

Bo-wen Cheng

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359
papers

7,405
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44
h-index

64
g-index

382
ext. papers

9,324
ext. citations

6
avg, IF

6.57
L-index

#	Paper	IF	Citations
359	A review of recent developments in rechargeable lithium-sulfur batteries. <i>Nanoscale</i> , 2016 , 8, 16541-16588	8.9	269
358	A review on separators for lithium-sulfur battery: Progress and prospects. <i>Journal of Power Sources</i> , 2016 , 331, 132-155	8.9	188
357	A review on anode for lithium-sulfur batteries: Progress and prospects. <i>Chemical Engineering Journal</i> , 2018 , 347, 343-365	14.7	140
356	Development of smart poly(vinylidene fluoride)-graft-poly(acrylic acid) tree-like nanofiber membrane for pH-responsive oil/water separation. <i>Journal of Membrane Science</i> , 2017 , 534, 1-8	9.6	117
355	Ionic liquid [EMIM]OAc under ultrasonic irradiation towards the first synthesis of trisubstituted imidazoles. <i>Ultrasonics Sonochemistry</i> , 2010 , 17, 749-51	8.9	108
354	A design of gradient interphase reinforced by silanized graphene oxide and its effect on carbon fiber/epoxy interface. <i>Materials Chemistry and Physics</i> , 2014 , 145, 186-196	4.4	107
353	Polyamide thin film composite nanofiltration membrane modified with acyl chlorided graphene oxide. <i>Journal of Membrane Science</i> , 2017 , 535, 208-220	9.6	105
352	Solution blowing of chitosan/PVA hydrogel nanofiber mats. <i>Carbohydrate Polymers</i> , 2014 , 101, 1116-21	10.3	105
351	Electrospun chitosan/gelatin nanofibers containing silver nanoparticles. <i>Carbohydrate Polymers</i> , 2010 , 82, 524-527	10.3	105
350	Modification of Nafion membrane with biofunctional SiO ₂ nanofiber for proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2017 , 340, 201-209	8.9	99
349	Solution blowing of submicron-scale cellulose fibers. <i>Carbohydrate Polymers</i> , 2012 , 90, 982-7	10.3	95
348	Performance enhancements in poly(vinylidene fluoride)-based piezoelectric nanogenerators for efficient energy harvesting. <i>Nano Energy</i> , 2019 , 56, 662-692	17.1	95
347	A Review: Electrospun Nanofiber Materials for Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2019 , 29, 1905467	15.6	83
346	Solution blowing of ZnO nanoflake-encapsulated carbon nanofibers as electrodes for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 13779	13	72
345	Ultrasound-promoted synthesis of oximes catalyzed by a basic ionic liquid [bmim]OH. <i>Ultrasonics Sonochemistry</i> , 2009 , 16, 301-3	8.9	71
344	Solution blown nanofibrous membrane for microfiltration. <i>Journal of Membrane Science</i> , 2013 , 429, 66-70	9.6	68
343	Durable flame retardant cellulosic fibers modified with novel, facile and efficient phytic acid-based finishing agent. <i>Cellulose</i> , 2018 , 25, 799-811	5.5	66

