

# Yunsheng Ye

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

89 papers	4,192 citations	40 h-index	62 g-index
92 ext. papers	4,869 ext. citations	9 avg, IF	5.7 L-index

#	Paper	IF	Citations
89	Efficient thermal management of lithium-sulfur batteries by highly thermally conductive LBL-assembled composite separators. <i>Electrochimica Acta</i> , <b>2022</b> , 407, 139807	6.7	1
88	MoS Decorated Silver Nanowire-Reduced Graphene Oxide Aerogel Micro-Particle for Thermally Conductive Polymer Composites with Enhanced Flame Retardancy.. <i>Macromolecular Rapid Communications</i> , <b>2022</b> , e2200026	4.8	
87	Electrically and thermally conductive Al <sub>2</sub> O <sub>3</sub> /C nanofiber membrane filled with organosilicon as a multifunctional integrated interlayer for lithium-sulfur batteries under lean-electrolyte and thermal gradient. <i>Chemical Engineering Journal</i> , <b>2022</b> , 442, 135825	14.7	0
86	Advances on thermal conductive epoxy-based composites as electronic packaging underfill materials - A review.. <i>Advanced Materials</i> , <b>2022</b> , e2201023	24	5
85	Removal of Metal Ions in Phosphoric Acid by Electro-Electrodialysis with Cross-Linked Anion-Exchange Membranes.. <i>ACS Omega</i> , <b>2021</b> , 6, 32417-32430	3.9	
84	Layer-by-layer self-assembled covalent triazine framework/electrical conductive polymer functional separator for Li-S battery. <i>Chemical Engineering Journal</i> , <b>2021</b> , 404, 127044	14.7	12
83	Highly thermally conductive yet mechanically robust composites with nacre-mimetic structure prepared by evaporation-induced self-assembly approach. <i>Chemical Engineering Journal</i> , <b>2021</b> , 405, 126865	14.7	14
82	CTF/MWCNT hybrid multi-functional separator as high-efficiency polysulfide tamer for high-performance LiS battery. <i>Electrochimica Acta</i> , <b>2021</b> , 367, 137418	6.7	7
81	Tough and Flexible, Super Ion-Conductive Electrolyte Membranes for Lithium-Based Secondary Battery Applications. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2008586	15.6	13
80	Functional Covalent Triazine Frameworks-Based Quasi-Solid-State Electrolyte Used to Enhance Lithium Metal Battery Safety. <i>Batteries and Supercaps</i> , <b>2020</b> , 3, 936-945	5.6	8
79	In-situ shear exfoliation and thermal conductivity of SBS/Graphite nanoplatelet nanocomposites. <i>Composites Part B: Engineering</i> , <b>2020</b> , 197, 108172	10	10
78	Bio-inspired stem-like composites based on highly aligned SiC nanowires. <i>Chemical Engineering Journal</i> , <b>2020</b> , 389, 123466	14.7	10
77	Multiple synergistic effects of graphene-based hybrid and hexagonal born nitride in enhancing thermal conductivity and flame retardancy of epoxy. <i>Chemical Engineering Journal</i> , <b>2020</b> , 379, 122402	14.7	65
76	Dual-Functional Interlayer Based on Radially Oriented Ultrathin MoS <sub>2</sub> Nanosheets for High-Performance Lithium-Sulfur Batteries. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 1702-1711	6.1	19
75	Large-scaled covalent triazine framework modified separator as efficient inhibit polysulfide shuttling in Li-S batteries. <i>Chemical Engineering Journal</i> , <b>2019</b> , 375, 121977	14.7	28
74	Fast electrochemical kinetics and strong polysulfide adsorption by a highly oriented MoS <sub>2</sub> nanosheet@N-doped carbon interlayer for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 7897-7906	13	68
73	SiO <sub>2</sub> @MoS <sub>2</sub> core-shell nanocomposite layers with high lithium ion diffusion as a triple polysulfide shield for high performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 7644-7653	13	47

