Chao Jia

List of Publications by Citations

53 papers	4,550 citations	30 h-index	59 g-index
59 ext. papers	5,893 ext. citations	12.5 avg, IF	5.51 L-index

#	Paper	IF	Citations
53	Highly Flexible and Efficient Solar Steam Generation Device. *Advanced Materials*, **2017**, 29, 1701756	24	424
52	3D-Printed, All-in-One Evaporator for High-Efficiency Solar Steam Generation under 1 Sun Illumination. *Advanced Materials*, **2017**, 29, 1700981	24	387
51	Tree-Inspired Design for High-Efficiency Water Extraction. *Advanced Materials*, **2017**, 29, 1704107	24	346
50	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
49	Muscle-Inspired Highly Anisotropic, Strong, Ion-Conductive Hydrogels. *Advanced Materials*, **2018**, 30, e1801934	24	257
48	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
47	Rich Mesostructures Derived from Natural Woods for Solar Steam Generation. *Joule*, **2017**, 1, 588-599	27.8	242
46	Lightweight, Mesoporous, and Highly Absorptive All-Nanofiber Aerogel for Efficient Solar Steam Generation. *ACS Applied Materials & Interfaces*, **2018**, 10, 1104-1112	9.5	227
45	Graphene oxide-based evaporator with one-dimensional water transport enabling high-efficiency solar desalination. *Nano Energy*, **2017**, 41, 201-209	17.1	226
44	Anisotropic, lightweight, strong, and super thermally insulating nanowood with naturally aligned nanocellulose. *Science Advances*, **2018**, 4, eaar3724	14.3	204
43	High-Performance Solar Steam Device with Layered Channels: Artificial Tree with a Reversed Design. *Advanced Energy Materials*, **2018**, 8, 1701616	21.8	174
42	Anisotropic, Transparent Films with Aligned Cellulose Nanofibers. *Advanced Materials*, **2017**, 29, 1606284	24	137
41	Scalable, anisotropic transparent paper directly from wood for light management in solar cells. *Nano Energy*, **2017**, 36, 366-373	17.1	90
40	A nanofluidic ion regulation membrane with aligned cellulose nanofibers. *Science Advances*, **2019**, 5, eaau4238	14	81
39	A Flexible, Robust, and Gel-Free Electroencephalogram Electrode for Noninvasive Brain-Computer Interfaces. *Nano Letters*, **2019**, 19, 6853-6861	11.5	80
38	Nitrogen and oxygen-codoped carbon nanospheres for excellent specific capacitance and cyclic stability supercapacitor electrodes. *Chemical Engineering Journal*, **2017**, 330, 1166-1173	14.7	80
37	From Wood to Textiles: Top-Down Assembly of Aligned Cellulose Nanofibers. *Advanced Materials*, **2018**, 30, e1801347	24	75

36	Clear Wood toward High-Performance Building Materials. *ACS Nano*, **2019**, 13, 9993-10001	16.7	70
35	CsPbX/CsPbX core/shell perovskite nanocrystals. *Chemical Communications*, **2018**, 54, 6300-6303	5.8	69
34	Bioinspired Solar-Heated Carbon Absorbent for Efficient Cleanup of Highly Viscous Crude Oil. *Advanced Functional Materials*, **2019**, 29, 1900162	15.6	64
33	Highly compressible and anisotropic lamellar ceramic sponges with superior thermal insulation and acoustic absorption performances. *Nature Communications*, **2020**, 11, 3732	17.4	64
32	Highly Anisotropic Conductors. *Advanced Materials*, **2017**, 29, 1703331	24	57
31	All Natural, High Efficient Groundwater Extraction via Solar Steam/Vapor Generation. *Advanced Sustainable Systems*, **2019**, 3, 1800055	5.9	56
30	Using a fully recyclable dicarboxylic acid for producing dispersible and thermally stable cellulose nanomaterials from different cellulosic sources. *Cellulose*, **2017**, 24, 2483-2498	5.5	55
29	Architecting a Floatable, Durable, and Scalable Steam Generator: Hydrophobic/Hydrophilic Bifunctional Structure for Solar Evaporation Enhancement. *Small Methods*, **2019**, 3, 1800176	12.8	54
28	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
27	Thermally Stable Cellulose Nanocrystals toward High-Performance 2D and 3D Nanostructures. *ACS Applied Materials & Interfaces*, **2017**, 9, 28922-28929	9.5	39
26	Biomass-based O, N-codoped activated carbon aerogels with ultramicropores for supercapacitors. *Journal of Materials Science*, **2018**, 53, 12374-12387	4.3	37
25	Cellulosic Biomass-Reinforced Polyvinylidene Fluoride Separators with Enhanced Dielectric Properties and Thermal Tolerance. *ACS Applied Materials & Interfaces*, **2017**, 9, 20885-20894	9.5	34
24	Anisotropic, Mesoporous Microfluidic Frameworks with Scalable, Aligned Cellulose Nanofibers. *ACS Applied Materials & Interfaces*, **2018**, 10, 7362-7370	9.5	33
23	High-Performance, Scalable Wood-Based Filtration Device with a Reversed-Tree Design. *Chemistry of Materials*, **2020**, 32, 1887-1895	9.6	29
22	A Foldable All-Ceramic Air Filter Paper with High Efficiency and High-Temperature Resistance. *Nano Letters*, **2020**, 20, 4993-5000	11.5	27
21	A large-area AgNW-modified textile with high-performance electromagnetic interference shielding. *Npj Flexible Electronics*, **2020**, 4,	10.7	26
20	Facile synthesis of magnetic fluorescent nanoparticles: adsorption and selective detection of Hg(II) in water. *Journal of Materials Chemistry C*, **2018**, 6, 2360-2369	7.1	24
19	Preparation and dielectric properties of cyanoethyl cellulose/BaTiO3 flexible nanocomposite films. *RSC Advances*, **2015**, 5, 15283-15291	3.7	22

