

Jianwei Song

List of Publications by Year in descending order

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37
papers

9,370
citations

117625

34
h-index

345221

36
g-index

37
all docs

37
docs citations

37
times ranked

8629
citing authors

#	ARTICLE	IF	CITATIONS
1	Lignin as a Wood-Inspired Binder Enabled Strong, Water Stable, and Biodegradable Paper for Plastic Replacement. <i>Advanced Functional Materials</i> , 2020, 30, 1906307.	14.9	208
2	An Energy-Efficient, Wood-Derived Structural Material Enabled by Pore Structure Engineering towards Building Efficiency. <i>Small Methods</i> , 2020, 4, 1900747.	8.6	53
3	Highly Elastic Hydrated Cellulosic Materials with Durable Compressibility and Tunable Conductivity. <i>ACS Nano</i> , 2020, 14, 16723-16734.	14.6	98
4	Conductive Wood for High-Performance Structural Electromagnetic Interference Shielding. <i>Chemistry of Materials</i> , 2020, 32, 5280-5289.	6.7	117
5	Strong and Superhydrophobic Wood with Aligned Cellulose Nanofibers as a Waterproof Structural Material. <i>Chinese Journal of Chemistry</i> , 2020, 38, 823-829.	4.9	21
6	High-Performance, Scalable Wood-Based Filtration Device with a Reversed-Tree Design. <i>Chemistry of Materials</i> , 2020, 32, 1887-1895.	6.7	65
7	All Natural, High Efficient Groundwater Extraction via Solar Steam/Vapor Generation. <i>Advanced Sustainable Systems</i> , 2019, 3, 1800055.	5.3	78
8	Flexible Solid-State Electrolyte with Aligned Nanostructures Derived from Wood. , 2019, 1, 354-361.		72
9	Nature-Inspired Tri-Pathway Design Enabling High-Performance Flexible Li-O ₂ Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1802964.	19.5	121
10	A radiative cooling structural material. <i>Science</i> , 2019, 364, 760-763.	12.6	856
11	Cellulose ionic conductors with high differential thermal voltage for low-grade heat harvesting. <i>Nature Materials</i> , 2019, 18, 608-613.	27.5	343
12	Bioinspired Solar-Heated Carbon Absorbent for Efficient Cleanup of Highly Viscous Crude Oil. <i>Advanced Functional Materials</i> , 2019, 29, 1900162.	14.9	116
13	Transient, <i>in situ</i> synthesis of ultrafine ruthenium nanoparticles for a high-rate Li-CO ₂ battery. <i>Energy and Environmental Science</i> , 2019, 12, 1100-1107.	30.8	129
14	Dense, Self-Formed Char Layer Enables a Fire-Retardant Wood Structural Material. <i>Advanced Functional Materials</i> , 2019, 29, 1807444.	14.9	125
15	Architecting a Floatable, Durable, and Scalable Steam Generator: Hydrophobic/Hydrophilic Bifunctional Structure for Solar Evaporation Enhancement. <i>Small Methods</i> , 2019, 3, 1800176.	8.6	97
16	Anisotropic, lightweight, strong, and super thermally insulating nanowood with naturally aligned nanocellulose. <i>Science Advances</i> , 2018, 4, eaar3724.	10.3	336
17	Processing bulk natural wood into a high-performance structural material. <i>Nature</i> , 2018, 554, 224-228.	27.8	970
18	Highly Compressible, Anisotropic Aerogel with Aligned Cellulose Nanofibers. <i>ACS Nano</i> , 2018, 12, 140-147.	14.6	364

#	ARTICLE	IF	CITATIONS
19	Plasmonic Wood for High Efficiency Solar Steam Generation. <i>Advanced Energy Materials</i> , 2018, 8, 1701028.	19.5	701
20	Hierarchically Porous, Ultrathick, "Breathable" Wood-Derived Cathode for Lithium-Oxygen Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1701203.	19.5	161
21	High-Performance Solar Steam Device with Layered Channels: Artificial Tree with a Reversed Design. <i>Advanced Energy Materials</i> , 2018, 8, 1701616.	19.5	255
22	Flexible lithium- CO_2 battery with ultrahigh capacity and stable cycling. <i>Energy and Environmental Science</i> , 2018, 11, 3231-3237.	30.8	117
23	Conductive Cellulose Nanofiber Enabled Thick Electrode for Compact and Flexible Energy Storage Devices. <i>Advanced Energy Materials</i> , 2018, 8, 1802398.	19.5	163
24	Isotropic Paper Directly from Anisotropic Wood: Top-Down Green Transparent Substrate Toward Biodegradable Electronics. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 28566-28571.	8.0	79
25	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.	19.5	79
26	From Wood to Textiles: Top-Down Assembly of Aligned Cellulose Nanofibers. <i>Advanced Materials</i> , 2018, 30, e1801347.	21.0	121
27	All-wood, low tortuosity, aqueous, biodegradable supercapacitors with ultra-high capacitance. <i>Energy and Environmental Science</i> , 2017, 10, 538-545.	30.8	602
28	In Situ, Fast, High-Temperature Synthesis of Nickel Nanoparticles in Reduced Graphene Oxide Matrix. <i>Advanced Energy Materials</i> , 2017, 7, 1601783.	19.5	27
29	Enabling High-Areal-Capacity Lithium-Sulfur Batteries: Designing Anisotropic and Low-Tortuosity Porous Architectures. <i>ACS Nano</i> , 2017, 11, 4801-4807.	14.6	151
30	Highly Conductive, Lightweight, Low-Tortuosity Carbon Frameworks as Ultrathick 3D Current Collectors. <i>Advanced Energy Materials</i> , 2017, 7, 1700595.	19.5	210
31	3D-Printed, All-in-One Evaporator for High Efficiency Solar Steam Generation under 1 Sun Illumination. <i>Advanced Materials</i> , 2017, 29, 1700981.	21.0	511
32	Highly Flexible and Efficient Solar Steam Generation Device. <i>Advanced Materials</i> , 2017, 29, 1701756.	21.0	584
33	Anisotropic, Transparent Films with Aligned Cellulose Nanofibers. <i>Advanced Materials</i> , 2017, 29, 1606284.	21.0	202
34	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.	7.1	412
35	Highly Anisotropic Conductors. <i>Advanced Materials</i> , 2017, 29, 1703331.	21.0	80
36	Highly Anisotropic, Highly Transparent Wood Composites. <i>Advanced Materials</i> , 2016, 28, 5181-5187.	21.0	518

#	ARTICLE	IF	CITATIONS
37	Wood Composite as an Energy Efficient Building Material: Guided Sunlight Transmittance and Effective Thermal Insulation. <i>Advanced Energy Materials</i> , 2016, 6, 1601122.	19.5	228