342	Quantitative analysis of cellulose acetate with a high degree of substitution by FTIR and its application. <i>Analytical Methods</i> , 2017 , 9, 6194-6201	3.2	64
341	Graphene modified sodium vanadium fluorophosphate as a high voltage cathode material for sodium ion batteries. <i>Electrochimica Acta</i> , 2015 , 160, 330-336	6.7	62
340	Sulfur-embedded porous carbon nanofiber composites for high stability lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2018 , 333, 185-190	14.7	61
339	Role of a gradient interface layer in interfacial enhancement of carbon fiber/epoxy hierarchical composites. <i>Journal of Materials Science</i> , 2015 , 50, 112-121	4.3	61
338	Preparation and performance of a novel thermoplastics polyurethane solid-solid phase change materials for energy storage. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 102, 36-43	6.4	60
337	Fabrication of polyvinylidene fluoride tree-like nanofiber via one-step electrospinning. <i>Materials and Design</i> , 2016 , 92, 95-101	8.1	59
336	Functional mechanism analysis and customized structure design of interlayers for high performance Li-S battery. <i>Energy Storage Materials</i> , 2019 , 23, 314-349	19.4	58
335	Super-hydrophobic self-cleaning bead-like SiO ₂ @PTFE nanofiber membranes for waterproof-breathable applications. <i>Applied Surface Science</i> , 2018 , 442, 54-64	6.7	58
334	Bio-inspired robust superhydrophobic-superoleophilic polyphenylene sulfide membrane for efficient oil/water separation under highly acidic or alkaline conditions. <i>Journal of Hazardous Materials</i> , 2019 , 373, 11-22	12.8	56
333	Flame retardant cellulosic fabrics via layer-by-layer self-assembly double coating with egg white protein and phytic acid. <i>Journal of Cleaner Production</i> , 2020 , 243, 118641	10.3	56
332	Designing waterproof breathable material with moisture unidirectional transport characteristics based on a TPU/TBAC tree-like and TPU nanofiber double-layer membrane fabricated by electrospinning. <i>RSC Advances</i> , 2017 , 7, 32155-32163	3.7	55
331	Effect of OctaphenylPolyhedral oligomeric silsesquioxane on the electrospun Poly-m-phenylene isophthalamid separators for lithium-ion batteries with high safety and excellent electrochemical performance. <i>Chemical Engineering Journal</i> , 2019 , 356, 11-21	14.7	55
330	Solution blowing of continuous carbon nanofiber yarn and its electrochemical performance for supercapacitors. <i>Chemical Engineering Journal</i> , 2014 , 237, 308-311	14.7	54
329	Preparation and characterization of a novel polymeric based solid-solid phase change heat storage material. <i>Energy Conversion and Management</i> , 2009 , 50, 1522-1528	10.6	54
328	The recent research status quo and the prospect of electrolytes for lithium sulfur batteries. <i>Chemical Engineering Journal</i> , 2019 , 369, 874-897	14.7	53
327	An efficient ultrasound-promoted method for the one-pot synthesis of 7,10,11,12-tetrahydrobenzo[c]acridin-8(9H)-one derivatives. <i>Ultrasonics Sonochemistry</i> , 2010 , 17, 495-9	8.9	52
326	Rational design of N-doped carbon nanobox-supported Fe/Fe ₂ N/Fe ₃ C nanoparticles as efficient oxygen reduction catalysts for Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 11340-11347	13	50
325	A simple but efficient zwitterionization method towards cellulose membrane with superior antifouling property and biocompatibility. <i>Journal of Membrane Science</i> , 2015 , 492, 547-558	9.6	48

324	Enhanced removal of azo dye using modified PAN nanofibrous membrane Fe complexes with adsorption/visible-driven photocatalysis bifunctional roles. <i>Applied Surface Science</i> , 2017 , 404, 206-215	6.7	47
323	Co-based and Cu-based MOFs modified separators to strengthen the kinetics of redox reaction and inhibit lithium-dendrite for long-life lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2020 , 388, 124241	14.7	47
322	Selective oxidation of 5-hydroxymethylfurfural with H ₂ O ₂ catalyzed by a molybdenum complex. <i>Green Chemistry</i> , 2016 , 18, 2122-2128	10	47
321	Synthesis and thermal energy storage properties of the polyurethane solid-solid phase change materials with a novel tetrahydroxy compound. <i>European Polymer Journal</i> , 2012 , 48, 1295-1303	5.2	47
320	Ionic liquid under ultrasonic irradiation towards a facile synthesis of pyrazolone derivatives. <i>Ultrasonics Sonochemistry</i> , 2011 , 18, 68-72	8.9	47
319	Direct catalytic conversion of glucose and cellulose. <i>Green Chemistry</i> , 2018 , 20, 863-872	10	45
318	Solution blowing nylon 6 nanofiber mats for air filtration. <i>Fibers and Polymers</i> , 2013 , 14, 1485-1490	2	45
317	A F-doped tree-like nanofiber structural poly-m-phenyleneisophthalamide separator for high-performance lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2017 , 362, 243-249	8.9	45
316	Organically modified MCM-type material preparation and its usage in controlled amoxicillin delivery. <i>Journal of Colloid and Interface Science</i> , 2010 , 342, 607-13	9.3	45
315	Polyvinyl Alcohol-derived carbon nanofibers/carbon nanotubes/sulfur electrode with honeycomb-like hierarchical porous structure for the stable-capacity lithium/sulfur batteries. <i>Journal of Power Sources</i> , 2017 , 346, 1-12	8.9	44
314	Higher UV-shielding ability and lower photocatalytic activity of TiO ₂ @SiO ₂ /APTES and its excellent performance in enhancing the photostability of poly(p-phenylene sulfide). <i>RSC Advances</i> , 2017 , 7, 21758-21767	3.7	43
313	A thermostability gel polymer electrolyte with electrospun nanofiber separator of organic F-doped poly-m-phenyleneisophthalamide for lithium-ion battery. <i>Electrochimica Acta</i> , 2016 , 216, 276-286	6.7	43
312	One-step melt-blowing of multi-scale micro/nano fabric membrane for advanced air-filtration. <i>Polymer</i> , 2019 , 165, 174-179	3.9	43
311	Preparation and characterization of tree-like cellulose nanofiber membranes via the electrospinning method. <i>Carbohydrate Polymers</i> , 2018 , 183, 62-69	10.3	42
310	Preparation and characterization of PVA-based carbon nanofibers with honeycomb-like porous structure via electro-blown spinning method. <i>Microporous and Mesoporous Materials</i> , 2017 , 239, 416-425	5.3	41
309	One-step bimodel grafting via a multicomponent reaction toward antifouling and antibacterial TFC RO membranes. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15945-15960	13	40
308	Viscoelasticity and rheology in the regimes from dilute to concentrated in cellulose 1-ethyl-3-methylimidazolium acetate solutions. <i>Cellulose</i> , 2013 , 20, 1343-1352	5.5	40
307	CeF-Doped Porous Carbon Nanofibers as Sulfur Immobilizers in Cathode Material for High-Performance Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 12626-12638	9.5	39

