

# Jian-Wei Liu

## List of Publications by Year in descending order

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82  
papers

4,516  
citations

101543

36  
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102487

66  
g-index

91  
all docs

91  
docs citations

91  
times ranked

6513  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural Design of Nanowire Wearable Stretchable Thermoelectric Generator. Nano Letters, 2022, 22, 4131-4136.	9.1	17
2	Self-Assembly of Nanowires: From Dynamic Monitoring to Precision Control. Accounts of Chemical Research, 2022, 55, 1480-1491.	15.6	12
3	Manipulating Nanowire Structures for an Enhanced Broad-Band Flexible Photothermoelectric Photodetector. Nano Letters, 2022, 22, 5929-5935.	9.1	8
4	Necklace-like ultrathin silver telluride nanowire films and their reversible structural phase transition. Chemical Communications, 2021, 57, 6887-6890.	4.1	3
5	Microchemical Engineering in a 3D Ordered Channel Enhances Electrocatalysis. Journal of the American Chemical Society, 2021, 143, 12600-12608.	13.7	25
6	Enhanced H <sub>2</sub> evolution reaction due to H spillover during electrolytic reduction of water on a Au/TiO <sub>2</sub> electrode. Electrochemistry Communications, 2021, 129, 107085.	4.7	6
7	A Metallic Ion-Induced Self-Assembly Enabling Nanowire-Based Aerogels. Small, 2021, 17, e2103406.	10.0	3
8	Manipulating Nanowire Assemblies toward Multicolor Transparent Electrochromic Device. Nano Letters, 2021, 21, 9203-9209.	9.1	39
9	A Metallic Ion-Induced Self-Assembly Enabling Nanowire-Based Aerogels (Small 44/2021). Small, 2021, 17, 2170231.	10.0	0
10	Self-Powered Flexible Electrochromic Smart Window. Nano Letters, 2021, 21, 9976-9982.	9.1	89
11	Composition Modulation of Pt-Based Nanowire Electrocatalysts Enhances Methanol Oxidation Performance. Inorganic Chemistry, 2020, 59, 1376-1382.	4.0	11
12	Self-Assembly Anisotropic Magnetic Nanowire Films Induced by External Magnetic Field. ChemistryOpen, 2020, 9, 588-592.	1.9	4
13	Radial Nanowire Assemblies under Rotating Magnetic Field Enabled Efficient Charge Separation. Nano Letters, 2020, 20, 2763-2769.	9.1	16
14	Structure-property relationship of assembled nanowire materials. Materials Chemistry Frontiers, 2020, 4, 2881-2903.	5.9	24
15	Biomimetic Difunctional Carbon-Nanotube-Based Aerogels for Efficient Steam Generation. ACS Applied Nano Materials, 2020, 3, 4690-4698.	5.0	38
16	Real-Time Visualization of Solid-Phase Ion Migration Kinetics on Nanowire Monolayer. Journal of the American Chemical Society, 2020, 142, 7968-7975.	13.7	10
17	Nanowire Genome: A Magic Toolbox for 1D Nanostructures. Advanced Materials, 2019, 31, e1902807.	21.0	44
18	Recycling Valuable Elements from the Chemical Synthesis Process of Nanomaterials: A Sustainable View. , 2019, 1, 541-548.		16

