

# Jennifer L Schaefer

## List of Publications by Year in descending order

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41  
papers

2,449  
citations

331259

21  
h-index

301761

39  
g-index

43  
all docs

43  
docs citations

43  
times ranked

3479  
citing authors

#	ARTICLE	IF	CITATIONS
1	Suppression of Lithium Dendrite Growth Using Cross-Linked Polyethylene/Poly(ethylene oxide) Electrolytes: A New Approach for Practical Lithium-Metal Polymer Batteries. <i>Journal of the American Chemical Society</i> , 2014, 136, 7395-7402.	6.6	746
2	25th Anniversary Article: Polymer-Particle Composites: Phase Stability and Applications in Electrochemical Energy Storage. <i>Advanced Materials</i> , 2014, 26, 201-234.	11.1	244
3	High Lithium Transference Number Electrolytes via Creation of 3-Dimensional, Charged, Nanoporous Networks from Dense Functionalized Nanoparticle Composites. <i>Chemistry of Materials</i> , 2013, 25, 834-839.	3.2	180
4	Nanoscale Organic Hybrid Electrolytes. <i>Advanced Materials</i> , 2010, 22, 3677-3680.	11.1	153
5	Ionic liquid-nanoparticle hybrid electrolytes. <i>Journal of Materials Chemistry</i> , 2012, 22, 4066.	6.7	131
6	Elemental Sulfur and Molybdenum Disulfide Composites for Li-S Batteries with Long Cycle Life and High-Rate Capability. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 13437-13448.	4.0	108
7	Ionic Liquid-Tethered Nanoparticle Suspensions: A Novel Class of Ionogels. <i>Chemistry of Materials</i> , 2012, 24, 1386-1392.	3.2	106
8	Electrolytes for high-energy lithium batteries. <i>Applied Nanoscience (Switzerland)</i> , 2012, 2, 91-109.	1.6	84
9	Nanoporous hybrid electrolytes. <i>Journal of Materials Chemistry</i> , 2011, 21, 10094.	6.7	78
10	Non-solvating, side-chain polymer electrolytes as lithium single-ion conductors: synthesis and ion transport characterization. <i>Polymer Chemistry</i> , 2020, 11, 461-471.	1.9	56
11	Review-Polymer Electrolytes for Magnesium Batteries: Forging Away from Analogs of Lithium Polymer Electrolytes and Towards the Rechargeable Magnesium Metal Polymer Battery. <i>Journal of the Electrochemical Society</i> , 2020, 167, 070545.	1.3	51
12	Ion Transport in Solvent-Free, Crosslinked, Single-Ion Conducting Polymer Electrolytes for Post-Lithium Ion Batteries. <i>Batteries</i> , 2018, 4, 28.	2.1	40
13	Enhanced Li <sup>+</sup> Conduction within Single-Ion Conducting Polymer Gel Electrolytes via Reduced Cation-Polymer Interaction. , 2020, 2, 272-279.		39
14	Cross-Linked Ionomer Gel Separators for Polysulfide Shuttle Mitigation in Magnesium-Sulfur Batteries: Elucidation of Structure-Property Relationships. <i>Macromolecules</i> , 2018, 51, 8629-8636.	2.2	38
15	Electrochemical Properties and Speciation in Mg(HMDS) <sub>2</sub> -Based Electrolytes for Magnesium Batteries as a Function of Ethereal Solvent Type and Temperature. <i>Langmuir</i> , 2017, 33, 9426-9433.	1.6	37
16	Review-Electrolyte and Electrode Designs for Enhanced Ion Transport Properties to Enable High Performance Lithium Batteries. <i>Journal of the Electrochemical Society</i> , 2021, 168, 090501.	1.3	33
17	Polymer-Ceramic Composite Electrolytes for Lithium Batteries: A Comparison between the Single-Ion-Conducting Polymer Matrix and Its Counterpart. <i>ACS Applied Energy Materials</i> , 2020, 3, 8871-8881.	2.5	30
18	Dynamics and Rheology of Soft Colloidal Glasses. <i>ACS Macro Letters</i> , 2015, 4, 119-123.	2.3	29