306	Towards high energy density LiS batteries with high sulfur loading: From key issues to advanced strategies. <i>Energy Storage Materials</i> , 2020 , 32, 320-355	19.4	39
305	The excellent performance of amorphous Cr2O3, SnO2, SrO and graphene oxide/ferric oxide in glucose conversion into 5-HMF. <i>Catalysis Communications</i> , 2015 , 69, 76-80	3.2	38
304	Bio-inspired amino-acid-functionalized cellulose whiskers incorporated into sulfonated polysulfone for proton exchange membrane. <i>Journal of Power Sources</i> , 2019 , 409, 123-131	8.9	38
303	Electrospun cellulose acetate/poly(vinylidene fluoride) nanofibrous membrane for polymer lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2016 , 20, 2791-2803	2.6	37
302	Highly multiscale structural Poly(vinylidene fluoride/hexafluoropropylene) / poly-m-phenyleneisophthalamide separator with enhanced interface compatibility and uniform lithium-ion flux distribution for dendrite-proof lithium-metal batteries. <i>Energy Storage Materials</i> , 2020 , 26, 334-348	19.4	37
301	Preparation of flexible ultra-fine Al2O3 fiber mats via the solution blowing method. <i>Ceramics International</i> , 2015 , 41, 409-415	5.1	36
300	Rheological characterization of concentrated cellulose solutions in 1-allyl-3-methylimidazolium chloride. <i>Journal of Applied Polymer Science</i> , 2012 , 124, 3419-3425	2.9	36
299	Hydrophilic Graphene Preparation from Gallic Acid Modified Graphene Oxide in Magnesium Self-Propagating High Temperature Synthesis Process. <i>Scientific Reports</i> , 2016 , 6, 35184	4.9	34
298	A novel core-shell structured poly-m-phenyleneisophthalamide@polyvinylidene fluoride nanofiber membrane for lithium ion batteries with high-safety and stable electrochemical performance. <i>Electrochimica Acta</i> , 2019 , 300, 263-273	6.7	33
297	Designing of root-soil-like polyethylene oxide-based composite electrolyte for dendrite-free and long-cycling all-solid-state lithium metal batteries. <i>Chemical Engineering Journal</i> , 2020 , 389, 124478	14.7	33
296	A novel method for fabricating elastic conductive polyurethane filaments by in-situ reduction of polydopamine and electroless silver plating. <i>Materials and Design</i> , 2017 , 113, 254-263	8.1	33
295	Solution Blown Silicon Carbide Porous Nanofiber Membrane as Electrode Materials for Supercapacitors. <i>Electrochimica Acta</i> , 2016 , 207, 257-265	6.7	33
294	Hierarchical dual-nanonet of polymer nanofibers and supramolecular nanofibrils for air filtration with a high filtration efficiency, low air resistance and high moisture permeation. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 14093-14100	13	33
293	Non-leaching antibacterial cellulose triacetate reverse osmosis membrane via covalent immobilization of quaternary ammonium cations. <i>Carbohydrate Polymers</i> , 2018 , 181, 1102-1111	10.3	33
292	Rheological behaviors of cellulose in 1-ethyl-3-methylimidazolium chloride/dimethylsulfoxide. <i>Carbohydrate Polymers</i> , 2014 , 110, 292-7	10.3	32
291	Fabrication of ZrO2 ceramic fiber mats by solution blowing process. <i>Ceramics International</i> , 2014 , 40, 15013-15018	5.1	32
290	Surface modified glass fiber membranes with superior chemical and thermal resistance for O/W separation. <i>Chemical Engineering Journal</i> , 2017 , 309, 30-40	14.7	32
289	A comparative study of alumina fibers prepared by electro-blown spinning (EBS) and solution blowing spinning (SBS). <i>Materials Letters</i> , 2015 , 160, 533-536	3.3	31

