Emily Hitz

List of Publications by Citations

39 papers	5,947 citations	34 h-index	39 g-index
39 ext. papers	7,261 ext. citations	17.4 avg, IF	5.82 L-index

#	Paper	IF	Citations
39	Plasmonic Wood for High-Efficiency Solar Steam Generation. *Advanced Energy Materials*, **2018**, 8, 1701028	21.8	472
38	Protected Lithium-Metal Anodes in Batteries: From Liquid to Solid. *Advanced Materials*, **2017**, 29, 1701169	24	452
37	Highly Flexible and Efficient Solar Steam Generation Device. *Advanced Materials*, **2017**, 29, 1701756	24	424
36	Conformal, Nanoscale ZnO Surface Modification of Garnet-Based Solid-State Electrolyte for Lithium Metal Anodes. *Nano Letters*, **2017**, 17, 565-571	11.5	416
35	3D-Printed, All-in-One Evaporator for High-Efficiency Solar Steam Generation under 1 Sun Illumination. *Advanced Materials*, **2017**, 29, 1700981	24	387
34	Ultrafine Silver Nanoparticles for Seeded Lithium Deposition toward Stable Lithium Metal Anode. *Advanced Materials*, **2017**, 29, 1702714	24	374
33	Nature-inspired salt resistant bimodal porous solar evaporator for efficient and stable water desalination. *Energy and Environmental Science*, **2019**, 12, 1558-1567	35.4	269
32	Scalable and Highly Efficient Mesoporous Wood-Based Solar Steam Generation Device: Localized Heat, Rapid Water Transport. *Advanced Functional Materials*, **2018**, 28, 1707134	15.6	254
31	Wood-Based Nanotechnologies toward Sustainability. *Advanced Materials*, **2018**, 30, 1703453	24	229
30	Lightweight, Mesoporous, and Highly Absorptive All-Nanofiber Aerogel for Efficient Solar Steam Generation. *ACS Applied Materials & Interfaces*, **2018**, 10, 1104-1112	9.5	227
29	Ultra-Thick, Low-Tortuosity, and Mesoporous Wood Carbon Anode for High-Performance Sodium-Ion Batteries. *Advanced Energy Materials*, **2016**, 6, 1600377	21.8	205
28	Encapsulation of Metallic Na in an Electrically Conductive Host with Porous Channels as a Highly Stable Na Metal Anode. *Nano Letters*, **2017**, 17, 3792-3797	11.5	191
27	High-Performance Solar Steam Device with Layered Channels: Artificial Tree with a Reversed Design. *Advanced Energy Materials*, **2018**, 8, 1701616	21.8	174
26	Reduced Graphene Oxide Films with Ultrahigh Conductivity as Li-Ion Battery Current Collectors. *Nano Letters*, **2016**, 16, 3616-23	11.5	146
25	A carbon-based 3D current collector with surface protection for Li metal anode. *Nano Research*, **2017**, 10, 1356-1365	10	139
24	Three-Dimensional Printable High-Temperature and High-Rate Heaters. *ACS Nano*, **2016**, 10, 5272-9	16.7	137
23	Super-Strong, Super-Stiff Macrofibers with Aligned, Long Bacterial Cellulose Nanofibers. *Advanced Materials*, **2017**, 29, 1702498	24	127

22	Carbonized-leaf Membrane with Anisotropic Surfaces for Sodium-ion Battery. *ACS Applied Materials & Interfaces*, **2016**, 8, 2204-10	9.5	124
21	Flexible, Scalable, and Highly Conductive Garnet-Polymer Solid Electrolyte Templated by Bacterial Cellulose. *Advanced Energy Materials*, **2018**, 8, 1703474	21.8	117
20	Solution Processed Boron Nitride Nanosheets: Synthesis, Assemblies and Emerging Applications. *Advanced Functional Materials*, **2017**, 27, 1701450	15.6	109
19	Transparent, Anisotropic Biofilm with Aligned Bacterial Cellulose Nanofibers. *Advanced Functional Materials*, **2018**, 28, 1707491	15.6	96
18	Superflexible Wood. *ACS Applied Materials & Interfaces*, **2017**, 9, 23520-23527	9.5	88
17	Light management in plastic–paper hybrid substrate towards high-performance optoelectronics. *Energy and Environmental Science*, **2016**, 9, 2278-2285	35.4	85
16	A nanofluidic ion regulation membrane with aligned cellulose nanofibers. *Science Advances*, **2019**, 5, eaau4238	14	81
15	From Wood to Textiles: Top-Down Assembly of Aligned Cellulose Nanofibers. *Advanced Materials*, **2018**, 30, e1801347	24	75
14	Scalable aesthetic transparent wood for energy efficient buildings. *Nature Communications*, **2020**, 11, 3836	17.4	71
13	Garnet/polymer hybrid ion-conducting protective layer for stable lithium metal anode. *Nano Research*, **2017**, 10, 4256-4265	10	61
12	Highly Anisotropic Conductors. *Advanced Materials*, **2017**, 29, 1703331	24	57
11	Isotropic Paper Directly from Anisotropic Wood: Top-Down Green Transparent Substrate Toward Biodegradable Electronics. *ACS Applied Materials & Interfaces*, **2018**, 10, 28566-28571	9.5	49
10	A Solution-Processed High-Temperature, Flexible, Thin-Film Actuator. *Advanced Materials*, **2016**, 28, 8618-8624	21	42
9	Electrochemical Intercalation of Lithium Ions into NbSe2 Nanosheets. *ACS Applied Materials & Interfaces*, **2016**, 8, 11390-5	9.5	40
8	All-Component Transient Lithium-Ion Batteries. *Advanced Energy Materials*, **2016**, 6, 1502496	21.8	37
7	Epitaxial Welding of Carbon Nanotube Networks for Aqueous Battery Current Collectors. *ACS Nano* , **2018**, 12, 5266-5273	16.7	36
6	High temperature thermal management with boron nitride nanosheets. *Nanoscale*, **2017**, 10, 167-173	7.7	35
5	Reversible Short-Circuit Behaviors in Garnet-Based Solid-State Batteries. *Advanced Energy Materials* , **2020**, 10, 2000702	21.8	31

4	High-Performance, Scalable Wood-Based Filtration Device with a Reversed-Tree Design. *Chemistry of Materials*, **2020**, 32, 1887-1895	9.6	29
3	An Energy-Efficient, Wood-Derived Structural Material Enabled by Pore Structure Engineering towards Building Efficiency. *Small Methods*, **2020**, 4, 1900747	12.8	28
2	High-Temperature Atomic Mixing toward Well-Dispersed Bimetallic Electrocatalysts. *Advanced Energy Materials*, **2018**, 8, 1800466	21.8	24
1	Strong and Superhydrophobic Wood with Aligned Cellulose Nanofibers as a Waterproof Structural Material *Chinese Journal of Chemistry*, **2020**, 38, 823-829	4.9	9