Yunsheng Ye

List of Publications by Year
in descending order

91 papers	5,451 citations	61984 43 h-index	82547 72 g-index
92 all docs	92 docs citations	92 times ranked	7003 citing authors

#	Article	IF	Citations
1	Ionic liquid polymer electrolytes. Journal of Materials Chemistry A, 2013, 1, 2719-2743.	10.3	441
2	Superior flame retardancy and smoke suppression of epoxy-based composites with phosphorus/nitrogen co-doped graphene. Journal of Hazardous Materials, 2018, 346, 140-151.	12.4	173
3	Advanced carbon materials/olivine LiFePO 4 composites cathode for lithium ion batteries. Journal of Power Sources, 2016, 318, 93-112.	7.8	171
4	Ultralight Layerâ€byâ€Layer Selfâ€Assembled MoS₂â€Polymer Modified Separator for Simultaneously Trapping Polysulfides and Suppressing Lithium Dendrites. Advanced Energy Materials, 2018, 8, 1802430.	19.5	170
5	Sulfonated Polyimide Proton Exchange Membranes with Graphene Oxide show Improved Proton Conductivity, Methanol Crossover Impedance, and Mechanical Properties. Advanced Energy Materials, 2011, 1, 1220-1224.	19.5	164
6	Microporous polymer electrolyte based on PVDF/PEO star polymer blends for lithium ion batteries. Journal of Membrane Science, 2015, 491, 82-89.	8.2	161
7	Improving thermal and flame retardant properties of epoxy resin by functionalized graphene containing phosphorous, nitrogen and silicon elements. Composites Part A: Applied Science and Manufacturing, 2017, 103, 74-83.	7.6	158
8	A flexible, self-healing and highly stretchable polymer electrolyte via quadruple hydrogen bonding for lithium-ion batteries. Journal of Materials Chemistry A, 2018, 6, 11725-11733.	10.3	155
9	Simultaneous improvement in the flame resistance and thermal conductivity of epoxy/Al₂O₃ composites by incorporating polymeric flame retardant-functionalized graphene. Journal of Materials Chemistry A, 2017, 5, 13544-13556.	10.3	148
10	High-performance epoxy/silica coated silver nanowire composites as underfill material for electronic packaging. Composites Science and Technology, 2014, 105, 80-85.	7.8	146
11	Water Soluble Polymers as Proton Exchange Membranes for Fuel Cells. Polymers, 2012, 4, 913-963.	4.5	143
12	Synergetic Improvement in Thermal Conductivity and Flame Retardancy of Epoxy/Silver Nanowires Composites by Incorporating â€œBranch-Likeâ€•Flame-Retardant Functionalized Graphene. ACS Applied Materials & Interfaces, 2018, 10, 21628-21641.	8.0	142
13	Versatile Grafting Approaches to Functionalizing Individually Dispersed Graphene Nanosheets Using RAFT Polymerization and Click Chemistry. Chemistry of Materials, 2012, 24, 2987-2997.	6.7	139
14	Alkali doped polyvinyl alcohol/graphene electrolyte for direct methanol alkaline fuel cells. Journal of Power Sources, 2013, 239, 424-432.	7.8	139
15	Highly thermally conductive flame retardant epoxy nanocomposites with multifunctional ionic liquid flame retardant-functionalized boron nitride nanosheets. Journal of Materials Chemistry A, 2018, 6, 20500-20512.	10.3	123
16	Multiple synergistic effects of graphene-based hybrid and hexagonal born nitride in enhancing thermal conductivity and flame retardancy of epoxy. Chemical Engineering Journal, 2020, 379, 122402.	12.7	120
17	Multi-functional interface tailoring for enhancing thermal conductivity, flame retardancy and dynamic mechanical property of epoxy/Al2O3 composites. Composites Science and Technology, 2018, 160, 42-49.	7.8	107
18	Fast electrochemical kinetics and strong polysulfide adsorption by a highly oriented MoS₂ nanosheet@N-doped carbon interlayer for lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2019, 7, 7897-7906.	10.3	93