288	Sensitive and fast optical HCl gas sensor using a nanoporous fiber membrane consisting of poly(lactic acid) doped with tetraphenylporphyrin. <i>Mikrochimica Acta</i> , 2016 , 183, 1713-1720	5.8	30
287	DSC analysis of isothermally melt-crystallized bacterial poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) films. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011 , 103, 1001-1006	4.1	30
286	Manufacture and properties of cellulose/O-hydroxyethyl chitosan blend fibers. <i>Carbohydrate Polymers</i> , 2010 , 81, 541-544	10.3	30
285	The synthesis of diphenyl carbonate from dimethyl carbonate and phenol over mesoporous MoO ₃ /SiMCM-41. <i>Journal of Molecular Catalysis A</i> , 2008 , 289, 100-105		30
284	Optimization of Na ₃ Zr ₂ Si ₂ PO ₁₂ ceramic electrolyte and interface for high performance solid-state sodium battery. <i>Ceramics International</i> , 2019 , 45, 1770-1776	5.1	30
283	Designing MnO ₂ & carbon composite porous nanofiber structure for supercapacitor applications. <i>Electrochimica Acta</i> , 2017 , 258, 116-123	6.7	29
282	Fabrication of a polyvinylidene fluoride tree-like nanofiber web for ultra high performance air filtration. <i>RSC Advances</i> , 2016 , 6, 91243-91249	3.7	29
281	Electrocatalytic oxidation of n-propanol to produce propionic acid using an electrocatalytic membrane reactor. <i>Chemical Communications</i> , 2013 , 49, 4501-3	5.8	28
280	Nitrogen and fluorine hybridization state tuning in hierarchical honeycomb-like carbon nanofibers for optimized electrocatalytic ORR in alkaline and acidic electrolytes. <i>Journal of Power Sources</i> , 2019 , 413, 376-383	8.9	28
279	Fabrication of porous Fe ₂ O ₃ /PTFE nanofiber membranes and their application as a catalyst for dye degradation. <i>RSC Advances</i> , 2016 , 6, 32646-32652	3.7	27
278	Chitin nanowhisker-supported sulfonated poly(ether sulfone) proton exchange for fuel cell applications. <i>Carbohydrate Polymers</i> , 2016 , 140, 195-201	10.3	27
277	Constructing Amino-Functionalized Flower-like Metal-Organic Framework Nanofibers in Sulfonated Poly(ether sulfone) Proton Exchange Membrane for Simultaneously Enhancing Interface Compatibility and Proton Conduction. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 39979-39990	9.5	27
276	Novel flexible Mn-based carbon nanofiber films as interlayers for stable lithium-metal battery. <i>Chemical Engineering Journal</i> , 2019 , 360, 900-911	14.7	27
275	Preparation of a polyphenylene sulfide membrane from a ternary polymer/solvent/non-solvent system by thermally induced phase separation. <i>RSC Advances</i> , 2017 , 7, 10503-10516	3.7	26
274	Electrospun polyvinylidene fluoride/fluorinated acrylate copolymer tree-like nanofiber membrane with high flux and salt rejection ratio for direct contact membrane distillation. <i>Desalination</i> , 2019 , 466, 68-76	10.3	26
273	A 3D polyacrylonitrile nanofiber and flexible polydimethylsiloxane macromolecule combined all-solid-state composite electrolyte for efficient lithium metal batteries. <i>Nanoscale</i> , 2020 , 12, 14279-14289	7.7	26
272	Efficient conversion of chitin biomass into 5-hydroxymethylfurfural over metal salts catalysts in dimethyl sulfoxide-water mixture under hydrothermal conditions. <i>Polymer Degradation and Stability</i> , 2016 , 134, 105-114	4.7	26
271	Tree-like cellulose nanofiber membranes modified by citric acid for heavy metal ion (Cu ²⁺) removal. <i>Cellulose</i> , 2019 , 26, 945-958	5.5	26

