

# Jiaqi Dai

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

103  
papers

13,767  
citations

58  
h-index

104  
g-index

104  
ext. papers

16,967  
ext. citations

18.6  
avg, IF

6.5  
L-index

#	Paper	IF	Citations
103	Negating interfacial impedance in garnet-based solid-state Li metal batteries. <i>Nature Materials</i> , <b>2017</b> , 16, 572-579	27	1192
102	Flexible, solid-state, ion-conducting membrane with 3D garnet nanofiber networks for lithium batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 7094-9	11.5	593
101	Processing bulk natural wood into a high-performance structural material. <i>Nature</i> , <b>2018</b> , 554, 224-228	50.4	558
100	Toward garnet electrolyte-based Li metal batteries: An ultrathin, highly effective, artificial solid-state electrolyte/metallic Li interface. <i>Science Advances</i> , <b>2017</b> , 3, e1601659	14.3	482
99	Plasmonic Wood for High-Efficiency Solar Steam Generation. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1701028	11.8	472
98	All-wood, low tortuosity, aqueous, biodegradable supercapacitors with ultra-high capacitance. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 538-545	35.4	451
97	Graphene Oxide-Based Electrode Inks for 3D-Printed Lithium-Ion Batteries. <i>Advanced Materials</i> , <b>2016</b> , 28, 2587-94	24	443
96	Transition from Superlithiophobicity to Superlithiophilicity of Garnet Solid-State Electrolyte. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 12258-62	16.4	424
95	A radiative cooling structural material. <i>Science</i> , <b>2019</b> , 364, 760-763	33.3	419
94	Conformal, Nanoscale ZnO Surface Modification of Garnet-Based Solid-State Electrolyte for Lithium Metal Anodes. <i>Nano Letters</i> , <b>2017</b> , 17, 565-571	11.5	416
93	Three-dimensional bilayer garnet solid electrolyte based high energy density lithium metal-sulfur batteries. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 1568-1575	35.4	368
92	Tree-Inspired Design for High-Efficiency Water Extraction. <i>Advanced Materials</i> , <b>2017</b> , 29, 1704107	24	346
91	Highly Anisotropic, Highly Transparent Wood Composites. <i>Advanced Materials</i> , <b>2016</b> , 28, 5181-7	24	342
90	High-capacity, low-tortuosity, and channel-guided lithium metal anode. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 3584-3589	11.5	331
89	Progress in 3D Printing of Carbon Materials for Energy-Related Applications. <i>Advanced Materials</i> , <b>2017</b> , 29, 1603486	24	291
88	Scalable and Highly Efficient Mesoporous Wood-Based Solar Steam Generation Device: Localized Heat, Rapid Water Transport. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1707134	15.6	254
87	Tuning two-dimensional nanomaterials by intercalation: materials, properties and applications. <i>Chemical Society Reviews</i> , <b>2016</b> , 45, 6742-6765	58.5	243