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19	Enhancing thermal oxidation and fire resistance of reduced graphene oxide by phosphorus and nitrogen co-doping: Mechanism and kinetic analysis. Carbon, 2019, 146, 650-659.	10.3	90
20	Flexible Organicâ€“Inorganic Hybrid Solid Electrolytes Formed via Thiolâ€“Acrylate Photopolymerization. Macromolecules, 2017, 50, 1970-1980.	4.8	89
21	A new graphene-modified protic ionic liquid-based composite membrane for solid polymer electrolytes. Journal of Materials Chemistry, 2011, 21, 10448.	6.7	88
22	Synthesis and properties of low-dielectric-constant polyimides with introduced reactive fluorine polyhedral oligomeric silsesquioxanes. Journal of Polymer Science Part A, 2006, 44, 5391-5402.	2.3	86
23	A Oneâ€Step Route to CO₂â€Based Block Copolymers by Simultaneous ROCOP of CO₂/Epoxides and RAFT Polymerization of Vinyl Monomers. Angewandte Chemie - International Edition, 2018, 57, 3593-3597.	13.8	77
24	Improved anode materials for lithium-ion batteries comprise non-covalently bonded graphene and silicon nanoparticles. Journal of Power Sources, 2014, 247, 991-998.	7.8	68
25	PANIâ€“PEG copolymer modified LiFePO₄as a cathode material for high-performance lithium ion batteries. Journal of Materials Chemistry A, 2014, 2, 19315-19323.	10.3	68
26	Biocompatible reduced graphene oxide sheets with superior water dispersibility stabilized by cellulose nanocrystals and their polyethylene oxide composites. Green Chemistry, 2016, 18, 1674-1683.	9.0	67
27	Interpenetrating network-forming sulfonated poly(vinyl alcohol) proton exchange membranes for direct methanol fuel cell applications. International Journal of Hydrogen Energy, 2011, 36, 11936-11945.	7.1	65
28	Size effect of nickel oxide for lithium ion battery anode. Journal of Power Sources, 2014, 253, 27-34.	7.8	65
29	An effective non-covalent grafting approach to functionalize individually dispersed reduced graphene oxide sheets with high grafting density, solubility and electrical conductivity. Nanoscale, 2015, 7, 3548-3557.	5.6	63
30	Synthesis and characterization of new sulfonated polytriazole proton exchange membrane by click reaction for direct methanol fuel cells (DMFCs). International Journal of Hydrogen Energy, 2011, 36, 15333-15343.	7.1	62
31	Advances on Thermally Conductive Epoxyâ€Based Composites as Electronic Packaging Underfill Materialsâ€”A Review. Advanced Materials, 2022, 34, e2201023.	21.0	61
32	A polysulfone-based anion exchange membrane for phosphoric acid concentration and purification by electro-electrodialysis. Journal of Membrane Science, 2018, 552, 86-94.	8.2	60
33	SiO₂@MoS₂ coreâ€“shell nanocomposite layers with high lithium ion diffusion as a triple polysulfide shield for high performance lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2019, 7, 7644-7653.	10.3	60
34	Sulfonated poly(ether ether ketone) membranes crosslinked with sulfonic acid containing benzoxazine monomer as proton exchange membranes. Polymer, 2009, 50, 3196-3203.	3.8	57
35	The effect of sulfonic acid groups within a polyhedral oligomeric silsesquioxane containing cross-linked proton exchange membrane. Polymer, 2010, 51, 84-91.	3.8	55
36	A simple approach toward lowâ€dielectric polyimide nanocomposites: Blending the polyimide precursor with a fluorinated polyhedral oligomeric silsesquioxane. Journal of Polymer Science Part A, 2008, 46, 6296-6304.	2.3	53