270	Preparation of durable and flame retardant lyocell fibers by a one-pot chemical treatment. <i>Cellulose</i> , 2018 , 25, 6745-6758	5.5	26
269	Three-dimensional porous carbon nanofiber loading MoS ₂ nanoflake-flowerballs as a high-performance anode material for Li-ion capacitor. <i>Applied Surface Science</i> , 2019 , 484, 392-402	6.7	25
268	Solution blowing of activated carbon nanofibers for phenol adsorption. <i>RSC Advances</i> , 2015 , 5, 5801-5808	3.7	25
267	Efficient conversion of chitosan into 5-hydroxymethylfurfural via hydrothermal synthesis in ionic liquids aqueous solution. <i>Polymer Degradation and Stability</i> , 2015 , 121, 331-339	4.7	25
266	Carbonaceous nanofiber-supported sulfonated poly(ether ether ketone) membranes for fuel cell applications. <i>Materials Letters</i> , 2014 , 115, 248-251	3.3	25
265	Solution blown aligned carbon nanofiber yarn as supercapacitor electrode. <i>Journal of Materials Science: Materials in Electronics</i> , 2013 , 24, 4769-4773	2.1	25
264	Studies on the carboxymethylation and methylation of bisphenol A with dimethyl carbonate over TiO ₂ /SBA-15. <i>Journal of Molecular Catalysis A</i> , 2010 , 315, 60-68		25
263	A fresh hierarchical-structure gel poly-m-phenyleneisophthalamide nanofiber separator assisted by electronegative nanoclay-filler towards high-performance and advanced-safety lithium-ion battery. <i>Chemical Engineering Journal</i> , 2020 , 384, 123312	14.7	25
262	Direct conversion of chitosan to 5-hydroxymethylfurfural in water using Brønsted-Lewis acidic ionic liquids as catalysts. <i>RSC Advances</i> , 2016 , 6, 103774-103781	3.7	25
261	Fabrication of centrifugally spun prepared poly(lactic acid)/gelatin/ciprofloxacin nanofibers for antimicrobial wound dressing.. <i>RSC Advances</i> , 2019 , 9, 35328-35335	3.7	25
260	Novel configuration of heat-resistant gel polymer electrolyte with electrospun poly (vinylidene fluoride-co-hexafluoropropylene) and poly-m-phenyleneisophthalamide composite separator for high-safety lithium-ion battery. <i>Materials Letters</i> , 2019 , 236, 101-105	3.3	25
259	Functional double-layer membrane as separator for lithium-sulfur battery with strong catalytic conversion and excellent polysulfide-blocking. <i>Chemical Engineering Journal</i> , 2020 , 382, 122918	14.7	25
258	ZnS nanoparticles anchored on porous carbon nanofibers as anode materials for lithium ion batteries. <i>Electrochemistry Communications</i> , 2018 , 96, 1-5	5.1	25
257	Solution blown biofunctionalized poly(vinylidene fluoride) nanofibers for application in proton exchange membrane fuel cells. <i>Electrochimica Acta</i> , 2017 , 258, 24-33	6.7	24
256	Designing of multilevel-nanofibers-based organic/inorganic hybrid gel electrolyte enabling an innovative lithium-ion battery with superior ionic transport capability and advanced security. <i>Chemical Engineering Journal</i> , 2020 , 390, 124571	14.7	24
255	Facilitation of lithium polysulfides adsorption by nitrogen doped carbon nanofibers with 3D interconnected pore structures for high-stable lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2018 , 281, 257-265	6.7	24
254	Fabrication and characterization of dual-functional ultrafine composite fibers with phase-change energy storage and luminescence properties. <i>Scientific Reports</i> , 2017 , 7, 40390	4.9	23
253	Electrospun SiO ₂ /PMIA nanofiber membranes with higher ionic conductivity for high temperature resistance lithium-ion batteries. <i>Fibers and Polymers</i> , 2017 , 18, 212-220	2	23