86	Wood-Based Nanotechnologies toward Sustainability. <i>Advanced Materials</i> , <b>2018</b> , 30, 1703453	24	229
85	Ultra-Thick, Low-Tortuosity, and Mesoporous Wood Carbon Anode for High-Performance Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1600377	21.8	205
84	Anisotropic, lightweight, strong, and super thermally insulating nanowood with naturally aligned nanocellulose. <i>Science Advances</i> , <b>2018</b> , 4, eaar3724	14.3	204
83	Encapsulation of Metallic Na in an Electrically Conductive Host with Porous Channels as a Highly Stable Na Metal Anode. <i>Nano Letters</i> , <b>2017</b> , 17, 3792-3797	11.5	191
82	Cellulose ionic conductors with high differential thermal voltage for low-grade heat harvesting. <i>Nature Materials</i> , <b>2019</b> , 18, 608-613	27	187
81	Continuous plating/stripping behavior of solid-state lithium metal anode in a 3D ion-conductive framework. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 3770-3775	11.5	178
80	Extrusion-Based 3D Printing of Hierarchically Porous Advanced Battery Electrodes. <i>Advanced Materials</i> , <b>2018</b> , 30, e1705651	24	164
79	Wood Composite as an Energy Efficient Building Material: Guided Sunlight Transmittance and Effective Thermal Insulation. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1601122	21.8	154
78	A general method to synthesize and sinter bulk ceramics in seconds. <i>Science</i> , <b>2020</b> , 368, 521-526	33.3	153
77	A carbon-based 3D current collector with surface protection for Li metal anode. <i>Nano Research</i> , <b>2017</b> , 10, 1356-1365	10	139
76	Anisotropic, Transparent Films with Aligned Cellulose Nanofibers. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606284	14	137
75	Three-Dimensional Printable High-Temperature and High-Rate Heaters. <i>ACS Nano</i> , <b>2016</b> , 10, 5272-9	16.7	137
74	Interface Engineering for Garnet-Based Solid-State Lithium-Metal Batteries: Materials, Structures, and Characterization. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802068	24	135
73	Extreme Light Management in Mesoporous Wood Cellulose Paper for Optoelectronics. <i>ACS Nano</i> , <b>2016</b> , 10, 1369-77	16.7	133
72	An Electron/Ion Dual-Conductive Alloy Framework for High-Rate and High-Capacity Solid-State Lithium-Metal Batteries. <i>Advanced Materials</i> , <b>2019</b> , 31, e1804815	24	128
71	Universal Soldering of Lithium and Sodium Alloys on Various Substrates for Batteries. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1701963	21.8	125
70	Carbonized-leaf Membrane with Anisotropic Surfaces for Sodium-ion Battery. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 2204-10	9.5	124
69	Holey Graphene Nanomanufacturing: Structure, Composition, and Electrochemical Properties. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 2920-2927	15.6	123

68	Silver nanowire transparent conducting paper-based electrode with high optical haze. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 1248-1254	7.1	120
67	In Situ Neutron Depth Profiling of Lithium Metal-Garnet Interfaces for Solid State Batteries. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 14257-14264	16.4	117
66	Enabling High-Areal-Capacity Lithium-Sulfur Batteries: Designing Anisotropic and Low-Tortuosity Porous Architectures. <i>ACS Nano</i> , <b>2017</b> , 11, 4801-4807	16.7	113
65	Hierarchically Porous, Ultrathick, Breathable Wood-Derived Cathode for Lithium-Oxygen Batteries. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1701203	21.8	109
64	Chemically Crushed Wood Cellulose Fiber towards High-Performance Sodium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 23291-6	9.5	101
63	Transparent, Anisotropic Biofilm with Aligned Bacterial Cellulose Nanofibers. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1707491	15.6	96
62	Highly transparent paper with tunable haze for green electronics. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 3313-3319	35.4	96
61	Cellulose-Nanofiber-Enabled 3D Printing of a Carbon-Nanotube Microfiber Network. <i>Small Methods</i> , <b>2017</b> , 1, 1700222	12.8	89
60	Self-Powered Human-Interactive Transparent Nanopaper Systems. <i>ACS Nano</i> , <b>2015</b> , 9, 7399-406	16.7	85
59	Light management in plastic-paper hybrid substrate towards high-performance optoelectronics. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 2278-2285	35.4	85
58	Highly Conductive Microfiber of Graphene Oxide Templated Carbonization of Nanofibrillated Cellulose. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 7366-7372	15.6	82
57	A nanofluidic ion regulation membrane with aligned cellulose nanofibers. <i>Science Advances</i> , <b>2019</b> , 5, eaau4238	14.38	81
56	In Situ Investigations of Li-MoS <sub>2</sub> with Planar Batteries. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1401742	21.8	78
55	Transient, in situ synthesis of ultrafine ruthenium nanoparticles for a high-rate Li-O <sub>2</sub> battery. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 1100-1107	35.4	77
54	Ultra-fast self-assembly and stabilization of reactive nanoparticles in reduced graphene oxide films. <i>Nature Communications</i> , <b>2016</b> , 7, 12332	17.4	74
53	Scalable aesthetic transparent wood for energy efficient buildings. <i>Nature Communications</i> , <b>2020</b> , 11, 3836	17.4	71
52	Clear Wood toward High-Performance Building Materials. <i>ACS Nano</i> , <b>2019</b> , 13, 9993-10001	16.7	70
51	A Strong, Tough, and Scalable Structural Material from Fast-Growing Bamboo. <i>Advanced Materials</i> , <b>2020</b> , 32, e1906308	24	69

