

# Jianwei Song

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/629161/publications.pdf>

Version: 2024-02-01

37  
papers

9,370  
citations

117571

34  
h-index

345118

36  
g-index

37  
all docs

37  
docs citations

37  
times ranked

8629  
citing authors

#	ARTICLE	IF	CITATIONS
1	Processing bulk natural wood into a high-performance structural material. <i>Nature</i> , 2018, 554, 224-228.	13.7	970
2	A radiative cooling structural material. <i>Science</i> , 2019, 364, 760-763.	6.0	856
3	Plasmonic Wood for High-Efficiency Solar Steam Generation. <i>Advanced Energy Materials</i> , 2018, 8, 1701028.	10.2	701
4	All-wood, low tortuosity, aqueous, biodegradable supercapacitors with ultra-high capacitance. <i>Energy and Environmental Science</i> , 2017, 10, 538-545.	15.6	602
5	Highly Flexible and Efficient Solar Steam Generation Device. <i>Advanced Materials</i> , 2017, 29, 1701756.	11.1	584
6	Highly Anisotropic, Highly Transparent Wood Composites. <i>Advanced Materials</i> , 2016, 28, 5181-5187.	11.1	518
7	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
8	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> , 2017, 114, 3584-3589.	3.3	412
9	Highly Compressible, Anisotropic Aerogel with Aligned Cellulose Nanofibers. <i>ACS Nano</i> , 2018, 12, 140-147.	7.3	364
10	Cellulose ionic conductors with high differential thermal voltage for low-grade heat harvesting. <i>Nature Materials</i> , 2019, 18, 608-613.	13.3	343
11	Anisotropic, lightweight, strong, and super thermally insulating nanowood with naturally aligned nanocellulose. <i>Science Advances</i> , 2018, 4, eaar3724.	4.7	336
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	Wood Composite as an Energy Efficient Building Material: Guided Sunlight Transmittance and Effective Thermal Insulation. <i>Advanced Energy Materials</i> , 2016, 6, 1601122.	10.2	228
14	Highly Conductive, Lightweight, Low-Tortuosity Carbon Frameworks as Ultrathick 3D Current Collectors. <i>Advanced Energy Materials</i> , 2017, 7, 1700595.	10.2	210
15	Lignin as a Wood-Inspired Binder Enabled Strong, Water Stable, and Biodegradable Paper for Plastic Replacement. <i>Advanced Functional Materials</i> , 2020, 30, 1906307.	7.8	208
16	Anisotropic, Transparent Films with Aligned Cellulose Nanofibers. <i>Advanced Materials</i> , 2017, 29, 1606284.	11.1	202
17	Conductive Cellulose Nanofiber Enabled Thick Electrode for Compact and Flexible Energy Storage Devices. <i>Advanced Energy Materials</i> , 2018, 8, 1802398.	10.2	163
18	Hierarchically Porous, Ultrathick, "Breathable" Wood-Derived Cathode for Lithium-Oxygen Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1701203.	10.2	161

#	ARTICLE	IF	CITATIONS
19	Enabling High-Areal-Capacity Lithium–Sulfur Batteries: Designing Anisotropic and Low-Tortuosity Porous Architectures. <i>ACS Nano</i> , 2017, 11, 4801-4807.	7.3	151
20	Transient, <i>in situ</i> synthesis of ultrafine ruthenium nanoparticles for a high-rate Li–CO <sub>2</sub> battery. <i>Energy and Environmental Science</i> , 2019, 12, 1100-1107.	15.6	129
21	Dense, Self-Formed Char Layer Enables a Fire-Retardant Wood Structural Material. <i>Advanced Functional Materials</i> , 2019, 29, 1807444.	7.8	125
22	From Wood to Textiles: Top-Down Assembly of Aligned Cellulose Nanofibers. <i>Advanced Materials</i> , 2018, 30, e1801347.	11.1	121
23	Nature-Inspired Tri-Pathway Design Enabling High-Performance Flexible Li–O <sub>2</sub> Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1802964.	10.2	121
24	Flexible lithium–CO <sub>2</sub> battery with ultrahigh capacity and stable cycling. <i>Energy and Environmental Science</i> , 2018, 11, 3231-3237.	15.6	117
25	Conductive Wood for High-Performance Structural Electromagnetic Interference Shielding. <i>Chemistry of Materials</i> , 2020, 32, 5280-5289.	3.2	117
26	Bioinspired Solar-Heated Carbon Absorbent for Efficient Cleanup of Highly Viscous Crude Oil. <i>Advanced Functional Materials</i> , 2019, 29, 1900162.	7.8	116
27	Highly Elastic Hydrated Cellulosic Materials with Durable Compressibility and Tunable Conductivity. <i>ACS Nano</i> , 2020, 14, 16723-16734.	7.3	98
28	Architecting a Floatable, Durable, and Scalable Steam Generator: Hydrophobic/Hydrophilic Bifunctional Structure for Solar Evaporation Enhancement. <i>Small Methods</i> , 2019, 3, 1800176.	4.6	97
29	Highly Anisotropic Conductors. <i>Advanced Materials</i> , 2017, 29, 1703331.	11.1	80
30	Isotropic Paper Directly from Anisotropic Wood: Top-Down Green Transparent Substrate Toward Biodegradable Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 28566-28571.	4.0	79
31	In Situ “Chainmail Catalyst” Assembly in Low-Tortuosity, Hierarchical Carbon Frameworks for Efficient and Stable Hydrogen Generation. <i>Advanced Energy Materials</i> , 2018, 8, 1801289.	10.2	79
32	All Natural, High Efficient Groundwater Extraction via Solar Steam/Vapor Generation. <i>Advanced Sustainable Systems</i> , 2019, 3, 1800055.	2.7	78
33	Flexible Solid-State Electrolyte with Aligned Nanostructures Derived from Wood. , 2019, 1, 354-361.		72
34	High-Performance, Scalable Wood-Based Filtration Device with a Reversed-Tree Design. <i>Chemistry of Materials</i> , 2020, 32, 1887-1895.	3.2	65
35	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
36	In Situ, Fast, High-Temperature Synthesis of Nickel Nanoparticles in Reduced Graphene Oxide Matrix. <i>Advanced Energy Materials</i> , 2017, 7, 1601783.	10.2	27

#	ARTICLE	IF	CITATIONS
37	Strong and Superhydrophobic Wood with Aligned Cellulose Nanofibers as a Waterproof Structural Material <sup>â€</sup> . Chinese Journal of Chemistry, 2020, 38, 823-829.	2.6	21