

Emily Hitz

List of Publications by Year in descending order

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39
papers

8,559
citations

87723

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h-index

301761

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docs citations

39
times ranked

9563
citing authors

#	ARTICLE	IF	CITATIONS
1	An Energy-efficient, Wood-derived Structural Material Enabled by Pore Structure Engineering towards Building Efficiency. <i>Small Methods</i> , 2020, 4, 1900747.	4.6	53
2	Scalable aesthetic transparent wood for energy efficient buildings. <i>Nature Communications</i> , 2020, 11, 3836.	5.8	180
3	Reversible Short-circuit Behaviors in Garnet-based Solid-state Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2000702.	10.2	77
4	Strong and Superhydrophobic Wood with Aligned Cellulose Nanofibers as a Waterproof Structural Material. <i>Chinese Journal of Chemistry</i> , 2020, 38, 823-829.	2.6	21
5	High-Performance, Scalable Wood-Based Filtration Device with a Reversed-Tree Design. <i>Chemistry of Materials</i> , 2020, 32, 1887-1895.	3.2	65
6	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
7	A nanofluidic ion regulation membrane with aligned cellulose nanofibers. <i>Science Advances</i> , 2019, 5, eaau4238.	4.7	148
8	Transparent, Anisotropic Biofilm with Aligned Bacterial Cellulose Nanofibers. <i>Advanced Functional Materials</i> , 2018, 28, 1707491.	7.8	142
9	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
10	Flexible, Scalable, and Highly Conductive Garnet-polymer Solid Electrolyte Templated by Bacterial Cellulose. <i>Advanced Energy Materials</i> , 2018, 8, 1703474.	10.2	189
11	Plasmonic Wood for High-efficiency Solar Steam Generation. <i>Advanced Energy Materials</i> , 2018, 8, 1701028.	10.2	701
12	Lightweight, Mesoporous, and Highly Absorptive All-Nanofiber Aerogel for Efficient Solar Steam Generation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1104-1112.	4.0	327
13	Wood-based Nanotechnologies toward Sustainability. <i>Advanced Materials</i> , 2018, 30, 1703453.	11.1	359
14	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
15	High temperature thermal management with boron nitride nanosheets. <i>Nanoscale</i> , 2018, 10, 167-173.	2.8	48
16	Epitaxial Welding of Carbon Nanotube Networks for Aqueous Battery Current Collectors. <i>ACS Nano</i> , 2018, 12, 5266-5273.	7.3	51
17	Isotropic Paper Directly from Anisotropic Wood: Top-Down Green Transparent Substrate Toward Biodegradable Electronics. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 28566-28571.	4.0	79
18	High-temperature Atomic Mixing toward Well-dispersed Bimetallic Electrocatalysts. <i>Advanced Energy Materials</i> , 2018, 8, 1800466.	10.2	43

#	ARTICLE	IF	CITATIONS
19	From Wood to Textiles: Top-Down Assembly of Aligned Cellulose Nanofibers. <i>Advanced Materials</i> , 2018, 30, e1801347.	11.1	121
20	A carbon-based 3D current collector with surface protection for Li metal anode. <i>Nano Research</i> , 2017, 10, 1356-1365.	5.8	200
21	Garnet/polymer hybrid ion-conducting protective layer for stable lithium metal anode. <i>Nano Research</i> , 2017, 10, 4256-4265.	5.8	76
22	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
23	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
24	Solution Processed Boron Nitride Nanosheets: Synthesis, Assemblies and Emerging Applications. <i>Advanced Functional Materials</i> , 2017, 27, 1701450.	7.8	160
25	Highly Flexible and Efficient Solar Steam Generation Device. <i>Advanced Materials</i> , 2017, 29, 1701756.	11.1	584
26	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
27	Highly Anisotropic Conductors. <i>Advanced Materials</i> , 2017, 29, 1703331.	11.1	80
28	Super-Strong, Super-Stiff Macrofibers with Aligned, Long Bacterial Cellulose Nanofibers. <i>Advanced Materials</i> , 2017, 29, 1702498.	11.1	185
29	Protected Lithium-Metal Anodes in Batteries: From Liquid to Solid. <i>Advanced Materials</i> , 2017, 29, 1701169.	11.1	596
30	Ultrafine Silver Nanoparticles for Seeded Lithium Deposition toward Stable Lithium Metal Anode. <i>Advanced Materials</i> , 2017, 29, 1702714.	11.1	510
31	Superflexible Wood. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 23520-23527.	4.0	141
32	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
33	All-Component Transient Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1502496.	10.2	47
34	Light management in plastic-paper hybrid substrate towards high-performance optoelectronics. <i>Energy and Environmental Science</i> , 2016, 9, 2278-2285.	15.6	103
35	Reduced Graphene Oxide Films with Ultrahigh Conductivity as Li-Ion Battery Current Collectors. <i>Nano Letters</i> , 2016, 16, 3616-3623.	4.5	187
36	Three-Dimensional Printable High-Temperature and High-Rate Heaters. <i>ACS Nano</i> , 2016, 10, 5272-5279.	7.3	161

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37	Electrochemical Intercalation of Lithium Ions into NbSe ₂ Nanosheets. ACS Applied Materials & Interfaces, 2016, 8, 11390-11395.	4.0	56
38	A Solution-Processed High-Temperature, Flexible, Thin-Film Actuator. Advanced Materials, 2016, 28, 8618-8624.	11.1	53
39	Carbonized-leaf Membrane with Anisotropic Surfaces for Sodium-ion Battery. ACS Applied Materials & Interfaces, 2016, 8, 2204-2210.	4.0	146