

# Jian Zhu

## List of Publications by Year in descending order

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61  
papers

4,933  
citations

126708

33  
h-index

128067

60  
g-index

62  
all docs

62  
docs citations

62  
times ranked

8642  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stretchable nanoparticle conductors with self-organized conductive pathways. <i>Nature</i> , 2013, 500, 59-63.	13.7	729
2	Dispersions of Aramid Nanofibers: A New Nanoscale Building Block. <i>ACS Nano</i> , 2011, 5, 6945-6954.	7.3	553
3	Stable aqueous dispersions of optically and electronically active phosphorene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11688-11693.	3.3	206
4	Synthesis of MOF-derived nanostructures and their applications as anodes in lithium and sodium ion batteries. <i>Coordination Chemistry Reviews</i> , 2019, 388, 172-201.	9.5	192
5	Solution-processed carbon nanotube thin-film complementary static random access memory. <i>Nature Nanotechnology</i> , 2015, 10, 944-948.	15.6	184
6	Nitrogen-Doped Wrinkled Carbon Foils Derived from MOF Nanosheets for Superior Sodium Storage. <i>Advanced Energy Materials</i> , 2018, 8, 1801515.	10.2	158
7	Multiparameter Structural Optimization of Single-Walled Carbon Nanotube Composites: Toward Record Strength, Stiffness, and Toughness. <i>ACS Nano</i> , 2009, 3, 1711-1722.	7.3	141
8	Branched Aramid Nanofibers. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11744-11748.	7.2	140
9	Ultrastrong Polyoxazole Nanofiber Membranes for Dendrite-Proof and Heat-Resistant Battery Separators. <i>Nano Letters</i> , 2016, 16, 2981-2987.	4.5	139
10	High-Performance Solid-State Supercapacitors and Microsupercapacitors Derived from Printable Graphene Inks. <i>Advanced Energy Materials</i> , 2016, 6, 1600909.	10.2	139
11	Pseudonegative Thermal Expansion and the State of Water in Graphene Oxide Layered Assemblies. <i>ACS Nano</i> , 2012, 6, 8357-8365.	7.3	136
12	Transparent Conductors from Layer-by-Layer Assembled SWNT Films: Importance of Mechanical Properties and a New Figure of Merit. <i>ACS Nano</i> , 2010, 4, 3725-3734.	7.3	135
13	Enhanced Conductivity, Adhesion, and Environmental Stability of Printed Graphene Inks with Nitrocellulose. <i>Chemistry of Materials</i> , 2017, 29, 2332-2340.	3.2	134
14	Rational Construction of Highly Tunable Donor-Acceptor Materials Based on a Crystalline Host-Guest Platform. <i>Advanced Materials</i> , 2018, 30, e1804715.	11.1	132
15	Thermodynamic and Structural Insights into Nanocomposites Engineering by Comparing Two Materials Assembly Techniques for Graphene. <i>ACS Nano</i> , 2013, 7, 4818-4829.	7.3	122
16	Biomimetic Hierarchical Assembly of Helical Supraparticles from Chiral Nanoparticles. <i>ACS Nano</i> , 2016, 10, 3248-3256.	7.3	104
17	E-Textile Conductors and Polymer Composites for Conformal Lightweight Antennas. <i>IEEE Transactions on Antennas and Propagation</i> , 2010, 58, 2732-2736.	3.1	101
18	Solution-Processed Dielectrics Based on Thickness-Sorted Two-Dimensional Hexagonal Boron Nitride Nanosheets. <i>Nano Letters</i> , 2015, 15, 7029-7036.	4.5	101