#	ARTICLE	IF	CITATIONS
19	Self-discharge of magnesium-sulfur batteries leads to active material loss and poor shelf life. <i>Energy and Environmental Science</i> , 2021, 14, 890-899.	15.6	29
20	Structural origins of enhanced capacity retention in novel copolymerized sulfur-based composite cathodes for high-energy density Li-S batteries. <i>MRS Communications</i> , 2015, 5, 353-364.	0.8	26
21	Application of Single-Ion Conducting Gel Polymer Electrolytes in Magnesium Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 6355-6363.	2.5	24
22	Conditioning-Free Electrolytes for Magnesium Batteries Using Sulfone-Ether Mixtures with Increased Thermal Stability. <i>Chemistry of Materials</i> , 2018, 30, 3971-3974.	3.2	22
23	The Influence of Interfacial Chemistry on Magnesium Electrodeposition in Non-nucleophilic Electrolytes Using Sulfone-Ether Mixtures. <i>Frontiers in Chemistry</i> , 2019, 7, 194.	1.8	22
24	Comparison of Single-Ion Conducting Polymer Gel Electrolytes for Sodium, Potassium, and Calcium Batteries: Influence of Polymer Chemistry, Cation Identity, Charge Density, and Solvent on Conductivity. <i>Batteries</i> , 2020, 6, 11.	2.1	22
25	Investigation of the Effects of Copper Nanoparticles on Magnesium-Sulfur Battery Performance: How Practical Is Metallic Copper Addition?. <i>ACS Applied Energy Materials</i> , 2019, 2, 6800-6807.	2.5	20
26	Electrochemical Immunosensing of Interleukin-6 in Human Cerebrospinal Fluid and Human Serum as an Early Biomarker for Traumatic Brain Injury. <i>ACS Measurement Science Au</i> , 2021, 1, 65-73.	1.9	17
27	Gel composite electrolyte – an effective way to utilize ceramic fillers in lithium batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6555-6566.	5.2	14
28	Ion Coordination and Transport in Magnesium Polymer Electrolytes Based on Polyester-co-Polycarbonate. <i>Energy Material Advances</i> , 2021, 2021, .	4.7	12
29	Editors' Choice Communication – Comparison of Nanoscale Focused Ion Beam and Electrochemical Lithiation in $\text{Li}^2\text{-Sn}$ Microspheres. <i>Journal of the Electrochemical Society</i> , 2016, 163, A1010-A1012.	1.3	11
30	Resilient hollow fiber nanofiltration membranes fabricated from crosslinkable phase-separated copolymers. <i>Molecular Systems Design and Engineering</i> , 2020, 5, 943-953.	1.7	8
31	Porous Polymer Gel Electrolytes Influence Lithium Transference Number and Cycling in Lithium-Ion Batteries. <i>Electronic Materials</i> , 2021, 2, 154-173.	0.9	8
32	Dual Cation Exchanged Poly(ionic liquid)s as Magnesium Conducting Electrolytes. <i>ACS Applied Polymer Materials</i> , 2019, 1, 2907-2913.	2.0	7
33	Tunable mesoporous films from copolymers with degradable side chains as membrane precursors. <i>Journal of Membrane Science</i> , 2018, 567, 104-114.	4.1	6
34	Stability and Disproportionation of Magnesium Polysulfides and the Effects on the Mg-Polysulfide Flow Battery. <i>Journal of the Electrochemical Society</i> , 2021, 168, 110516.	1.3	6
35	Polymer Morphological Effect on Gas Transport within Triptycene-Based Polysulfones. <i>ACS Applied Polymer Materials</i> , 2022, 4, 2987-2998.	2.0	4
36	Influence of Inorganic Glass Ceramic Particles on Ion States and Ion Transport in Composite Single-Ion Conducting Gel Polymer Electrolytes with Varying Chain Chemistry. <i>ACS Applied Polymer Materials</i> , 2022, 4, 1095-1109.	2.0	2

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37	Coupling of 3D Porous Hosts for Li Metal Battery Anodes with Viscous Polymer Electrolytes. Journal of the Electrochemical Society, 2022, 169, 010511.	1.3	2
38	Chemistry-Performance Relationships of Polymer Gel-Electrolytes for Mg-S and Li-S Batteries: Influence of Network Cation Solvation Capacity on Polymer-Polysulfide Interactions. ChemPhysChem, 2022, 23, .	1.0	2
39	Toward High-Energy Batteries: High-Voltage Stability via Superstructure Control. Joule, 2020, 4, 296-298.	11.7	1
40	Phase Behavior and Ionic Conductivity of Blended, Ion-Condensed Electrolytes with Ordered Morphologies. Applied Sciences (Switzerland), 2022, 12, 6529.	1.3	1
41	Tunable Electrolytes for Studies On Dendrite Growth in Lithium Metal Batteries. ECS Meeting Abstracts, 2013, .	0.0	0