

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	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
2	^{2D} Cathode Materials for Aqueous Rechargeable ^{Zn} Batteries. <i>Chinese Journal of Chemistry</i> , 2022, 40, 973-988.	2.6	10
3	Research Progress of Flexible Piezoresistive Sensors Prepared by Solution-Based Processing. <i>Acta Chimica Sinica</i> , 2022, 80, 214.	0.5	1
4	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 & Interfaces</i> , 2022, 14, 11425-11434.	4.0	18
5	Thin-Film Transistors from Electrochemically Exfoliated In ₂ Se ₃ Nanosheets. <i>Micromachines</i> , 2022, 13, 956.	1.4	7
6	High-mobility patternable MoS ₂ percolating nanofilms. <i>Nano Research</i> , 2021, 14, 2255.	5.8	27
7	Recent Advances on Conductive 2D Covalent Organic Frameworks. <i>Small</i> , 2021, 17, e2006043.	5.2	77
8	Two-step colloidal synthesis of micron-scale Bi ₂ O ₂ 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
9	Deciphering of advantageous electrocatalytic water oxidation behavior of metal-organic framework in alkaline media. <i>Nano Research</i> , 2021, 14, 4680-4688.	5.8	37
10	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
11	Self-Optimized Metal-Organic Framework Electrocatalysts with Structural Stability and High Current Tolerance for Water Oxidation. <i>ACS Catalysis</i> , 2021, 11, 7132-7143.	5.5	77
12	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
13	Elastomeric Nanodielectrics for Soft and Hysteresis-Free Electronics. <i>Advanced Materials</i> , 2021, 33, e2104761.	11.1	7
14	Self-Limiting Assembly Approaches for Nanoadditive Manufacturing of Electronic Thin Films and Devices. <i>Advanced Materials</i> , 2020, 32, e1806480.	11.1	23
15	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
16	Synergistic combination of carbon-black and graphene for 3D printable stretchable conductors. <i>Materials Technology</i> , 2020, , 1-10.	1.5	10
17	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
18	Copper nanomaterials and assemblies for soft electronics. <i>Science China Materials</i> , 2019, 62, 1679-1708.	3.5	22

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19	Electronics from solution-processed 2D semiconductors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 12835-12861.	2.7	24
20	Carbon Layer Coated Ni ₃ S ₂ /MoS ₂ Nanohybrids as Efficient Bifunctional Electrocatalysts for Overall Water Splitting. <i>ChemElectroChem</i> , 2019, 6, 5603-5609.	1.7	22
21	Fully Inkjet-Printed, Mechanically Flexible MoS ₂ Nanosheet Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5675-5681.	4.0	100
22	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
23	Metal-Layer Assisted Growth of Ultralong Quasi-2D MOF Nanoarrays on Arbitrary Substrates for Accelerated Oxygen Evolution. <i>Small</i> , 2019, 15, e1906086.	5.2	54
24	Metal-Organic Gel-Derived Fe _x O _y /Nitrogen-Doped Carbon Films for Enhanced Lithium Storage. <i>Small</i> , 2019, 15, e1804058.	5.2	31
25	Lithium-Ion Batteries: Metal-Organic Gel-Derived Fe _x O _y /Nitrogen-Doped Carbon Films for Enhanced Lithium Storage (<i>Small</i> 3/2019). <i>Small</i> , 2019, 15, 1970018.	5.2	3
26	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
27	Thermal Instability Induced Oriented 2D Pores for Enhanced Sodium Storage. <i>Small</i> , 2018, 14, e1800639.	5.2	46
28	Unusual multiscale mechanics of biomimetic nanoparticle hydrogels. <i>Nature Communications</i> , 2018, 9, 181.	5.8	28
29	A general gelation strategy for 1D nanowires: dynamically stable functional gels for 3D printing flexible electronics. <i>Nanoscale</i> , 2018, 10, 20096-20107.	2.8	38
30	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
31	Nitrogen-Doped Wrinkled Carbon Foils Derived from MOF Nanosheets for Superior Sodium Storage. <i>Advanced Energy Materials</i> , 2018, 8, 1801515.	10.2	158
32	Gelation-Assisted Layer-by-Layer Deposition of High Performance Nanocomposites. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018, 232, 1383-1398.	1.4	6
33	Enhanced Conductivity, Adhesion, and Environmental Stability of Printed Graphene Inks with Nitrocellulose. <i>Chemistry of Materials</i> , 2017, 29, 2332-2340.	3.2	134
34	Encapsulated MnO in N-doping carbon nanofibers as efficient ORR electrocatalysts. <i>Science China Materials</i> , 2017, 60, 937-946.	3.5	27
35	Branched Aramid Nanofibers. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11744-11748.	7.2	140
36	Branched Aramid Nanofibers. <i>Angewandte Chemie</i> , 2017, 129, 11906-11910.	1.6	14