72	Mesoporous silica nanoplates facilitating fast Li <sup>+</sup> diffusion as effective polysulfide-trapping materials for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 9110-9119	13	17
71	Enhancing thermal oxidation and fire resistance of reduced graphene oxide by phosphorus and nitrogen co-doping: Mechanism and kinetic analysis. <i>Carbon</i> , <b>2019</b> , 146, 650-659	10.4	60
70	Nacre-inspired Polymer Nanocomposites with High-performance and Multifunctional Properties Realized by a Facile Evaporation-induced Self-assembly Approach. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 19787-19798	8.3	6
69	Comb-shaped anion exchange membrane to enhance phosphoric acid purification by electro-electrodialysis. <i>Journal of Membrane Science</i> , <b>2019</b> , 573, 64-72	9.6	11
68	UV-curable boron nitride nanosheet/ionic liquid-based crosslinked composite polymer electrolyte in lithium metal batteries. <i>Journal of Power Sources</i> , <b>2019</b> , 414, 283-292	8.9	26
67	Performance and Reliability Improvement under High Current Densities in Black Phosphorus Transistors by Interface Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 1587-1594	9.5	8
66	A One-Step Route to CO <sub>2</sub> -Based Block Copolymers by Simultaneous ROCOP of CO <sub>2</sub> /Epoxides and RAFT Polymerization of Vinyl Monomers. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 3655-3659	3.6	9
65	A flexible, self-healing and highly stretchable polymer electrolyte via quadruple hydrogen bonding for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 11725-11733	13	102
64	A One-Step Route to CO <sub>2</sub> -Based Block Copolymers by Simultaneous ROCOP of CO <sub>2</sub> /Epoxides and RAFT Polymerization of Vinyl Monomers. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 3593-3597	16.4	49
63	A polysulfone-based anion exchange membrane for phosphoric acid concentration and purification by electro-electrodialysis. <i>Journal of Membrane Science</i> , <b>2018</b> , 552, 86-94	9.6	41
62	Superior flame retardancy and smoke suppression of epoxy-based composites with phosphorus/nitrogen co-doped graphene. <i>Journal of Hazardous Materials</i> , <b>2018</b> , 346, 140-151	12.8	126
61	Multi-functional interface tailoring for enhancing thermal conductivity, flame retardancy and dynamic mechanical property of epoxy/Al <sub>2</sub> O <sub>3</sub> composites. <i>Composites Science and Technology</i> , <b>2018</b> , 160, 42-49	8.6	74
60	Ultralow-Carbon Nanotube-Toughened Epoxy: The Critical Role of a Double-Layer Interface. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 1204-1216	9.5	30
59	Highly thermally conductive flame retardant epoxy nanocomposites with multifunctional ionic liquid flame retardant-functionalized boron nitride nanosheets. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 20500-20512	13	63
58	Ultralight Layer-by-Layer Self-Assembled MoS <sub>2</sub> -Polymer Modified Separator for Simultaneously Trapping Polysulfides and Suppressing Lithium Dendrites. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1802430	21.8	135
57	Scalable Approach to Construct Self-Assembled Graphene-Based Films with An Ordered Structure for Thermal Management. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 41690-41698	9.5	19
56	Safety-reinforced plastic crystal composite polymer electrolyte by 3D MoS <sub>2</sub> -based nano-hybrid for Li-metal batteries. <i>Journal of Power Sources</i> , <b>2018</b> , 405, 7-17	8.9	20
55	Synergetic Improvement in Thermal Conductivity and Flame Retardancy of Epoxy/Silver Nanowires Composites by Incorporating "Branch-Like" Flame-Retardant Functionalized Graphene. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 21628-21641	9.5	100