18	Carboxymethyl Cellulose Nanofibrils with a Treelike Matrix: Preparation and Behavior of Pickering Emulsions Stabilization. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 12887-12896	8.3	21
17	Barium titanate as a filler for improving the dielectric property of cyanoethyl cellulose/antimony tin oxide nanocomposite films. *Composites Part A: Applied Science and Manufacturing*, **2016**, 86, 1-8	8.4	21
16	Large-scale blow spinning of heat-resistant nanofibrous air filters. *Nano Research*, **2020**, 13, 861-867	10	19
15	Low-cost and robust production of multi-doped 2D carbon nanosheets for high-performance lithium-ion capacitors. *Chemical Engineering Journal*, **2019**, 370, 508-517	14.7	16
14	Solution-blow spun PLA/SiO2 nanofiber membranes toward high efficiency oil/water separation. *Journal of Applied Polymer Science*, **2020**, 137, 49103	2.9	16
13	Chemical Synthesis and Applications of Colloidal Metal Phosphide Nanocrystals. *Frontiers in Chemistry*, **2018**, 6, 652	5	15
12	Thermal-responsive, super-strong, ultrathin firewalls for quenching thermal runaway in high-energy battery modules. *Energy Storage Materials*, **2021**, 40, 329-336	19.4	13
11	Direct Blow Spinning of Flexible and Transparent Ag Nanofiber Heater. *Advanced Materials Technologies*, **2019**, 4, 1900045	6.8	12
10	Nanocomposites membranes from cellulose nanofibers, SiO and carboxymethyl cellulose with improved properties. *Carbohydrate Polymers*, **2020**, 233, 115818	10.3	12
9	Observation and implication of halide exchange beyond CsPbX perovskite nanocrystals. *Nanoscale*, **2019**, 11, 3123-3128	7.7	11
8	Mass Production of Ultrafine Fibers by a Versatile Solution Blow Spinning Method. *Accounts of Materials Research*, **2021**, 2, 432-446	7.5	8
7	Fe3O4/Nitrogen-Doped Carbon Electrodes from Tailored Thermal Expansion toward Flexible Solid-State Asymmetric Supercapacitors. *Advanced Materials Interfaces*, **2019**, 6, 1901250	4.6	5
6	Flexible Ceramic Fibers: Recent Development in Preparation and Application.. *Advanced Fiber Materials*, **2022**, 1-31	10.9	4
5	Free-Standing Ultrafine Nanofiber Papers with High PM Mechanical Filtration Efficiency by Scalable Blow and Electro-Blow Spinning. *ACS Applied Materials & Interfaces*, **2021**, 13, 34773-34781	9.5	3
4	Molecular Weight Discrete Distribution-Induced Orientation of High-Strength Copolyamide Fibers: Effects of Component Proportion and Molecular Weight. *Macromolecules*, **2021**, 54, 7529-7539	5.5	3
3	Lignin hydrogel-based solar-driven evaporator for cost-effective and highly efficient water purification. *Desalination*, **2022**, 531, 115706	10.3	3
2	Ultra-fast bacterial inactivation of Cu2O@halloysite nanotubes hybrids with charge adsorption and physical piercing ability for medical protective fabrics. *Journal of Materials Science and Technology*, **2022**, 122, 1-9	9.1	0
1	Mass Production of Hierarchically Designed Engine-Intake Air Filters by Multinozzle Electroblow Spinning. *Nano Letters*,	11.5	0