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19	Fully Inkjet-Printed, Mechanically Flexible MoS <sub>2</sub> Nanosheet Photodetectors. ACS Applied Materials & Interfaces, 2019, 11, 5675-5681.	4.0	100
20	Assembly and Electronic Applications of Colloidal Nanomaterials. Advanced Materials, 2017, 29, 1603895.	11.1	98
21	Transparent Conductors from Carbon Nanotubes LBL-Assembled with Polymer Dopant with $\pi$ - $\pi$ Electron Transfer. Journal of the American Chemical Society, 2011, 133, 7450-7460.	6.6	82
22	Recent Advances on Conductive 2D Covalent Organic Frameworks. Small, 2021, 17, e2006043.	5.2	77
23	Self-Optimized Metal-Organic Framework Electrocatalysts with Structural Stability and High Current Tolerance for Water Oxidation. ACS Catalysis, 2021, 11, 7132-7143.	5.5	77
24	Layered Nanocomposites from Gold Nanoparticles for Neural Prosthetic Devices. Nano Letters, 2012, 12, 3391-3398.	4.5	73
25	Layer-by-Layer Assembled 2D Montmorillonite Dielectrics for Solution-Processed Electronics. Advanced Materials, 2016, 28, 63-68.	11.1	72
26	Scanning Probe Nanopatterning and Layer-by-Layer Thinning of Black Phosphorus. Advanced Materials, 2017, 29, 1604121.	11.1	62
27	Self-Organization of Plasmonic and Excitonic Nanoparticles into Resonant Chiral Supraparticle Assemblies. Nano Letters, 2014, 14, 6799-6810.	4.5	61
28	Metal-Layer Assisted Growth of Ultralong Quasi-2D MOF Nanoarrays on Arbitrary Substrates for Accelerated Oxygen Evolution. Small, 2019, 15, e1906086.	5.2	54
29	Thermal Instability Induced Oriented 2D Pores for Enhanced Sodium Storage. Small, 2018, 14, e1800639.	5.2	46
30	Shape-Morphing Nanocomposite Origami. Langmuir, 2014, 30, 5378-5385.	1.6	40
31	A general gelation strategy for 1D nanowires: dynamically stable functional gels for 3D printing flexible electronics. Nanoscale, 2018, 10, 20096-20107.	2.8	38
32	Deciphering of advantageous electrocatalytic water oxidation behavior of metal-organic framework in alkaline media. Nano Research, 2021, 14, 4680-4688.	5.8	37
33	Polyelectrolyte and carbon nanotube multilayers made from ionic liquid solutions. Nanoscale, 2010, 2, 2084.	2.8	34
34	Highly Ductile Multilayered Films by Layer-by-Layer Assembly of Oppositely Charged Polyurethanes for Biomedical Applications. Langmuir, 2009, 25, 14093-14099.	1.6	32
35	Metal-Organic Gel-Derived Fe <sub>x</sub> O <sub>y</sub> /Nitrogen-Doped Carbon Films for Enhanced Lithium Storage. Small, 2019, 15, e1804058.	5.2	31
36	Unusual multiscale mechanics of biomimetic nanoparticle hydrogels. Nature Communications, 2018, 9, 181.	5.8	28