54	Constructing desirable ion-conducting channels within ionic liquid-based composite polymer electrolytes by using polymeric ionic liquid-functionalized 2D mesoporous silica nanoplates. <i>Nano Energy</i> , <b>2017</b> , 33, 110-123	17.1	42
53	Flexible Organic-Inorganic Hybrid Solid Electrolytes Formed via Thiol-Acrylate Photopolymerization. <i>Macromolecules</i> , <b>2017</b> , 50, 1970-1980	5.5	72
52	Recent advances in covalent functionalization of carbon nanomaterials with polymers: Strategies and perspectives. <i>Journal of Polymer Science Part A</i> , <b>2017</b> , 55, 622-631	2.5	42
51	Simultaneous improvement in the flame resistance and thermal conductivity of epoxy/Al <sub>2</sub> O <sub>3</sub> composites by incorporating polymeric flame retardant-functionalized graphene. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 13544-13556	13	114
50	Polymeric ionic liquid-functionalized mesoporous silica nanoplates: a new high-performance composite polymer electrolyte for lithium batteries. <i>Electrochimica Acta</i> , <b>2017</b> , 245, 1010-1022	6.7	17
49	Self-Assembled Polymeric Ionic Liquid-Functionalized Cellulose Nano-crystals: Constructing 3D Ion-conducting Channels Within Ionic Liquid-based Composite Polymer Electrolytes. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 11881-11890	4.8	15
48	Improving thermal and flame retardant properties of epoxy resin by functionalized graphene containing phosphorous, nitrogen and silicon elements. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2017</b> , 103, 74-83	8.4	114
47	A promising nanohybrid of silicon carbide nanowires scrolled by graphene oxide sheets with a synergistic effect for poly(propylene carbonate) nanocomposites. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 22361-22371	13	20
46	Noncovalent immobilization of pyrene-terminated hyperbranched triazole-based polymeric ionic liquid onto graphene for highly active and recyclable catalysis of CO <sub>2</sub> /epoxide cycloaddition. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 4173-4181	5.5	9
45	Low-voltage-driven and highly-diffractive holographic polymer dispersed liquid crystals with spherical morphology. <i>RSC Advances</i> , <b>2017</b> , 7, 51847-51857	3.7	6
44	Well-structured holographic polymer dispersed liquid crystals by employing acrylamide and doping ZnS nanoparticles. <i>Materials Chemistry Frontiers</i> , <b>2017</b> , 1, 294-303	7.8	19
43	A simple and controllable graphene-templated approach to synthesise 2D silica-based nanomaterials using water-in-oil microemulsions. <i>Chemical Communications</i> , <b>2016</b> , 52, 575-8	5.8	15
42	Ionic polymer-metal composite actuators obtained from sulfonated poly(ether ether sulfone) ion-exchange membranes. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2016</b> , 81, 13-21	8.4	15
41	Biocompatible reduced graphene oxide sheets with superior water dispersibility stabilized by cellulose nanocrystals and their polyethylene oxide composites. <i>Green Chemistry</i> , <b>2016</b> , 18, 1674-1683	10	60
40	Advanced carbon materials/olivine LiFePO <sub>4</sub> composites cathode for lithium ion batteries. <i>Journal of Power Sources</i> , <b>2016</b> , 318, 93-112	8.9	125
39	High performance composite polymer electrolytes using polymeric ionic liquid-functionalized graphene molecular brushes. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 18064-18073	13	37
38	Living radical polymerization of vinyl acetate mediated by iron(III) acetylacetonate in the presence of a reducing agent. <i>RSC Advances</i> , <b>2015</b> , 5, 96345-96352	3.7	3
37	Microporous polymer electrolyte based on PVDF/PEO star polymer blends for lithium ion batteries. <i>Journal of Membrane Science</i> , <b>2015</b> , 491, 82-89	9.6	134

36	Enhanced ion transport in polymer/ionic liquid electrolytes containing ionic liquid-functionalized nanostructured carbon materials. <i>Carbon</i> , <b>2015</b> , 86, 86-97	10.4	40
35	An effective non-covalent grafting approach to functionalize individually dispersed reduced graphene oxide sheets with high grafting density, solubility and electrical conductivity. <i>Nanoscale</i> , <b>2015</b> , 7, 3548-57	7.7	57
34	Size effect of nickel oxide for lithium ion battery anode. <i>Journal of Power Sources</i> , <b>2014</b> , 253, 27-34	8.9	54
33	Improved anode materials for lithium-ion batteries comprise non-covalently bonded graphene and silicon nanoparticles. <i>Journal of Power Sources</i> , <b>2014</b> , 247, 991-998	8.9	66
32	PANIBEG copolymer modified LiFePO <sub>4</sub> as a cathode material for high-performance lithium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 19315-19323	13	57
31	Synthesis and characterization of thermally cured polytriazole polymers incorporating main or side chain benzoxazine crosslinking moieties. <i>Polymer Chemistry</i> , <b>2014</b> , 5, 2863-2871	4.9	26
30	Iron-catalyzed AGET ATRP of methyl methacrylate using an alcohol as a reducing agent in a polar solvent. <i>Dalton Transactions</i> , <b>2014</b> , 43, 16528-33	4.3	22
29	The enhanced actuation response of an ionic polymer-metal composite actuator based on sulfonated polyphenylsulfone. <i>Polymer Chemistry</i> , <b>2014</b> , 5, 6097-6107	4.9	16
28	High-performance epoxy/silica coated silver nanowire composites as underfill material for electronic packaging. <i>Composites Science and Technology</i> , <b>2014</b> , 105, 80-85	8.6	104
27	Improvement of biofouling resistance on bacterial cellulose membranes. <i>Biochemical Engineering Journal</i> , <b>2013</b> , 78, 138-145	4.2	13
26	Ionic liquid polymer electrolytes. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 2719-2743	13	382
25	Alkali doped polyvinyl alcohol/graphene electrolyte for direct methanol alkaline fuel cells. <i>Journal of Power Sources</i> , <b>2013</b> , 239, 424-432	8.9	121
24	Synthesis and characterization of sulfonated polytriazole-clay proton exchange membrane by in situ polymerization and click reaction for direct methanol fuel cells. <i>Journal of Power Sources</i> , <b>2012</b> , 208, 144-152	8.9	39
23	Bioinspired Photo-Cross-Linked Nanofibers from Uracil-Functionalized Polymers.. <i>ACS Macro Letters</i> , <b>2012</b> , 1, 159-162	6.6	20
22	Versatile Grafting Approaches to Functionalizing Individually Dispersed Graphene Nanosheets Using RAFT Polymerization and Click Chemistry. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 2987-2997	9.6	124
21	Defect-free graphene metal oxide composites: formed by lithium mediated exfoliation of graphite. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 14722		8
20	Water Soluble Polymers as Proton Exchange Membranes for Fuel Cells. <i>Polymers</i> , <b>2012</b> , 4, 913-963	4.5	111
19	Facile synthesis of SnO <sub>2</sub> -embedded carbon nanomaterials via glucose-mediated oxidation of Sn particles. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 10705		10