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19	Biomimetic Carbon Tube Aerogel Enables Super-Elasticity and Thermal Insulation. <i>CheM</i> , 2019, 5, 1871-1882.	11.7	136
20	Ordered Nanostructure Enhances Electrocatalytic Performance by Directional Micro-Electric Field. <i>Journal of the American Chemical Society</i> , 2019, 141, 10729-10735.	13.7	38
21	Anti-biofouling double-layered unidirectional scaffold for long-term solar-driven water evaporation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16696-16703.	10.3	55
22	Mass-production of flexible and transparent Te-Au nylon SERS substrate with excellent mechanical stability. <i>Nano Research</i> , 2019, 12, 1483-1488.	10.4	8
23	Mass Production of Nanowire-Nylon Flexible Transparent Smart Windows for PM2.5 Capture. <i>IScience</i> , 2019, 12, 333-341.	4.1	45
24	Multi-View Capsule Network. <i>Lecture Notes in Computer Science</i> , 2019, , 152-165.	1.3	2
25	Synthesis of PdS <sub>x</sub> -Mediated Polydymite Heteronanorods and Their Long-Range Activation for Enhanced Water Electroreduction. <i>Research</i> , 2019, 2019, 8078549.	5.7	9
26	DDRM-CapsNet: Capsule Network Based on Deep Dynamic Routing Mechanism for Complex Data. <i>Lecture Notes in Computer Science</i> , 2019, , 178-189.	1.3	2
27	Stability and protection of nanowire devices in air. <i>Nano Research</i> , 2018, 11, 3353-3361.	10.4	16
28	Potassium Ion Assisted Synthesis of Organic-Inorganic Hybrid Perovskite Nanobelts for Stable and Flexible Photodetectors. <i>Advanced Optical Materials</i> , 2018, 6, 1701029.	7.3	37
29	Online Learning Algorithm Based on Adaptive Control Theory. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018, 29, 2278-2293.	11.3	5
30	Strong and stiff Ag nanowire-chitosan composite films reinforced by Ag-S covalent bonds. <i>Nano Research</i> , 2018, 11, 410-419.	10.4	29
31	Nanowire Assemblies for Flexible Electronic Devices: Recent Advances and Perspectives. <i>Advanced Materials</i> , 2018, 30, e1803430.	21.0	124
32	Real-Time Probing of Nanowire Assembly Kinetics at the Air-Water Interface by In-Situ Synchrotron X-Ray Scattering. <i>Angewandte Chemie</i> , 2018, 130, 8262-8266.	2.0	3
33	Real-Time Probing of Nanowire Assembly Kinetics at the Air-Water Interface by In-Situ Synchrotron X-Ray Scattering. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8130-8134.	13.8	14
34	Emerging tellurium nanostructures: controllable synthesis and their applications. <i>Chemical Society Reviews</i> , 2017, 46, 2732-2753.	38.1	186
35	Phase-Selective Syntheses of Cobalt Telluride Nanofleeces for Efficient Oxygen Evolution Catalysts. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7769-7773.	13.8	157
36	Phase-Selective Syntheses of Cobalt Telluride Nanofleeces for Efficient Oxygen Evolution Catalysts. <i>Angewandte Chemie</i> , 2017, 129, 7877-7881.	2.0	24

