

# Yunsheng Ye

## List of Publications by Year in descending order

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91  
papers

5,451  
citations

61984

43  
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82547

72  
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92  
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92  
docs citations

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times ranked

7003  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ion-selective aramid nanofiber-based Janus separators fabricated by a dry-wet phase inversion approach for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 5317-5327.	10.3	11
2	Efficient thermal management of lithium-sulfur batteries by highly thermally conductive LBL-assembled composite separators. <i>Electrochimica Acta</i> , 2022, 407, 139807.	5.2	5
3	MoS <sub>2</sub> Decorated Silver Nanowire-Reduced Graphene Oxide Aerogel Micro-Particle for Thermally Conductive Polymer Composites with Enhanced Flame Retardancy. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2200026.	3.9	2
4	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> , 2022, 442, 135825.	12.7	11
5	Advances on Thermally Conductive Epoxy-Based Composites as Electronic Packaging Underfill Materials—A Review. <i>Advanced Materials</i> , 2022, 34, e2201023.	21.0	61
6	Layer-by-layer self-assembled covalent triazine framework/electrical conductive polymer functional separator for Li-S battery. <i>Chemical Engineering Journal</i> , 2021, 404, 127044.	12.7	36
7	Highly thermally conductive yet mechanically robust composites with nacre-mimetic structure prepared by evaporation-induced self-assembly approach. <i>Chemical Engineering Journal</i> , 2021, 405, 126865.	12.7	34
8	CTF/MWCNT hybrid multi-functional separator as high-efficiency polysulfide tamer for high-performance Li-S battery. <i>Electrochimica Acta</i> , 2021, 367, 137418.	5.2	18
9	Tough and Flexible, Super Ion-Conductive Electrolyte Membranes for Lithium-Based Secondary Battery Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2008586.	14.9	37
10	Removal of Metal Ions in Phosphoric Acid by Electro-Electrodialysis with Cross-Linked Anion-Exchange Membranes. <i>ACS Omega</i> , 2021, 6, 32417-32430.	3.5	1
11	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> , 2020, 379, 122402.	12.7	120
12	Bio-inspired stem-like composites based on highly aligned SiC nanowires. <i>Chemical Engineering Journal</i> , 2020, 389, 123466.	12.7	16
13	Functional Covalent Triazine Frameworks-Based Quasi-Solid-State Electrolyte Used to Enhance Lithium Metal Battery Safety. <i>Batteries and Supercaps</i> , 2020, 3, 936-945.	4.7	9
14	In-situ shear exfoliation and thermal conductivity of SBS/Graphite nanoplatelet nanocomposites. <i>Composites Part B: Engineering</i> , 2020, 197, 108172.	12.0	12
15	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> , 2019, 2, 1702-1711.	5.1	29
16	Large-scaled covalent triazine framework modified separator as efficient inhibit polysulfide shuttling in Li-S batteries. <i>Chemical Engineering Journal</i> , 2019, 375, 121977.	12.7	48
17	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> , 2019, 7, 7897-7906.	10.3	93
18	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> , 2019, 7, 7644-7653.	10.3	60

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19	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> , 2019, 7, 9110-9119.	10.3	27
20	Enhancing thermal oxidation and fire resistance of reduced graphene oxide by phosphorus and nitrogen co-doping: Mechanism and kinetic analysis. <i>Carbon</i> , 2019, 146, 650-659.	10.3	90
21	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> , 2019, 7, 19787-19798.	6.7	11
22	Comb-shaped anion exchange membrane to enhance phosphoric acid purification by electro-electrodialysis. <i>Journal of Membrane Science</i> , 2019, 573, 64-72.	8.2	20
23	UV-curable boron nitride nanosheet/ionic liquid-based crosslinked composite polymer electrolyte in lithium metal batteries. <i>Journal of Power Sources</i> , 2019, 414, 283-292.	7.8	30
24	Performance and Reliability Improvement under High Current Densities in Black Phosphorus Transistors by Interface Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 1587-1594.	8.0	13
25	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> , 2018, 130, 3655-3659.	2.0	13
26	A flexible, self-healing and highly stretchable polymer electrolyte <i>via</i> quadruple hydrogen bonding for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11725-11733.	10.3	155
27	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> , 2018, 57, 3593-3597.	13.8	77
28	A polysulfone-based anion exchange membrane for phosphoric acid concentration and purification by electro-electrodialysis. <i>Journal of Membrane Science</i> , 2018, 552, 86-94.	8.2	60
29	Superior flame retardancy and smoke suppression of epoxy-based composites with phosphorus/nitrogen co-doped graphene. <i>Journal of Hazardous Materials</i> , 2018, 346, 140-151.	12.4	173
30	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> , 2018, 160, 42-49.	7.8	107
31	Ultralow-Carbon Nanotube-Toughened Epoxy: The Critical Role of a Double-Layer Interface. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 1204-1216.	8.0	42
32	Highly thermally conductive flame retardant epoxy nanocomposites with multifunctional ionic liquid flame retardant-functionalized boron nitride nanosheets. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20500-20512.	10.3	123
33	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> , 2018, 8, 1802430.	19.5	170
34	Scalable Approach to Construct Self-Assembled Graphene-Based Films with An Ordered Structure for Thermal Management. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 41690-41698.	8.0	32
35	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> , 2018, 405, 7-17.	7.8	32
36	Synergetic Improvement in Thermal Conductivity and Flame Retardancy of Epoxy/Silver Nanowires Composites by Incorporating $\alpha$ -Branch-Like Flame-Retardant Functionalized Graphene. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 21628-21641.	8.0	142