18	A new graphene-modified protic ionic liquid-based composite membrane for solid polymer electrolytes. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 10448		78
17	Interpenetrating network-forming sulfonated poly(vinyl alcohol) proton exchange membranes for direct methanol fuel cell applications. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 11936-11945	6.7	57
16	Synthesis and characterization of new sulfonated polytriazole proton exchange membrane by click reaction for direct methanol fuel cells (DMFCs). <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 15333-15343	6.7	55
15	Tuning transport properties by manipulating the phase segregation of tetramethyldisiloxane segments in modified polyimide electrolytes. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 3470-3478	8.9	17
14	Sulfonated Polyimide Proton Exchange Membranes with Graphene Oxide show Improved Proton Conductivity, Methanol Crossover Impedance, and Mechanical Properties. <i>Advanced Energy Materials</i> , <b>2011</b> , 1, 1220-1224	21.8	140
13	New proton conducting membranes with high retention of protic ionic liquids. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 2723		20
12	Versatile grafting approaches to star-shaped POSS-containing hybrid polymers using RAFT polymerization and click chemistry. <i>Chemical Communications</i> , <b>2011</b> , 47, 10656-8	5.8	44
11	Effect of morphology of mesoporous silica on characterization of protic ionic liquid-based composite membranes. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 5408-5415	8.9	35
10	A new supramolecular sulfonated polyimide for use in proton exchange membranes for fuel cells. <i>Chemical Communications</i> , <b>2010</b> , 46, 7554-6	5.8	34
9	Preparation and characterization of high-durability zwitterionic crosslinked proton exchange membranes. <i>Journal of Membrane Science</i> , <b>2010</b> , 362, 29-37	9.6	42
8	Polytriazole/clay nanocomposites synthesized using in situ polymerization and click chemistry. <i>Polymer</i> , <b>2010</b> , 51, 430-436	3.9	37
7	The effect of sulfonic acid groups within a polyhedral oligomeric silsesquioxane containing cross-linked proton exchange membrane. <i>Polymer</i> , <b>2010</b> , 51, 84-91	3.9	53
6	Biocomplementary interaction behavior in DNA-like and RNA-like polymers. <i>Journal of Polymer Science Part A</i> , <b>2009</b> , 47, 6388-6395	2.5	33
5	Sulfonated poly(ether ether ketone) membranes crosslinked with sulfonic acid containing benzoxazine monomer as proton exchange membranes. <i>Polymer</i> , <b>2009</b> , 50, 3196-3203	3.9	49
4	A new organic/inorganic electroluminescent material with a silsesquioxane core. <i>Acta Materialia</i> , <b>2009</b> , 57, 1938-1946	8.4	23
3	A simple approach toward low-dielectric polyimide nanocomposites: Blending the polyimide precursor with a fluorinated polyhedral oligomeric silsesquioxane. <i>Journal of Polymer Science Part A</i> , <b>2008</b> , 46, 6296-6304	2.5	47
2	Effect of LiClO <sub>4</sub> on the thermal and morphological properties of organic/inorganic polymer hybrids. <i>Polymer</i> , <b>2008</b> , 49, 3625-3628	3.9	15
1	Synthesis and properties of low-dielectric-constant polyimides with introduced reactive fluorine polyhedral oligomeric silsesquioxanes. <i>Journal of Polymer Science Part A</i> , <b>2006</b> , 44, 5391-5402	2.5	80