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37	Encapsulated MnO in N-doping carbon nanofibers as efficient ORR electrocatalysts. <i>Science China Materials</i> , 2017, 60, 937-946.	3.5	27
38	Structure and Emission Modulation of a Series of Cd(II) Luminescent Coordination Polymers through Guest Dependent Donor–Acceptor Interaction. <i>Crystal Growth and Design</i> , 2019, 19, 1391-1398.	1.4	27
39	High-mobility patternable MoS <sub>2</sub> percolating nanofilms. <i>Nano Research</i> , 2021, 14, 2255.	5.8	27
40	Electronics from solution-processed 2D semiconductors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 12835-12861.	2.7	24
41	Single-Walled Carbon Nanotubes Spontaneous Loading into Exponentially Grown LBL Films. <i>Chemistry of Materials</i> , 2009, 21, 4397-4400.	3.2	23
42	Self-Limiting Assembly Approaches for Nanoadditive Manufacturing of Electronic Thin Films and Devices. <i>Advanced Materials</i> , 2020, 32, e1806480.	11.1	23
43	Copper nanomaterials and assemblies for soft electronics. <i>Science China Materials</i> , 2019, 62, 1679-1708.	3.5	22
44	Carbon Layer Coated Ni <sub>3</sub> S <sub>2</sub> /MoS <sub>2</sub> Nanohybrids as Efficient Bifunctional Electrocatalysts for Overall Water Splitting. <i>ChemElectroChem</i> , 2019, 6, 5603-5609.	1.7	22
45	Spontaneous Self-Organization Enables Dielectrophoresis of Small Nanoparticles and Formation of Photoconductive Microbridges. <i>Journal of the American Chemical Society</i> , 2011, 133, 10688-10691.	6.6	18
46	High Energy, Long Cycle, and Superior Low Temperature Performance Aqueous Na–Zn Hybrid Batteries Enabled by a Low-Cost and Protective Interphase Film-Forming Electrolyte. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 11425-11434.	4.0	18
47	Earth-abundant magnetite with carbon coatings as reversible cathodes for stretchable zinc-ion batteries. <i>Journal of Energy Chemistry</i> , 2021, 62, 552-562.	7.1	16
48	Branched Aramid Nanofibers. <i>Angewandte Chemie</i> , 2017, 129, 11906-11910.	1.6	14
49	High-Resolution Printable and Elastomeric Conductors from Strain-Adaptive Assemblies of Metallic Nanoparticles with Low Aspect Ratios. <i>Small</i> , 2020, 16, 2004793.	5.2	13
50	Synergistic combination of carbon-black and graphene for 3D printable stretchable conductors. <i>Materials Technology</i> , 2020, , 1-10.	1.5	10
51	Two-step colloidal synthesis of micron-scale Bi <sub>2</sub> O <sub>2</sub> Se nanosheets and their electrostatic assembly for thin-film photodetectors with fast response. <i>Chinese Chemical Letters</i> , 2021, 32, 3099-3104.	4.8	10
52	Two-Dimensional Cathode Materials for Aqueous Rechargeable Zinc-Ion Batteries. <i>Chinese Journal of Chemistry</i> , 2022, 40, 973-988.	2.6	10
53	Scalable Submicron Channel Fabrication by Suspended Nanofiber Lithography for Short-Channel Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2022, 32, 2109254.	7.8	9
54	Elastomeric Nanodielectrics for Soft and Hysteresis-Free Electronics. <i>Advanced Materials</i> , 2021, 33, e2104761.	11.1	7

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55	Thin-Film Transistors from Electrochemically Exfoliated In <sub>2</sub> Se <sub>3</sub> Nanosheets. <i>Micromachines</i> , 2022, 13, 956.	1.4	7
56	Gelation-Assisted Layer-by-Layer Deposition of High Performance Nanocomposites. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018, 232, 1383-1398.	1.4	6
57	Graph theoretical design of biomimetic aramid nanofiber composites as insulation coatings for implantable bioelectronics. <i>MRS Bulletin</i> , 2021, 46, 576-587.	1.7	5
58	Lithium-Ion Batteries: Metal-Organic Gel-Derived Fe <sub>x</sub> O <sub>y</sub> /Nitrogen-Doped Carbon Films for Enhanced Lithium Storage ( <i>Small</i> 3/2019). <i>Small</i> , 2019, 15, 1970018.	5.2	3
59	Transistors: Layer-by-Layer Assembled 2D Montmorillonite Dielectrics for Solution-Processed Electronics ( <i>Adv. Mater.</i> 1/2016). <i>Advanced Materials</i> , 2016, 28, 203-203.	11.1	2
60	Research Progress of Flexible Piezoresistive Sensors Prepared by Solution-Based Processing. <i>Acta Chimica Sinica</i> , 2022, 80, 214.	0.5	1
61	Nanoadditive Manufacturing: Self-Limiting Assembly Approaches for Nanoadditive Manufacturing of Electronic Thin Films and Devices ( <i>Adv. Mater.</i> 3/2020). <i>Advanced Materials</i> , 2020, 32, 2070021.	11.1	0