252	A boosting extreme learning machine for near-infrared spectral quantitative analysis of diesel fuel and edible blend oil samples. <i>Analytical Methods</i> , 2017 , 9, 2983-2989	3.2	22
251	Superhydrophilic poly(p-phenylene sulfide) membrane preparation with acid/alkali solution resistance and its usage in oil/water separation. <i>Separation and Purification Technology</i> , 2018 , 192, 262-270	8.3	22
250	Synthesis, characterization, and thermal energy storage properties of a novel thermoplastic polyurethane phase change material. <i>Materials Letters</i> , 2014 , 121, 15-18	3.3	22
249	Excellent performance of TiO ₂ (B) nanotubes in selective transesterification of DMC with phenol derivatives. <i>Chemical Engineering Journal</i> , 2016 , 301, 12-18	14.7	22
248	Amino acid clusters supported by cellulose nanofibers for proton exchange membranes. <i>Journal of Power Sources</i> , 2019 , 438, 227035	8.9	21
247	Proton-Conducting Poly- γ -Glutamic Acid Nanofiber Embedded Sulfonated Poly(ether sulfone) for Proton Exchange Membranes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 21865-21873	9.5	21
246	Influence of temperature on the solution rheology of cellulose in 1-ethyl-3-methylimidazolium chloride/dimethyl sulfoxide. <i>Cellulose</i> , 2015 , 22, 3077-3087	5.5	21
245	Preparation, characterization of PPS micro-porous membranes and their excellent performance in vacuum membrane distillation. <i>Journal of Membrane Science</i> , 2018 , 556, 107-117	9.6	21
244	Morphologies and Properties of PET Nano Porous Luminescence Fiber: Oil Absorption and Fluorescence-Indicating Functions. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 2828-2836	9.5	21
243	Removal of Textile Dyes from Aqueous Solution by Heterogeneous Photo-Fenton Reaction Using Modified PAN Nanofiber Fe Complex as Catalyst. <i>International Journal of Photoenergy</i> , 2013 , 2013, 1-9	2.1	21
242	The studies on the Friedel-Crafts acylation of toluene with acetic anhydride over HPW/TiO ₂ . <i>Fuel Processing Technology</i> , 2011 , 92, 2011-2015	7.2	21
241	Metal-organic framework anchored sulfonated poly(ether sulfone) nanofibers as highly conductive channels for hybrid proton exchange membranes. <i>Journal of Power Sources</i> , 2020 , 450, 227592	8.9	21
240	A comparative study of UHMWPE fibers prepared by flash-spinning and gel-spinning. <i>Materials Letters</i> , 2015 , 147, 79-81	3.3	20
239	Multifunctional LaF ₃ doped pomegranate-like porous carbon nanofibers with high-speed transfer channel and strong polar interface for high stability lithium sulfur battery. <i>Chemical Engineering Journal</i> , 2021 , 403, 126449	14.7	20
238	A phytic acid-based chelating coordination embedding structure of phosphorusBoronNitride synergistic flame retardant to enhance durability and flame retardancy of cotton. <i>Cellulose</i> , 2020 , 27, 4817-4829	5.5	19
237	Preparation of poly (tetrafluoroethylene) nanofiber film by electro-blown spinning method. <i>Materials Letters</i> , 2016 , 171, 236-239	3.3	19
236	Synthesis, characterization and catalytic application of novel ionic liquids based on thiazolium cation. <i>Journal of Molecular Liquids</i> , 2015 , 204, 156-161	6	19
235	A review on electronically conducting polymers for lithium-sulfur battery and lithium-selenium battery: Progress and prospects. <i>Journal of Energy Chemistry</i> , 2021 , 58, 523-556	12	19