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37	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> , 2017, 33, 110-123.	16.0	46
38	Flexible Organic-Inorganic Hybrid Solid Electrolytes Formed via Thiol-Acrylate Photopolymerization. <i>Macromolecules</i> , 2017, 50, 1970-1980.	4.8	89
39	Recent advances in covalent functionalization of carbon nanomaterials with polymers: Strategies and perspectives. <i>Journal of Polymer Science Part A</i> , 2017, 55, 622-631.	2.3	49
40	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> , 2017, 5, 13544-13556.	10.3	148
41	Polymeric ionic liquid-functionalized mesoporous silica nanoplates: a new high-performance composite polymer electrolyte for lithium batteries. <i>Electrochimica Acta</i> , 2017, 245, 1010-1022.	5.2	19
42	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> , 2017, 23, 11881-11890.	3.3	20
43	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> , 2017, 103, 74-83.	7.6	158
44	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> , 2017, 5, 22361-22371.	10.3	25
45	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> , 2017, 7, 4173-4181.	4.1	15
46	Low-voltage-driven and highly-diffractive holographic polymer dispersed liquid crystals with spherical morphology. <i>RSC Advances</i> , 2017, 7, 51847-51857.	3.6	11
47	Well-structured holographic polymer dispersed liquid crystals by employing acrylamide and doping ZnS nanoparticles. <i>Materials Chemistry Frontiers</i> , 2017, 1, 294-303.	5.9	28
48	Advanced carbon materials/olivine LiFePO <sub>4</sub> composites cathode for lithium ion batteries. <i>Journal of Power Sources</i> , 2016, 318, 93-112.	7.8	171
49	A simple and controllable graphene-templated approach to synthesise 2D silica-based nanomaterials using water-in-oil microemulsions. <i>Chemical Communications</i> , 2016, 52, 575-578.	4.1	17
50	Ionic polymer-metal composite actuators obtained from sulfonated poly(ether ether sulfone) ion-exchange membranes. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 81, 13-21.	7.6	19
51	Biocompatible reduced graphene oxide sheets with superior water dispersibility stabilized by cellulose nanocrystals and their polyethylene oxide composites. <i>Green Chemistry</i> , 2016, 18, 1674-1683.	9.0	67
52	Living radical polymerization of vinyl acetate mediated by iron(III) acetylacetonate in the presence of a reducing agent. <i>RSC Advances</i> , 2015, 5, 96345-96352.	3.6	4
53	Microporous polymer electrolyte based on PVDF/PEO star polymer blends for lithium ion batteries. <i>Journal of Membrane Science</i> , 2015, 491, 82-89.	8.2	161
54	Enhanced ion transport in polymer-ionic liquid electrolytes containing ionic liquid-functionalized nanostructured carbon materials. <i>Carbon</i> , 2015, 86, 86-97.	10.3	43

