Jian-Wei Liu

List of Publications by Year
in descending order

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Version: 2024-02-01

82 papers	4,516 citations	101543 36 h-index	102487 66 g-index
91 all docs	91 docs citations	91 times ranked	6513 citing authors

#	Article	IF	Citations
1	Macroscopic-Scale Assembled Nanowire Thin Films and Their Functionalities. Chemical Reviews, 2012, 112, 4770-4799.	47.7	266
2	Mesostructured Assemblies of Ultrathin Superlong Tellurium Nanowires and Their Photoconductivity. Journal of the American Chemical Society, 2010, 132, 8945-8952.	13.7	242
3	Large Area Co-Assembly of Nanowires for Flexible Transparent Smart Windows. Journal of the American Chemical Society, 2017, 139, 9921-9926.	13.7	236
4	A Simple Hydrothermal Route to Large-Scale Synthesis of Uniform Silver Nanowires. Chemistry - A European Journal, 2005, 11, 160-163.	3.3	216
5	Ultrathin W₁₈O₄₉ Nanowire Assemblies for Electrochromic Devices. Nano Letters, 2013, 13, 3589-3593.	9.1	198
6	Emerging tellurium nanostructures: controllable synthesis and their applications. Chemical Society Reviews, 2017, 46, 2732-2753.	38.1	186
7	Stretchable Conductors Based on Silver Nanowires: Improved Performance through a Binary Network Design. Angewandte Chemie - International Edition, 2013, 52, 1654-1659.	13.8	182
8	Large-Scale Synthesis of Carbon Nanotubes by an Ethanol Thermal Reduction Process. Journal of the American Chemical Society, 2003, 125, 8088-8089.	13.7	174
9	Phaseâ€Selective Syntheses of Cobalt Telluride Nanofleeces for Efficient Oxygen Evolution Catalysts. Angewandte Chemie - International Edition, 2017, 56, 7769-7773.	13.8	157
10	Multiplex Templating Process in One-Dimensional Nanoscale: Controllable Synthesis, Macroscopic Assemblies, and Applications. Accounts of Chemical Research, 2013, 46, 1450-1461.	15.6	147
11	Ordering of Disordered Nanowires: Spontaneous Formation of Highly Aligned, Ultralong Ag Nanowire Films at Oilâ€“Waterâ€“Air Interface. Advanced Functional Materials, 2010, 20, 958-964.	14.9	139
12	Biomimetic Carbon Tube Aerogel Enables Super-Elasticity and Thermal Insulation. CheM, 2019, 5, 1871-1882.	11.7	136
13	Nanowire Assemblies for Flexible Electronic Devices: Recent Advances and Perspectives. Advanced Materials, 2018, 30, e1803430.	21.0	124
14	Rapid Microwave-Assisted Synthesis of Uniform Ultralong Te Nanowires, Optical Property, and Chemical Stability. Langmuir, 2010, 26, 11372-11377.	3.5	112
15	Manipulating Nanowire Assembly for Flexible Transparent Electrodes. Angewandte Chemie - International Edition, 2014, 53, 13477-13482.	13.8	97
16	Ordering Ag nanowire arrays by a glass capillary: A portable, reusable and durable SERS substrate. Scientific Reports, 2012, 2, 987.	3.3	93
17	Self-Powered Flexible Electrochromic Smart Window. Nano Letters, 2021, 21, 9976-9982.	9.1	89
18	Macroscale Ordered Ultrathin Telluride Nanowire Films, and Tellurium/Telluride Heteroâ€Nanowire Films. Angewandte Chemie - International Edition, 2012, 51, 7420-7425.	13.8	84