234	A fluorescent and colorimetric sensor based on a porphyrin doped polystyrene nanoporous fiber membrane for HCl gas detection. <i>RSC Advances</i> , 2017 , 7, 26849-26856	3.7	18
233	Preparation and catalytic behavior of hollow Ag/carbon nanofibers. <i>Catalysis Communications</i> , 2015 , 69, 150-153	3.2	18
232	Development and performance study of polypropylene/polyester bicomponent melt-blown for filtration. <i>Journal of Applied Polymer Science</i> , 2012 , 124, 296-301	2.9	18
231	C as fine fillers to improve poly(phenylene sulfide) electrical conductivity and mechanical property. <i>Scientific Reports</i> , 2017 , 7, 4443	4.9	18
230	Preparation and characterization of rare earth fluorescent anti-counterfeiting fiber via sol-gel method. <i>Journal of Rare Earths</i> , 2010 , 28, 211-214	3.7	18
229	Preparation and characterization of hollow Fe ₂ O ₃ ultra-fine fibers by centrifugal spinning. <i>Materials and Design</i> , 2016 , 96, 439-445	8.1	18
228	Taming polysulfides and facilitating lithium-ion migration: Novel electrospinning MOFs@PVDF-based composite separator with spiderweb-like structure for Li-S batteries. <i>Electrochimica Acta</i> , 2021 , 365, 137344	6.7	18
227	Embedding phosphoric acid-doped cellulose nanofibers into sulfonated poly (ether sulfone) for proton exchange membrane. <i>Polymer</i> , 2018 , 156, 179-185	3.9	18
226	A novel hot-pressed electrospun polyimide separator for lithium-sulfur batteries. <i>Materials Letters</i> , 2018 , 233, 224-227	3.3	18
225	Porphyrin-Functionalized Hierarchical Porous Silica Nanofiber Membrane for Rapid HCl Gas Detection. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 11668-11674	3.9	17
224	A novel mixed matrix membrane allowing for flow-through removal of boron. <i>Chemical Engineering Journal</i> , 2017 , 308, 557-567	14.7	17
223	One-step electrospinning cellulose nanofibers with superhydrophilicity and superoleophobicity underwater for high-efficiency oil-water separation. <i>International Journal of Biological Macromolecules</i> , 2020 , 162, 1536-1545	7.9	17
222	Nanofiber hybrid membranes: progress and application in proton exchange membranes. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 3729-3766	13	17
221	Amino acid-functionalized metal organic framework with excellent proton conductivity for proton exchange membranes. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 1163-1173	6.7	17
220	Preparation of a polyvinylidene fluoride tree-like nanofiber mat loaded with manganese dioxide for highly efficient lead adsorption. <i>RSC Advances</i> , 2017 , 7, 8220-8229	3.7	16
219	Zeolitic imidazolate framework decorated on 3D nanofiber network towards superior proton conduction for proton exchange membrane. <i>Journal of Membrane Science</i> , 2020 , 601, 117914	9.6	16
218	Biomass-derived tube-like nitrogen and oxygen dual-doped porous carbon in the sulfur cathode for lithium sulfur battery. <i>Renewable Energy</i> , 2020 , 155, 309-316	8.1	16
217	Fabrication of electrospun sulfonated poly(ether sulfone) nanofibers with amino modified SiO ₂ nanosphere for optimization of nanochannels in proton exchange membrane. <i>Solid State Ionics</i> , 2020 , 349, 115300	3.3	16

216	Effective conversion sucrose into 5-hydroxymethylfurfural by tyrosine in [Emim]Br. <i>Journal of Molecular Catalysis A</i> , 2013 , 379, 350-354		16
215	Study on the reaction between bisphenol A and dimethyl carbonate over organotin oxide. <i>Catalysis Communications</i> , 2013 , 33, 20-23	3.2	16
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211	Rational design of hollow oxygen deficiency-enriched NiFe ₂ O ₄ @N/rGO as bifunctional electrocatalysts for overall water splitting. <i>Journal of Energy Chemistry</i> , 2021 , 54, 595-603	12	16
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207	Antibacterial blend films of cellulose and chitosan prepared from binary ionic liquid system. <i>Fibers and Polymers</i> , 2017 , 18, 852-858	2	15
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205	The recent research progress and prospect of gel polymer electrolytes in lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2021 , 413, 127427	14.7	15
204	Biofunctionalized nanofiber hybrid proton exchange membrane based on acid-base ion-nanochannels with superior proton conductivity. <i>Journal of Power Sources</i> , 2020 , 452, 227839	8.9	14
203	Proton-conducting amino acid-modified chitosan nanofibers for nanocomposite proton exchange membranes. <i>European Polymer Journal</i> , 2019 , 119, 327-334	5.2	14
202	Nascent Cu(0) nanoparticles-mediated single electron transfer living radical polymerization of acrylonitrile at ambient temperature. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 1468-1474	2.5	14
201	Novel structure design of composite proton exchange membranes with continuous and through-membrane proton-conducting channels. <i>Journal of Power Sources</i> , 2017 , 365, 92-97	8.9	14
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