxidized Starch Prepared by Hydrogen Peroxide and Its Thermoplastic Application. *Starch/Staerke*, **2009**, 61, 646-655	2.3	103
54	An efficient approach to synthesize polysaccharides-graft-poly(p-dioxanone) copolymers as potential drug carriers. *Journal of Polymer Science Part A*, **2009**, 47, 5344-5353	2.5	12
53	Synthesis of high-molecular-weight aliphatic–aromatic copolyesters from poly(ethylene-co-1,6-hexene terephthalate) and poly(L-lactic acid) by chain extension. *Journal of Polymer Science Part A*, **2009**, 47, 5898-5907	2.5	23
52	A water-soluble PPDO/PEG alternating multiblock copolymer: Synthesis, characterization, and its gel–sol transition behavior. *European Polymer Journal*, **2009**, 45, 1190-1197	5.2	16
51	A novel biodegradable multiblock poly(ester urethane) containing poly(l-lactic acid) and poly(butylene succinate) blocks. *Polymer*, **2009**, 50, 1178-1186	3.9	148
50	Green composite films prepared from cellulose, starch and lignin in room-temperature ionic liquid. *Bioresource Technology*, **2009**, 100, 2569-74	11	199
49	Green synthesis of a novel biodegradable copolymer base on cellulose and poly(p-dioxanone) in ionic liquid. *Carbohydrate Polymers*, **2009**, 76, 139-144	10.3	40
48	Chitosan-graft poly(p-dioxanone) copolymers: preparation, characterization, and properties. *Carbohydrate Research*, **2009**, 344, 801-7	2.9	34
47	Preparation and properties of nanocomposites based on poly(lactic acid) and functionalized TiO2. *Acta Materialia*, **2009**, 57, 3182-3191	8.4	115
46	Synthesis and Properties of Poly(Ester Urethane)s Consisting of Poly(l-Lactic Acid) and Poly(Ethylene Succinate) Segments. *Industrial & Engineering Chemistry Research*, **2009**, 48, 1706-1711	3.9	54

45	Rheology, Crystallization, and Biodegradability of Blends Based on Soy Protein and Chemically Modified Poly(butylene succinate). *Industrial & Engineering Chemistry Research*, **2009**, 48, 4817-4825	3.9	30
44	Synthesis and Properties of Thermoplastic Poly(vinyl Alcohol)-Graft-Lactic Acid Copolymers. *Industrial & Engineering Chemistry Research*, **2009**, 48, 788-793	3.9	41
43	Nonisothermal Crystallization Kinetics of Poly(?-Caprolactone)/Montmorillonite Nanocomposites. *Journal of Macromolecular Science - Physics*, **2009**, 48, 710-722	1.4	20
42	Cellulose/Soy Protein Isolate Blend Films Prepared via Room-Temperature Ionic Liquid. *Industrial & Engineering Chemistry Research*, **2009**, 48, 7132-7136	3.9	71
41	Thermal Degradation and Combustion Behaviors of Flame-Retardant Polypropylene/Thermoplastic Polyurethane Blends. *Journal of Macromolecular Science - Physics*, **2009**, 48, 889-909	1.4	13
40	Structure and properties of soy protein/poly(butylene succinate) blends with improved compatibility. *Biomacromolecules*, **2008**, 9, 3157-64	6.9	83
39	Effect of Modified Intumescent Flame Retardant via Surfactant/Polyacrylate Latex on Properties of Intumescent Flame Retardant ABS Composites. *Journal of Macromolecular Science - Physics*, **2008**, 47, 1087-1095	1.4	9
38	Microwave-assisted ring-opening polymerization of p-dioxanone. *Journal of Polymer Science Part A*, **2008**, 46, 3207-3213	2.5	13
37	Biodegradation behaviors of thermoplastic starch (TPS) and thermoplastic dialdehyde starch (TPDAS) under controlled composting conditions. *Polymer Testing*, **2008**, 27, 924-930	4.5	58
36	Lanthania promoted MgO: Simultaneous highly efficient catalytic degradation and dehydrochlorination of polypropylene/polyvinyl chloride. *Applied Catalysis B: Environmental*, **2008**, 80, 141-146	21.8	23
35	Preparation, characterization, and in vitro drug release behavior of biodegradable chitosan-graft-poly(1, 4-dioxan-2-one) copolymer. *Carbohydrate Polymers*, **2008**, 74, 862-867	10.3	38
34	A new approach to prepare high molecular weight poly(p-dioxanone) by chain-extending from dihydroxyl terminated propolymers. *European Polymer Journal*, **2008**, 44, 465-474	5.2	20
33	Hydrogen storage properties of ball-milled Mg-based composite with PdCl2 additive. *Journal of Zhejiang University: Science A*, **2007**, 8, 1510-1513	2.1	3
32	In vitro degradation of biodegradable blending materials based on poly(p-dioxanone) and poly(vinyl alcohol)-graft-poly(p-dioxanone) with high molecular weights. *Journal of Biomedical Materials Research - Part A*, **2007**, 80, 453-65	5.4	23
31	Modified Corn Starches with Improved Comprehensive Properties for Preparing Thermoplastics. *Starch/Staerke*, **2007**, 59, 258-268	2.3	79
30	Synthesis of block copolymers of poly(p-dioxanone) block poly(tetrahydrofuran). *Polymer Bulletin*, **2006**, 57, 151-156	2.4	6
29	A rapid synthesis of poly (p-dioxanone) by ring-opening polymerization under microwave irradiation. *Polymer Bulletin*, **2006**, 57, 873-880	2.4	19
28	Effects of molecular weights of bioabsorbable poly(p-dioxanone) on its crystallization behaviors. *Journal of Applied Polymer Science*, **2006**, 100, 2331-2335	2.9	16