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37	High performance composite polymer electrolytes using polymeric ionic liquid-functionalized graphene molecular brushes. Journal of Materials Chemistry A, 2015, 3, 18064-18073.	10.3	50
38	Recent advances in covalent functionalization of carbon nanomaterials with polymers: Strategies and perspectives. Journal of Polymer Science Part A, 2017, 55, 622-631.	2.3	49
39	Versatile grafting approaches to star-shaped POSS-containing hybrid polymers using RAFT polymerization and click chemistry. Chemical Communications, 2011, 47, 10656.	4.1	48
40	Large-scaled covalent triazine framework modified separator as efficient inhibit polysulfide shuttling in Li-S batteries. Chemical Engineering Journal, 2019, 375, 121977.	12.7	48
41	Constructing desirable ion-conducting channels within ionic liquid-based composite polymer electrolytes by using polymeric ionic liquid-functionalized 2D mesoporous silica nanoplates. Nano Energy, 2017, 33, 110-123.	16.0	46
42	Preparation and characterization of high-durability zwitterionic crosslinked proton exchange membranes. Journal of Membrane Science, 2010, 362, 29-37.	8.2	44
43	Synthesis and characterization of sulfonated polytriazole-clay proton exchange membrane by in situ polymerization and click reaction for direct methanol fuel cells. Journal of Power Sources, 2012, 208, 144-152.	7.8	43
44	Enhanced ion transport in polymerâ€“ionic liquid electrolytes containing ionic liquid-functionalized nanostructured carbon materials. Carbon, 2015, 86, 86-97.	10.3	43
45	Ultralow-Carbon Nanotube-Toughened Epoxy: The Critical Role of a Double-Layer Interface. ACS Applied Materials & Interfaces, 2018, 10, 1204-1216.	8.0	42
46	A new supramolecular sulfonated polyimide for use in proton exchange membranes for fuel cells. Chemical Communications, 2010, 46, 7554.	4.1	38
47	Effect of morphology of mesoporous silica on characterization of protic ionic liquid-based composite membranes. Journal of Power Sources, 2011, 196, 5408-5415.	7.8	38
48	Polytriazole/clay nanocomposites synthesized using in situ polymerization and click chemistry. Polymer, 2010, 51, 430-436.	3.8	37
49	Tough and Flexible, Super Ionâ€Conductive Electrolyte Membranes for Lithiumâ€Based Secondary Battery Applications. Advanced Functional Materials, 2021, 31, 2008586.	14.9	37
50	Biocomplementary interaction behavior in DNAâ€like and RNAâ€like polymers. Journal of Polymer Science Part A, 2009, 47, 6388-6395.	2.3	36
51	Layer-by-layer self-assembled covalent triazine framework/electrical conductive polymer functional separator for Li-S battery. Chemical Engineering Journal, 2021, 404, 127044.	12.7	36
52	Highly thermally conductive yet mechanically robust composites with nacre-mimetic structure prepared by evaporation-induced self-assembly approach. Chemical Engineering Journal, 2021, 405, 126865.	12.7	34
53	Scalable Approach to Construct Self-Assembled Graphene-Based Films with An Ordered Structure for Thermal Management. ACS Applied Materials & Interfaces, 2018, 10, 41690-41698.	8.0	32
54	Safety-reinforced plastic crystal composite polymer electrolyte by 3D MoS2-based nano-hybrid for Li-metal batteries. Journal of Power Sources, 2018, 405, 7-17.	7.8	32

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55	UV-curable boron nitride nanosheet/ionic liquid-based crosslinked composite polymer electrolyte in lithium metal batteries. Journal of Power Sources, 2019, 414, 283-292.	7.8	30
56	Dual-Functional Interlayer Based on Radially Oriented Ultrathin MoS₂ Nanosheets for High-Performance Lithiumâ€“Sulfur Batteries. ACS Applied Energy Materials, 2019, 2, 1702-1711.	5.1	29
57	Well-structured holographic polymer dispersed liquid crystals by employing acrylamide and doping ZnS nanoparticles. Materials Chemistry Frontiers, 2017, 1, 294-303.	5.9	28
58	Mesoporous silica nanoplates facilitating fast Li⁺ diffusion as effective polysulfide-trapping materials for lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2019, 7, 9110-9119.	10.3	27
59	Synthesis and characterization of thermally cured polytriazole polymers incorporating main or side chain benzoxazine crosslinking moieties. Polymer Chemistry, 2014, 5, 2863-2871.	3.9	26
60	Iron-catalyzed AGET ATRP of methyl methacrylate using an alcohol as a reducing agent in a polar solvent. Dalton Transactions, 2014, 43, 16528-16533.	3.3	25
61	A promising nanohybrid of silicon carbide nanowires scrolled by graphene oxide sheets with a synergistic effect for poly(propylene carbonate) nanocomposites. Journal of Materials Chemistry A, 2017, 5, 22361-22371.	10.3	25
62	A new organic/inorganic electroluminescent material with a silsesquioxane core. Acta Materialia, 2009, 57, 1938-1946.	7.9	24
63	Bioinspired Photo-Cross-Linked Nanofibers from Uracil-Functionalized Polymers. ACS Macro Letters, 2012, 1, 159-162.	4.8	22
64	The enhanced actuation response of an ionic polymerâ€“metal composite actuator based on sulfonated polyphenylsulfone. Polymer Chemistry, 2014, 5, 6097-6107.	3.9	22
65	New proton conducting membranes with high retention of protic ionic liquids. Journal of Materials Chemistry, 2011, 21, 2723.	6.7	20
66	Selfâ€Assembled Polymeric Ionic Liquidâ€Functionalized Cellulose Nanoâ€crystals: Constructing 3D Ionâ€conducting Channels Within Ionic Liquidâ€based Composite Polymer Electrolytes. Chemistry - A European Journal, 2017, 23, 11881-11890.	3.3	20
67	Comb-shaped anion exchange membrane to enhance phosphoric acid purification by electro-electrodialysis. Journal of Membrane Science, 2019, 573, 64-72.	8.2	20
68	Ionic polymerâ€“metal composite actuators obtained from sulfonated poly(ether ether sulfone) ion-exchange membranes. Composites Part A: Applied Science and Manufacturing, 2016, 81, 13-21.	7.6	19
69	Polymeric ionic liquid-functionalized mesoporous silica nanoplates: a new high-performance composite polymer electrolyte for lithium batteries. Electrochimica Acta, 2017, 245, 1010-1022.	5.2	19
70	CTF/MWCNT hybrid multi-functional separator as high-efficiency polysulfide tamer for high-performance Liâ€“S battery. Electrochimica Acta, 2021, 367, 137418.	5.2	18
71	Tuning transport properties by manipulating the phase segregation of tetramethyldisiloxane segments in modified polyimide electrolytes. Journal of Power Sources, 2011, 196, 3470-3478.	7.8	17
72	A simple and controllable graphene-templated approach to synthesise 2D silica-based nanomaterials using water-in-oil microemulsions. Chemical Communications, 2016, 52, 575-578.	4.1	17