50	Thermoelectric properties and performance of flexible reduced graphene oxide films up to 3,000 K. <i>Nature Energy</i> , <b>2018</b> , 3, 148-156	62.3	69
49	A High-Performance, Low-Tortuosity Wood-Carbon Monolith Reactor. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604257	42.57	69
48	Textile Inspired Lithium-Oxygen Battery Cathode with Decoupled Oxygen and Electrolyte Pathways. <i>Advanced Materials</i> , <b>2018</b> , 30, 1704907	24	63
47	Transient Rechargeable Batteries Triggered by Cascade Reactions. <i>Nano Letters</i> , <b>2015</b> , 15, 4664-71	11.5	60
46	In Situ Transmission Electron Microscopy Observation of Sodiation/Desodiation in a Long Cycle, High-Capacity Reduced Graphene Oxide Sodium-Ion Battery Anode. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 6528-6535	9.6	59
45	Millisecond synthesis of CoS nanoparticles for highly efficient overall water splitting. <i>Nano Research</i> , <b>2019</b> , 12, 2259-2267	10	57
44	Highly Anisotropic Conductors. <i>Advanced Materials</i> , <b>2017</b> , 29, 1703331	24	57
43	Rapid, in Situ Synthesis of High Capacity Battery Anodes through High Temperature Radiation-Based Thermal Shock. <i>Nano Letters</i> , <b>2016</b> , 16, 5553-8	11.5	52
42	High-throughput, combinatorial synthesis of multimetallic nanoclusters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 6316-6322	11.5	50
41	Isotropic Paper Directly from Anisotropic Wood: Top-Down Green Transparent Substrate Toward Biodegradable Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 28566-28571	9.5	49
40	Thermally conductive, dielectric PCM-boron nitride nanosheet composites for efficient electronic system thermal management. <i>Nanoscale</i> , <b>2016</b> , 8, 19326-19333	7.7	47
39	Hydrophobic nanostructured wood membrane for thermally efficient distillation. <i>Science Advances</i> , <b>2019</b> , 5, eaaw3203	14.3	47
38	Salinity-Gradient Power Generation with Ionized Wood Membranes. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1902590	21.8	47
37	Flexible, High Temperature, Planar Lighting with Large Scale Printable Nanocarbon Paper. <i>Advanced Materials</i> , <b>2016</b> , 28, 4684-91	24	47
36	Denary oxide nanoparticles as highly stable catalysts for methane combustion. <i>Nature Catalysis</i> , <b>2021</b> , 4, 62-70	36.5	45
35	Overcoming immiscibility toward bimetallic catalyst library. <i>Science Advances</i> , <b>2020</b> , 6, eaaz6844	14.3	42
34	A Solution-Processed High-Temperature, Flexible, Thin-Film Actuator. <i>Advanced Materials</i> , <b>2016</b> , 28, 8618-8624	18.42	42
33	Sodium-Ion Intercalated Transparent Conductors with Printed Reduced Graphene Oxide Networks. <i>Nano Letters</i> , <b>2015</b> , 15, 3763-9	11.5	41