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37	Large Area Co-Assembly of Nanowires for Flexible Transparent Smart Windows. <i>Journal of the American Chemical Society</i> , 2017, 139, 9921-9926.	13.7	236
38	A room-temperature environmentally friendly solution process to assemble silver nanowire architectures for flexible transparent electrodes. <i>Nanoscale</i> , 2017, 9, 52-55.	5.6	33
39	Ultrathin Tungsten Oxide Nanowires/Reduced Graphene Oxide Composites for Toluene Sensing. <i>Sensors</i> , 2017, 17, 2245.	3.8	18
40	Adaptive PID and Model Reference Adaptive Control Switch Controller for Nonlinear Hydraulic Actuator. <i>Mathematical Problems in Engineering</i> , 2017, 2017, 1-15.	1.1	15
41	Interface-Induced Macroscopic Nanowire Assemblies. <i>Springer Theses</i> , 2017, , 39-55.	0.1	0
42	Applications of the Nanowire Assemblies. <i>Springer Theses</i> , 2017, , 67-82.	0.1	0
43	Electron-Beam-Induced Nanowire Assemblies. <i>Springer Theses</i> , 2017, , 57-65.	0.1	0
44	Binder/Collector-Free Te Cathodes: Elastic Carbon Nanotube Aerogel Meets Tellurium Nanowires: A Binder- and Collector-Free Electrode for Li-Te Batteries ( <i>Adv. Funct. Mater.</i> 21/2016). <i>Advanced Functional Materials</i> , 2016, 26, 3747-3747.	14.9	0
45	Coiling ultrathin tellurium nanowires into nanorings by Pickering emulsion. <i>Chemical Communications</i> , 2016, 52, 8091-8094.	4.1	4
46	Three-dimensional melamine sponge loaded with Au/ceria nanowires for continuous reduction of p-nitrophenol in a consecutive flow system. <i>Science Bulletin</i> , 2016, 61, 700-705.	9.0	21
47	A surfactant-free route to synthesize $Ba_x Sr_{1-x} TiO_3$ nanoparticles at room temperature, their dielectric and microwave absorption properties. <i>Science China Materials</i> , 2016, 59, 609-617.	6.3	22
48	Recycling valuable silver from waste generated in diverse nanotemplate reactions. <i>Science China Materials</i> , 2016, 59, 538-546.	6.3	8
49	Systematic Synthesis of Tellurium Nanostructures and Their Optical Properties: From Nanoparticles to Nanorods, Nanowires, and Nanotubes. <i>ChemNanoMat</i> , 2016, 2, 167-170.	2.8	61
50	Elastic Carbon Nanotube Aerogel Meets Tellurium Nanowires: A Binder- and Collector-Free Electrode for Li-Te Batteries. <i>Advanced Functional Materials</i> , 2016, 26, 3580-3588.	14.9	73
51	Templating synthesis of ternary PtPdTe nanowires with tunable diameter for methanol electrooxidation. <i>CrystEngComm</i> , 2016, 18, 4038-4041.	2.6	9
52	Palladium Nanoparticles Supported on Titanate Nanobelts for Solvent-Free Aerobic Oxidation of Alcohols. <i>ChemCatChem</i> , 2015, 7, 4131-4136.	3.7	28
53	Template- and surfactant-free synthesis of ultrathin $CeO_2$ nanowires in a mixed solvent and their superior adsorption capability for water treatment. <i>Chemical Science</i> , 2015, 6, 2511-2515.	7.4	60
54	Surfactant-free synthesis of $SrTiO_3$ hierarchical structures in ethanol/water mixed solvent at room temperature. <i>CrystEngComm</i> , 2015, 17, 6895-6900.	2.6	7