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73	Bio-inspired stem-like composites based on highly aligned SiC nanowires. Chemical Engineering Journal, 2020, 389, 123466.	12.7	16
74	Effect of LiClO4 on the thermal and morphological properties of organic/inorganic polymer hybrids. Polymer, 2008, 49, 3625-3628.	3.8	15
75	Improvement of biofouling resistance on bacterial cellulose membranes. Biochemical Engineering Journal, 2013, 78, 138-145.	3.6	15
76	Noncovalent immobilization of pyrene-terminated hyperbranched triazole-based polymeric ionic liquid onto graphene for highly active and recyclable catalysis of CO₂/epoxide cycloaddition. Catalysis Science and Technology, 2017, 7, 4173-4181.	4.1	15
77	A Oneâ€Step Route to CO₂â€Based Block Copolymers by Simultaneous ROCOP of CO₂/Epoxides and RAFT Polymerization of Vinyl Monomers. Angewandte Chemie, 2018, 130, 3655-3659.	2.0	13
78	Performance and Reliability Improvement under High Current Densities in Black Phosphorus Transistors by Interface Engineering. ACS Applied Materials & Interfaces, 2019, 11, 1587-1594.	8.0	13
79	In-situ shear exfoliation and thermal conductivity of SBS/Graphite nanoplatelet nanocomposites. Composites Part B: Engineering, 2020, 197, 108172.	12.0	12
80	Facile synthesis of SnO2-embedded carbon nanomaterials via glucose-mediated oxidation of Sn particles. Journal of Materials Chemistry, 2011, 21, 10705.	6.7	11
81	Low-voltage-driven and highly-diffractive holographic polymer dispersed liquid crystals with spherical morphology. RSC Advances, 2017, 7, 51847-51857.	3.6	11
82	Nacre-inspired Polymer Nanocomposites with High-performance and Multifunctional Properties Realized by a Facile Evaporation-induced Self-assembly Approach. ACS Sustainable Chemistry and Engineering, 2019, 7, 19787-19798.	6.7	11
83	Ion-selective aramid nanofiber-based Janus separators fabricated by a dry-wet phase inversion approach for lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2022, 10, 5317-5327.	10.3	11
84	Electrically and thermally conductive Al2O3/C nanofiber membrane filled with organosilicon as a multifunctional integrated interlayer for lithium-sulfur batteries under lean-electrolyte and thermal gradient. Chemical Engineering Journal, 2022, 442, 135825.	12.7	11
85	Functional Covalent Triazine Frameworksâ€Based Quasiâ€Solidâ€State Electrolyte Used to Enhance Lithium Metal Battery Safety. Batteries and Supercaps, 2020, 3, 936-945.	4.7	9
86	Defect-free graphene metal oxide composites: formed by lithium mediated exfoliation of graphite. Journal of Materials Chemistry, 2012, 22, 14722.	6.7	8
87	Efficient thermal management of lithium-sulfur batteries by highly thermally conductive LBL-assembled composite separators. Electrochimica Acta, 2022, 407, 139807.	5.2	5
88	Living radical polymerization of vinyl acetate mediated by iron(iii) acetylacetonate in the presence of a reducing agent. RSC Advances, 2015, 5, 96345-96352.	3.6	4
89	MoS₂ Decorated Silver Nanowireâ€Reduced Graphene Oxide Aerogel Microâ€Particle for Thermally Conductive Polymer Composites with Enhanced Flame Retardancy. Macromolecular Rapid Communications, 2022, 43, e2200026.	3.9	2
90	Removal of Metal Ions in Phosphoric Acid by Electro-Electrodialysis with Cross-Linked Anion-Exchange Membranes. ACS Omega, 2021, 6, 32417-32430.	3.5	1

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91	Polyimide-Based Electrolyte Modified with Siloxane Segments for Proton Transportation. ECS Transactions, 2010, 33, 845-853.	0.5	0