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37	Scanning Probe Nanopatterning and Layer-by-Layer Thinning of Black Phosphorus. <i>Advanced Materials</i> , 2017, 29, 1604121.	11.1	62
38	Assembly and Electronic Applications of Colloidal Nanomaterials. <i>Advanced Materials</i> , 2017, 29, 1603895.	11.1	98
39	Transistors: Layer-by-Layer Assembled 2D Montmorillonite Dielectrics for Solution-Processed Electronics (Adv. Mater. 1/2016). <i>Advanced Materials</i> , 2016, 28, 203-203.	11.1	2
40	Layer-by-Layer Assembled 2D Montmorillonite Dielectrics for Solution-Processed Electronics. <i>Advanced Materials</i> , 2016, 28, 63-68.	11.1	72
41	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
42	Ultrastrong Polyoxazole Nanofiber Membranes for Dendrite-Proof and Heat-Resistant Battery Separators. <i>Nano Letters</i> , 2016, 16, 2981-2987.	4.5	139
43	High-Performance Solid-State Supercapacitors and Microsupercapacitors Derived from Printable Graphene Inks. <i>Advanced Energy Materials</i> , 2016, 6, 1600909.	10.2	139
44	Biomimetic Hierarchical Assembly of Helical Supraparticles from Chiral Nanoparticles. <i>ACS Nano</i> , 2016, 10, 3248-3256.	7.3	104
45	Solution-Processed Dielectrics Based on Thickness-Sorted Two-Dimensional Hexagonal Boron Nitride Nanosheets. <i>Nano Letters</i> , 2015, 15, 7029-7036.	4.5	101
46	Solution-processed carbon nanotube thin-film complementary static random access memory. <i>Nature Nanotechnology</i> , 2015, 10, 944-948.	15.6	184
47	Self-Organization of Plasmonic and Excitonic Nanoparticles into Resonant Chiral Supraparticle Assemblies. <i>Nano Letters</i> , 2014, 14, 6799-6810.	4.5	61
48	Shape-Morphing Nanocomposite Origami. <i>Langmuir</i> , 2014, 30, 5378-5385.	1.6	40
49	Stretchable nanoparticle conductors with self-organized conductive pathways. <i>Nature</i> , 2013, 500, 59-63.	13.7	729
50	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
51	Pseudonegative Thermal Expansion and the State of Water in Graphene Oxide Layered Assemblies. <i>ACS Nano</i> , 2012, 6, 8357-8365.	7.3	136
52	Layered Nanocomposites from Gold Nanoparticles for Neural Prosthetic Devices. <i>Nano Letters</i> , 2012, 12, 3391-3398.	4.5	73
53	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
54	Dispersions of Aramid Nanofibers: A New Nanoscale Building Block. <i>ACS Nano</i> , 2011, 5, 6945-6954.	7.3	553

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55	Transparent Conductors from Carbon Nanotubes LBL-Assembled with Polymer Dopant with π - π Electron Transfer. <i>Journal of the American Chemical Society</i> , 2011, 133, 7450-7460.	6.6	82
56	Polyelectrolyte and carbon nanotube multilayers made from ionic liquid solutions. <i>Nanoscale</i> , 2010, 2, 2084.	2.8	34
57	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
58	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
59	Single-Walled Carbon Nanotubes Spontaneous Loading into Exponentially Grown LBL Films. <i>Chemistry of Materials</i> , 2009, 21, 4397-4400.	3.2	23
60	Highly Ductile Multilayered Films by Layer-by-Layer Assembly of Oppositely Charged Polyurethanes for Biomedical Applications. <i>Langmuir</i> , 2009, 25, 14093-14099.	1.6	32
61	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