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55	A new generation of alloyed/multimetal chalcogenide nanowires by chemical transformation. <i>Science Advances</i> , 2015, 1, e1500714.	10.3	57
56	Recycling Nanowire Templates for Multiplex Templating Synthesis: A Green and Sustainable Strategy. <i>Chemistry - A European Journal</i> , 2015, 21, 4935-4939.	3.3	27
57	Emergent motifs of macroscopic nanowire assemblies. <i>National Science Review</i> , 2015, 2, 392-393.	9.5	8
58	Surface functionalization and structure characterizations of nanodiamond and its epoxy based nanocomposites. <i>Composites Part B: Engineering</i> , 2015, 78, 480-487.	12.0	56
59	Interfacial state induced ultrasensitive ultraviolet light photodetector with resolved flux down to 85 photons per second. <i>Nano Research</i> , 2015, 8, 1098-1107.	10.4	17
60	First sub-kilogram-scale synthesis of high quality ultrathin tellurium nanowires. <i>Materials Horizons</i> , 2014, 1, 338.	12.2	50
61	Manipulating Nanowire Assembly for Flexible Transparent Electrodes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13477-13482.	13.8	97
62	Ultrathin WO <sub>3</sub> Nanowire Assemblies for Electrochromic Devices. <i>Nano Letters</i> , 2013, 13, 3589-3593.	9.1	198
63	One-Pot Colloidal Chemistry Route to Homogeneous and Doped Colloidosomes. <i>Journal of the American Chemical Society</i> , 2013, 135, 12928-12931.	13.7	60
64	Co-assembled thin films of Ag nanowires and functional nanoparticles at the liquid-liquid interface by shaking. <i>Nanoscale</i> , 2013, 5, 4223.	5.6	34
65	One-pot synthesis of branched palladium nanodendrites with superior electrocatalytic performance. <i>Nanoscale</i> , 2013, 5, 3202.	5.6	56
66	Chloride Anion Triggered Synthesis and Assembly of Gold Nanoparticle-Ultrathin Cadmium Selenide Nanowire Networks with Enhanced Photoconductivity. <i>Particle and Particle Systems Characterization</i> , 2013, 30, 97-101.	2.3	6
67	Nanowire Networks: Chloride Anion Triggered Synthesis and Assembly of Gold Nanoparticle-Ultrathin Cadmium Selenide Nanowire Networks with Enhanced Photoconductivity (Part. Part. Syst. Charact.) <i>Tj ETQq1 1 0.784314 rgBT /Over</i>	11.0	114
68	Multiplex Templating Process in One-Dimensional Nanoscale: Controllable Synthesis, Macroscopic Assemblies, and Applications. <i>Accounts of Chemical Research</i> , 2013, 46, 1450-1461.	15.6	147
69	Stretchable Conductors Based on Silver Nanowires: Improved Performance through a Binary Network Design. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1654-1659.	13.8	182
70	Shape-Controlled Synthesis of Monodisperse PdCu Nanocubes and Their Electrocatalytic Properties. <i>ChemSusChem</i> , 2013, 6, 1878-1882.	6.8	67
71	Flexible Electronics: Ultrathin Hetero-Nanowire-Based Flexible Electronics with Tunable Conductivity ( <i>Adv. Mater.</i> 41/2013). <i>Advanced Materials</i> , 2013, 25, 5909-5909.	21.0	2
72	Ultrathin Hetero-Nanowire-Based Flexible Electronics with Tunable Conductivity. <i>Advanced Materials</i> , 2013, 25, 5910-5915.	21.0	36

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73	Ordering Ag nanowire arrays by a glass capillary: A portable, reusable and durable SERS substrate. <i>Scientific Reports</i> , 2012, 2, 987.	3.3	93
74	A Family of Carbon-Based Nanocomposite Tubular Structures Created by <i>in Situ</i> Electron Beam Irradiation. <i>ACS Nano</i> , 2012, 6, 4500-4507.	14.6	34
75	A General Strategy for Self-Assembly of Nanosized Building Blocks on Liquid/Liquid Interfaces. <i>Small</i> , 2012, 8, 2412-2420.	10.0	57
76	Macroscale Ordered Ultrathin Telluride Nanowire Films, and Tellurium/Telluride Hetero-Nanowire Films. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7420-7425.	13.8	84
77	Macroscopic-Scale Assembled Nanowire Thin Films and Their Functionalities. <i>Chemical Reviews</i> , 2012, 112, 4770-4799.	47.7	266
78	Ordering of Disordered Nanowires: Spontaneous Formation of Highly Aligned, Ultralong Ag Nanowire Films at Oil-Water-Air Interface. <i>Advanced Functional Materials</i> , 2010, 20, 958-964.	14.9	139
79	Rapid Microwave-Assisted Synthesis of Uniform Ultralong Te Nanowires, Optical Property, and Chemical Stability. <i>Langmuir</i> , 2010, 26, 11372-11377.	3.5	112
80	Mesostructured Assemblies of Ultrathin Superlong Tellurium Nanowires and Their Photoconductivity. <i>Journal of the American Chemical Society</i> , 2010, 132, 8945-8952.	13.7	242
81	A Simple Hydrothermal Route to Large-Scale Synthesis of Uniform Silver Nanowires. <i>Chemistry - A European Journal</i> , 2005, 11, 160-163.	3.3	216
82	Large-Scale Synthesis of Carbon Nanotubes by an Ethanol Thermal Reduction Process. <i>Journal of the American Chemical Society</i> , 2003, 125, 8088-8089.	13.7	174