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19	Elastic Carbon Nanotube Aerogel Meets Tellurium Nanowires: A Binderâ€•and Collectorâ€Free Electrode for Liâ€Te Batteries. Advanced Functional Materials, 2016, 26, 3580-3588.	14.9	73
20	Shapeâ€Controlled Synthesis of Monodisperse PdCu Nanocubes and Their Electrocatalytic Properties. ChemSusChem, 2013, 6, 1878-1882.	6.8	67
21	Systematic Synthesis of Tellurium Nanostructures and Their Optical Properties: From Nanoparticles to Nanorods, Nanowires, and Nanotubes. ChemNanoMat, 2016, 2, 167-170.	2.8	61
22	One-Pot Colloidal Chemistry Route to Homogeneous and Doped Colloidosomes. Journal of the American Chemical Society, 2013, 135, 12928-12931.	13.7	60
23	Template- and surfactant-free synthesis of ultrathin CeO₂ nanowires in a mixed solvent and their superior adsorption capability for water treatment. Chemical Science, 2015, 6, 2511-2515.	7.4	60
24	A General Strategy for Selfâ€Assembly of Nanosized Building Blocks on Liquid/Liquid Interfaces. Small, 2012, 8, 2412-2420.	10.0	57
25	A new generation of alloyed/multimetal chalcogenide nanowires by chemical transformation. Science Advances, 2015, 1, e1500714.	10.3	57
26	One-pot synthesis of branched palladium nanodendrites with superior electrocatalytic performance. Nanoscale, 2013, 5, 3202.	5.6	56
27	Surface functionalization and structure characterizations of nanodiamond and its epoxy based nanocomposites. Composites Part B: Engineering, 2015, 78, 480-487.	12.0	56
28	Anti-biofouling double-layered unidirectional scaffold for long-term solar-driven water evaporation. Journal of Materials Chemistry A, 2019, 7, 16696-16703.	10.3	55
29	First sub-kilogram-scale synthesis of high quality ultrathin tellurium nanowires. Materials Horizons, 2014, 1, 338.	12.2	50
30	Mass Production of Nanowire-Nylon Flexible Transparent Smart Windows for PM2.5 Capture. IScience, 2019, 12, 333-341.	4.1	45
31	Nanowire Genome: A Magic Toolbox for 1D Nanostructures. Advanced Materials, 2019, 31, e1902807.	21.0	44
32	Manipulating Nanowire Assemblies toward Multicolor Transparent Electrochromic Device. Nano Letters, 2021, 21, 9203-9209.	9.1	39
33	Ordered Nanostructure Enhances Electrocatalytic Performance by Directional Micro-Electric Field. Journal of the American Chemical Society, 2019, 141, 10729-10735.	13.7	38
34	Biomimetic Difunctional Carbon-Nanotube-Based Aerogels for Efficient Steam Generation. ACS Applied Nano Materials, 2020, 3, 4690-4698.	5.0	38
35	Potassium Ion Assisted Synthesis of Organicâ€“Inorganic Hybrid Perovskite Nanobelts for Stable and Flexible Photodetectors. Advanced Optical Materials, 2018, 6, 1701029.	7.3	37
36	Ultrathin Heteroâ€Nanowireâ€Based Flexible Electronics with Tunable Conductivity. Advanced Materials, 2013, 25, 5910-5915.	21.0	36

