

# Emily Hitz

## List of Publications by Year in descending order

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39  
papers

8,559  
citations

100601

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times ranked

11102  
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasmonic Wood for High-Efficiency Solar Steam Generation. <i>Advanced Energy Materials</i> , 2018, 8, 1701028.	10.2	701
2	Protected Lithium-Metal Anodes in Batteries: From Liquid to Solid. <i>Advanced Materials</i> , 2017, 29, 1701169.	11.1	596
3	Highly Flexible and Efficient Solar Steam Generation Device. <i>Advanced Materials</i> , 2017, 29, 1701756.	11.1	584
4	Conformal, Nanoscale ZnO Surface Modification of Garnet-Based Solid-State Electrolyte for Lithium Metal Anodes. <i>Nano Letters</i> , 2017, 17, 565-571.	4.5	556
5	3D-Printed, All-in-One Evaporator for High-Efficiency Solar Steam Generation under 1 Sun Illumination. <i>Advanced Materials</i> , 2017, 29, 1700981.	11.1	511
6	Ultrafine Silver Nanoparticles for Seeded Lithium Deposition toward Stable Lithium Metal Anode. <i>Advanced Materials</i> , 2017, 29, 1702714.	11.1	510
7	Nature-inspired salt resistant bimodal porous solar evaporator for efficient and stable water desalination. <i>Energy and Environmental Science</i> , 2019, 12, 1558-1567.	15.6	482
8	Scalable and Highly Efficient Mesoporous Wood-Based Solar Steam Generation Device: Localized Heat, Rapid Water Transport. <i>Advanced Functional Materials</i> , 2018, 28, 1707134.	7.8	366
9	Wood-Based Nanotechnologies toward Sustainability. <i>Advanced Materials</i> , 2018, 30, 1703453.	11.1	359
10	Lightweight, Mesoporous, and Highly Absorptive All-Nanofiber Aerogel for Efficient Solar Steam Generation. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 1104-1112.	4.0	327
11	Ultra-Thick, Low-Tortuosity, and Mesoporous Wood Carbon Anode for High-Performance Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1600377.	10.2	257
12	High-Performance Solar Steam Device with Layered Channels: Artificial Tree with a Reversed Design. <i>Advanced Energy Materials</i> , 2018, 8, 1701616.	10.2	255
13	Encapsulation of Metallic Na in an Electrically Conductive Host with Porous Channels as a Highly Stable Na Metal Anode. <i>Nano Letters</i> , 2017, 17, 3792-3797.	4.5	243
14	A carbon-based 3D current collector with surface protection for Li metal anode. <i>Nano Research</i> , 2017, 10, 1356-1365.	5.8	200
15	Flexible, Scalable, and Highly Conductive Garnet-Polymer Solid Electrolyte Templated by Bacterial Cellulose. <i>Advanced Energy Materials</i> , 2018, 8, 1703474.	10.2	189
16	Reduced Graphene Oxide Films with Ultrahigh Conductivity as Li-Ion Battery Current Collectors. <i>Nano Letters</i> , 2016, 16, 3616-3623.	4.5	187
17	Super-Strong, Super-Stiff Macrofibers with Aligned, Long Bacterial Cellulose Nanofibers. <i>Advanced Materials</i> , 2017, 29, 1702498.	11.1	185
18	Scalable aesthetic transparent wood for energy efficient buildings. <i>Nature Communications</i> , 2020, 11, 3836.	5.8	180

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19	Three-Dimensional Printable High-Temperature and High-Rate Heaters. ACS Nano, 2016, 10, 5272-5279.	7.3	161
20	Solution Processed Boron Nitride Nanosheets: Synthesis, Assemblies and Emerging Applications. Advanced Functional Materials, 2017, 27, 1701450.	7.8	160
21	A nanofluidic ion regulation membrane with aligned cellulose nanofibers. Science Advances, 2019, 5, eaau4238.	4.7	148
22	Carbonized-leaf Membrane with Anisotropic Surfaces for Sodium-ion Battery. ACS Applied Materials & Interfaces, 2016, 8, 2204-2210.	4.0	146
23	Transparent, Anisotropic Biofilm with Aligned Bacterial Cellulose Nanofibers. Advanced Functional Materials, 2018, 28, 1707491.	7.8	142
24	Superflexible Wood. ACS Applied Materials & Interfaces, 2017, 9, 23520-23527.	4.0	141
25	From Wood to Textiles: Top-Down Assembly of Aligned Cellulose Nanofibers. Advanced Materials, 2018, 30, e1801347.	11.1	121
26	Light management in plastic-paper hybrid substrate towards high-performance optoelectronics. Energy and Environmental Science, 2016, 9, 2278-2285.	15.6	103
27	Highly Anisotropic Conductors. Advanced Materials, 2017, 29, 1703331.	11.1	80
28	Isotropic Paper Directly from Anisotropic Wood: Top-Down Green Transparent Substrate Toward Biodegradable Electronics. ACS Applied Materials & Interfaces, 2018, 10, 28566-28571.	4.0	79
29	Reversible Short-Circuit Behaviors in Garnet-Based Solid-State Batteries. Advanced Energy Materials, 2020, 10, 2000702.	10.2	77
30	Garnet/polymer hybrid ion-conducting protective layer for stable lithium metal anode. Nano Research, 2017, 10, 4256-4265.	5.8	76
31	High-Performance, Scalable Wood-Based Filtration Device with a Reversed-Tree Design. Chemistry of Materials, 2020, 32, 1887-1895.	3.2	65
32	Electrochemical Intercalation of Lithium Ions into NbSe <sub>2</sub> Nanosheets. ACS Applied Materials & Interfaces, 2016, 8, 11390-11395.	4.0	56
33	A Solution-Processed High-Temperature, Flexible, Thin-Film Actuator. Advanced Materials, 2016, 28, 8618-8624.	11.1	53
34	An Energy-Efficient, Wood-Derived Structural Material Enabled by Pore Structure Engineering towards Building Efficiency. Small Methods, 2020, 4, 1900747.	4.6	53
35	Epitaxial Welding of Carbon Nanotube Networks for Aqueous Battery Current Collectors. ACS Nano, 2018, 12, 5266-5273.	7.3	51
36	High temperature thermal management with boron nitride nanosheets. Nanoscale, 2018, 10, 167-173.	2.8	48

#	ARTICLE	IF	CITATIONS
37	All-Component Transient Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1502496.	10.2	47
38	High-Temperature Atomic Mixing toward Well-Dispersed Bimetallic Electrocatalysts. <i>Advanced Energy Materials</i> , 2018, 8, 1800466.	10.2	43
39	Strong and Superhydrophobic Wood with Aligned Cellulose Nanofibers as a Waterproof Structural Material <sup>â€</sup> . <i>Chinese Journal of Chemistry</i> , 2020, 38, 823-829.	2.6	21