27	ABA triblock copolymers from poly(p-dioxanone) and poly(ethylene glycol). *Journal of Applied Polymer Science*, **2006**, 102, 1092-1097	2.9	14
26	Copolymerization of poly(vinyl alcohol)-graft-poly(1,4-dioxan-2-one) with designed molecular structure by a solid-state polymerization method. *Journal of Polymer Science Part A*, **2006**, 44, 3083-3091	2.5	14
25	Thermal properties and non-isothermal crystallization behavior of biodegradable poly(p-dioxanone)/poly(vinyl alcohol) blends. *Polymer International*, **2006**, 55, 383-390	3.3	25
24	Synthesis, characterization, and thermal properties of a novel pentaerythritol-initiated star-shaped poly(p-dioxanone). *Journal of Polymer Science Part A*, **2006**, 44, 1245-1251	2.5	16
23	A study on grafting poly(1,4-dioxan-2-one) onto starch via 2,4-tolylene diisocyanate. *Carbohydrate Polymers*, **2006**, 65, 28-34	10.3	26
22	A novel biodegradable poly(p-dioxanone)-grafted poly(vinyl alcohol) copolymer with a controllable in vitro degradation. *Polymer*, **2006**, 47, 32-36	3.9	37
21	Hydrogenation properties of mechanically milled Mg2Ni0.8Cr0.2-CoO/Al2O3 composites. *Journal of Zhejiang University Science B*, **2005**, 6, 208-12		
20	Chain-extension and thermal behaviors of poly(p-dioxanone) with toluene-2,4-diisocyanate. *Reactive and Functional Polymers*, **2005**, 65, 309-315	4.6	10
19	A novel biodegradable polyester from chain-extension of poly(p-dioxanone) with poly(butylene succinate). *Polymer Degradation and Stability*, **2005**, 88, 294-299	4.7	21
18	Effect of PEG on the crystallization of PPDO/PEG blends. *European Polymer Journal*, **2005**, 41, 1243-1250	5.2	53
17	AlEt3-H2O-H3PO4 catalyzed polymerizations of 1, 4-dioxan-2-one. *Polymer Bulletin*, **2005**, 54, 187-193	2.4	7
16	Preparation and characterization of a novel biodegradable poly(p-dioxanone)/montmorillonite nanocomposite. *Journal of Polymer Science Part A*, **2005**, 43, 2298-2303	2.5	29
15	Effects of molecular weights of poly(p-dioxanone) on its thermal, rheological and mechanical properties and in vitro degradability. *Materials Chemistry and Physics*, **2004**, 87, 218-221	4.4	26
14	Agricultural Application and Environmental Degradation of Photo-Biodegradable Polyethylene Mulching Films. *Journal of Polymers and the Environment*, **2004**, 12, 7-10	4.5	23
13	Crystallization and morphology of starch-g-poly(1,4-dioxan-2-one) copolymers. *Polymer*, **2004**, 45, 7961-7968	3.9	17
12	Synthesis and nuclear magnetic resonance analysis of starch-g-poly(1,4-dioxan-2-one) copolymers. *Journal of Polymer Science Part A*, **2004**, 42, 3417-3422	2.5	16
11	Crystallization and morphology of a novel biodegradable polymer system: poly(1,4-dioxan-2-one)/starch blends. *Acta Materialia*, **2004**, 52, 4899-4905	8.4	41
10	A new biodegradable copolyester poly(butylene succinate-co-ethylene succinate-co-ethylene terephthalate). *Acta Materialia*, **2004**, 52, 5871-5878	8.4	55

9	Properties of Starch Blends with Biodegradable Polymers. *Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics*, **2003**, 43, 385-409		133
8	Kinetics of thermal degradation and thermal oxidative degradation of poly(p-dioxanone). *European Polymer Journal*, **2003**, 39, 1567-1574	5.2	73
7	Kinetics of thermal degradation of flame retardant copolyesters containing phosphorus linked pendent groups. *Polymer Degradation and Stability*, **2003**, 80, 135-140	4.7	78
6	Thermogravimetric analysis of the decomposition of poly(1,4-dioxan-2-one)/starch blends. *Polymer Degradation and Stability*, **2003**, 81, 415-421	4.7	25
5	Kinetics of thermal oxidative degradation of phosphorus-containing flame retardant copolyesters. *Polymer Degradation and Stability*, **2002**, 76, 401-409	4.7	65
4	POLY(p-DIOXANONE) AND ITS COPOLYMERS. *Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics*, **2002**, 42, 373-398		160
3	Physical and chemical effects of diethyl N,N?-diethanolaminomethylphosphate on flame retardancy of rigid polyurethane foam. *Journal of Applied Polymer Science*, **2001**, 82, 276-282	2.9	33
2	High fire-safety phosphorus-containing polyethylene terephthalate with well-balanced comprehensive performances by reactive blending with liquid crystalline copolyester. *High Performance Polymers*,095400832110288	1.6	1
1	LiBr□iF-Rich Solid□lectrolyte Interface Layer on Lithiophilic 3D Framework for Enhanced Lithium Metal Anode. *Small Structures*,2200010	8.7	4