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55	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> , 2015, 7, 3548-3557.	5.6	63
56	High performance composite polymer electrolytes using polymeric ionic liquid-functionalized graphene molecular brushes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 18064-18073.	10.3	50
57	High-performance epoxy/silica coated silver nanowire composites as underfill material for electronic packaging. <i>Composites Science and Technology</i> , 2014, 105, 80-85.	7.8	146
58	Size effect of nickel oxide for lithium ion battery anode. <i>Journal of Power Sources</i> , 2014, 253, 27-34.	7.8	65
59	Improved anode materials for lithium-ion batteries comprise non-covalently bonded graphene and silicon nanoparticles. <i>Journal of Power Sources</i> , 2014, 247, 991-998.	7.8	68
60	PANI-PEG copolymer modified LiFePO <sub>4</sub> as a cathode material for high-performance lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 19315-19323.	10.3	68
61	Synthesis and characterization of thermally cured polytriazole polymers incorporating main or side chain benzoxazine crosslinking moieties. <i>Polymer Chemistry</i> , 2014, 5, 2863-2871.	3.9	26
62	Iron-catalyzed AGET ATRP of methyl methacrylate using an alcohol as a reducing agent in a polar solvent. <i>Dalton Transactions</i> , 2014, 43, 16528-16533.	3.3	25
63	The enhanced actuation response of an ionic polymer-metal composite actuator based on sulfonated polyphenylsulfone. <i>Polymer Chemistry</i> , 2014, 5, 6097-6107.	3.9	22
64	Improvement of biofouling resistance on bacterial cellulose membranes. <i>Biochemical Engineering Journal</i> , 2013, 78, 138-145.	3.6	15
65	Ionic liquid polymer electrolytes. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2719-2743.	10.3	441
66	Alkali doped polyvinyl alcohol/graphene electrolyte for direct methanol alkaline fuel cells. <i>Journal of Power Sources</i> , 2013, 239, 424-432.	7.8	139
67	Water Soluble Polymers as Proton Exchange Membranes for Fuel Cells. <i>Polymers</i> , 2012, 4, 913-963.	4.5	143
68	Bioinspired Photo-Cross-Linked Nanofibers from Uracil-Functionalized Polymers. <i>ACS Macro Letters</i> , 2012, 1, 159-162.	4.8	22
69	Versatile Grafting Approaches to Functionalizing Individually Dispersed Graphene Nanosheets Using RAFT Polymerization and Click Chemistry. <i>Chemistry of Materials</i> , 2012, 24, 2987-2997.	6.7	139
70	Defect-free graphene metal oxide composites: formed by lithium mediated exfoliation of graphite. <i>Journal of Materials Chemistry</i> , 2012, 22, 14722.	6.7	8
71	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> , 2012, 208, 144-152.	7.8	43
72	New proton conducting membranes with high retention of protic ionic liquids. <i>Journal of Materials Chemistry</i> , 2011, 21, 2723.	6.7	20

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73	Versatile grafting approaches to star-shaped POSS-containing hybrid polymers using RAFT polymerization and click chemistry. <i>Chemical Communications</i> , 2011, 47, 10656.	4.1	48
74	Facile synthesis of SnO <sub>2</sub> -embedded carbon nanomaterials via glucose-mediated oxidation of Sn particles. <i>Journal of Materials Chemistry</i> , 2011, 21, 10705.	6.7	11
75	A new graphene-modified protic ionic liquid-based composite membrane for solid polymer electrolytes. <i>Journal of Materials Chemistry</i> , 2011, 21, 10448.	6.7	88
76	Interpenetrating network-forming sulfonated poly(vinyl alcohol) proton exchange membranes for direct methanol fuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 11936-11945.	7.1	65
77	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> , 2011, 36, 15333-15343.	7.1	62
78	Tuning transport properties by manipulating the phase segregation of tetramethyldisiloxane segments in modified polyimide electrolytes. <i>Journal of Power Sources</i> , 2011, 196, 3470-3478.	7.8	17
79	Sulfonated Polyimide Proton Exchange Membranes with Graphene Oxide show Improved Proton Conductivity, Methanol Crossover Impedance, and Mechanical Properties. <i>Advanced Energy Materials</i> , 2011, 1, 1220-1224.	19.5	164
80	Effect of morphology of mesoporous silica on characterization of protic ionic liquid-based composite membranes. <i>Journal of Power Sources</i> , 2011, 196, 5408-5415.	7.8	38
81	Preparation and characterization of high-durability zwitterionic crosslinked proton exchange membranes. <i>Journal of Membrane Science</i> , 2010, 362, 29-37.	8.2	44
82	Polytriazole/clay nanocomposites synthesized using in situ polymerization and click chemistry. <i>Polymer</i> , 2010, 51, 430-436.	3.8	37
83	The effect of sulfonic acid groups within a polyhedral oligomeric silsesquioxane containing cross-linked proton exchange membrane. <i>Polymer</i> , 2010, 51, 84-91.	3.8	55
84	Polyimide-Based Electrolyte Modified with Siloxane Segments for Proton Transportation. <i>ECS Transactions</i> , 2010, 33, 845-853.	0.5	0
85	A new supramolecular sulfonated polyimide for use in proton exchange membranes for fuel cells. <i>Chemical Communications</i> , 2010, 46, 7554.	4.1	38
86	Biocomplementary interaction behavior in DNA-like and RNA-like polymers. <i>Journal of Polymer Science Part A</i> , 2009, 47, 6388-6395.	2.3	36
87	Sulfonated poly(ether ether ketone) membranes crosslinked with sulfonic acid containing benzoxazine monomer as proton exchange membranes. <i>Polymer</i> , 2009, 50, 3196-3203.	3.8	57
88	A new organic/inorganic electroluminescent material with a silsesquioxane core. <i>Acta Materialia</i> , 2009, 57, 1938-1946.	7.9	24
89	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> , 2008, 46, 6296-6304.	2.3	53
90	Effect of LiClO <sub>4</sub> on the thermal and morphological properties of organic/inorganic polymer hybrids. <i>Polymer</i> , 2008, 49, 3625-3628.	3.8	15

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91	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