32	Electrochemical Intercalation of Lithium Ions into NbSe <sub>2</sub> Nanosheets. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 11390-5	9.5	40
31	Flash-induced reduced graphene oxide as a Sn anode host for high performance sodium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 18306-18313	13	39
30	Thermally Conductive, Electrical Insulating, Optically Transparent Bi-Layer Nanopaper. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 28838-28843	9.5	39
29	Fire-Resistant Structural Material Enabled by an Anisotropic Thermally Conductive Hexagonal Boron Nitride Coating. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1909196	15.6	37
28	All-Component Transient Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1502496	21.8	37
27	Rapid Processing of Whole Bamboo with Exposed, Aligned Nanofibrils toward a High-Performance Structural Material. <i>ACS Nano</i> , <b>2020</b> , 14, 5194-5202	16.7	36
26	Flexible, Bio-Compatible Nanofluidic Ion Conductor. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 7707-7713	9.6	36
25	Epitaxial Welding of Carbon Nanotube Networks for Aqueous Battery Current Collectors. <i>ACS Nano</i> , <b>2018</b> , 12, 5266-5273	16.7	36
24	Flexible Solid-State Electrolyte with Aligned Nanostructures Derived from Wood <b>2019</b> , 1, 354-361		34
23	Anisotropic, Mesoporous Microfluidic Frameworks with Scalable, Aligned Cellulose Nanofibers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 7362-7370	9.5	33
22	High-Performance, Scalable Wood-Based Filtration Device with a Reversed-Tree Design. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 1887-1895	9.6	29
21	Single-digit-micrometer thickness wood speaker. <i>Nature Communications</i> , <b>2019</b> , 10, 5084	17.4	28
20	High Temperature Synthesis of Single-Component Metallic Nanoparticles. <i>ACS Central Science</i> , <b>2017</b> , 3, 294-301	16.8	26
19	Printable, high-performance solid-state electrolyte films. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	25
18	High-Temperature Atomic Mixing toward Well-Dispersed Bimetallic Electrocatalysts. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800466	21.8	24
17	Universal, In Situ Transformation of Bulky Compounds into Nanoscale Catalysts by High-Temperature Pulse. <i>Nano Letters</i> , <b>2017</b> , 17, 5817-5822	11.5	23
16	Solvo-thermal microwave-powered two-dimensional material exfoliation. <i>Chemical Communications</i> , <b>2016</b> , 52, 5757-60	5.8	23
15	Sustainable off-grid desalination of hypersaline waters using Janus wood evaporators. <i>Energy and Environmental Science</i> ,	35.4	21

14	Decoupling Ionic and Electronic Pathways in Low-Dimensional Hybrid Conductors. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 17830-17837	16.4	20
13	A solid state energy storage device with supercapacitorBattery hybrid design. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 15266-15272	13	20
12	In Situ, Fast, High-Temperature Synthesis of Nickel Nanoparticles in Reduced Graphene Oxide Matrix. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1601783	21.8	19
11	Super-Clear Nanopaper from Agro-Industrial Waste for Green Electronics. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 1600539	6.4	19
10	Design of High Capacity Dissoluble Electrodes for All Transient Batteries. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1605724	15.6	18
9	Inverted battery design as ion generator for interfacing with biosystems. <i>Nature Communications</i> , <b>2017</b> , 8, 15609	17.4	17
8	Stamping Flexible Li Alloy Anodes. <i>Advanced Materials</i> , <b>2021</b> , 33, e2005305	24	16
7	Improving the High-Voltage Li <sub>2</sub> FeMn <sub>3</sub> O <sub>8</sub> Cathode by Chlorine Doping. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 10820-5	9.5	13
6	Rapid Dissolving-Debonding Strategy for Optically Transparent Paper Production. <i>Scientific Reports</i> , <b>2015</b> , 5, 17703	4.9	6
5	Catalyst-Free Carbon Nanotube Growth in Confined Space High Temperature Gradient. <i>Research</i> , <b>2018</b> , 2018, 1793784	7.8	6
4	Predicting the flexural strength of Li-ion-conducting garnet type oxide for solid-state-batteries. <i>Journal of the American Ceramic Society</i> , <b>2020</b> , 103, 5186-5195	3.8	5
3	Rapid Synthesis and Sintering of Metals from Powders. <i>Advanced Science</i> , <b>2021</b> , 8, e2004229	13.6	5
2	Giant tunability of interlayer friction in graphite via ion intercalation. <i>Extreme Mechanics Letters</i> , <b>2020</b> , 35, 100616	3.9	4
1	Nanocarbon Paper: Flexible, High Temperature, Planar Lighting with Large Scale Printable Nanocarbon Paper (Adv. Mater. 23/2016). <i>Advanced Materials</i> , <b>2016</b> , 28, 4566	24	3