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37	A Family of Carbon-Based Nanocomposite Tubular Structures Created by in Situ Electron Beam Irradiation. ACS Nano, 2012, 6, 4500-4507.	14.6	34
38	Co-assembled thin films of Ag nanowires and functional nanoparticles at the liquidâ€“liquid interface by shaking. Nanoscale, 2013, 5, 4223.	5.6	34
39	A room-temperature environmentally friendly solution process to assemble silver nanowire architectures for flexible transparent electrodes. Nanoscale, 2017, 9, 52-55.	5.6	33
40	Strong and stiff Ag nanowire-chitosan composite films reinforced by Agâ€“S covalent bonds. Nano Research, 2018, 11, 410-419.	10.4	29
41	Palladium Nanoparticles Supported on Titanate Nanobelts for Solventâ€Free Aerobic Oxidation of Alcohols. ChemCatChem, 2015, 7, 4131-4136.	3.7	28
42	Recycling Nanowire Templates for Multiplex Templating Synthesis: A Green and Sustainable Strategy. Chemistry - A European Journal, 2015, 21, 4935-4939.	3.3	27
43	Microchemical Engineering in a 3D Ordered Channel Enhances Electrocatalysis. Journal of the American Chemical Society, 2021, 143, 12600-12608.	13.7	25
44	Phaseâ€Selective Syntheses of Cobalt Telluride Nanofleeces for Efficient Oxygen Evolution Catalysts. Angewandte Chemie, 2017, 129, 7877-7881.	2.0	24
45	Structureâ€“property relationship of assembled nanowire materials. Materials Chemistry Frontiers, 2020, 4, 2881-2903.	5.9	24
46	A surfactant-free route to synthesize Ba x Sr1â^'x TiO3 nanoparticles at room temperature, their dielectric and microwave absorption properties. Science China Materials, 2016, 59, 609-617.	6.3	22
47	Three-dimensional melamine sponge loaded with Au/ceria nanowires for continuous reduction of p-nitrophenol in a consecutive flow system. Science Bulletin, 2016, 61, 700-705.	9.0	21
48	Ultrathin Tungsten Oxide Nanowires/Reduced Graphene Oxide Composites for Toluene Sensing. Sensors, 2017, 17, 2245.	3.8	18
49	Interfacial state induced ultrasensitive ultraviolet light photodetector with resolved flux down to 85 photons per second. Nano Research, 2015, 8, 1098-1107.	10.4	17
50	Structural Design of Nanowire Wearable Stretchable Thermoelectric Generator. Nano Letters, 2022, 22, 4131-4136.	9.1	17
51	Stability and protection of nanowire devices in air. Nano Research, 2018, 11, 3353-3361.	10.4	16
52	Recycling Valuable Elements from the Chemical Synthesis Process of Nanomaterials: A Sustainable View. , 2019, 1, 541-548.		16
53	Radial Nanowire Assemblies under Rotating Magnetic Field Enabled Efficient Charge Separation. Nano Letters, 2020, 20, 2763-2769.	9.1	16
54	Adaptive PID and Model Reference Adaptive Control Switch Controller for Nonlinear Hydraulic Actuator. Mathematical Problems in Engineering, 2017, 2017, 1-15.	1.1	15

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55	Realâ€Time Probing of Nanowire Assembly Kinetics at the Airâ€“Water Interface by Inâ€…Situ Synchrotron Xâ€Ray Scattering. Angewandte Chemie - International Edition, 2018, 57, 8130-8134.	13.8	14
56	Self-Assembly of Nanowires: From Dynamic Monitoring to Precision Control. Accounts of Chemical Research, 2022, 55, 1480-1491.	15.6	12
57	Composition Modulation of Pt-Based Nanowire Electrocatalysts Enhances Methanol Oxidation Performance. Inorganic Chemistry, 2020, 59, 1376-1382.	4.0	11
58	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
59	Templating synthesis of ternary PtPdTe nanowires with tunable diameter for methanol electrooxidation. CrystEngComm, 2016, 18, 4038-4041.	2.6	9
60	Synthesis of PdS _x -Mediated Polydymite Heteronanorods and Their Long-Range Activation for Enhanced Water Electroreduction. Research, 2019, 2019, 8078549.	5.7	9
61	Emergent motifs of macroscopic nanowire assemblies. National Science Review, 2015, 2, 392-393.	9.5	8
62	Recycling valuable silver from waste generated in diverse nanotemplate reactions. Science China Materials, 2016, 59, 538-546.	6.3	8
63	Mass-production of flexible and transparent Te-Au nylon SERS substrate with excellent mechanical stability. Nano Research, 2019, 12, 1483-1488.	10.4	8
64	Manipulating Nanowire Structures for an Enhanced Broad-Band Flexible Photothermoelectric Photodetector. Nano Letters, 2022, 22, 5929-5935.	9.1	8
65	Surfactant-free synthesis of SrTiO₃ hierarchical structures in ethanol/water mixed solvent at room temperature. CrystEngComm, 2015, 17, 6895-6900.	2.6	7
66	Chloride Anion Triggered Synthesis and Assembly of Gold Nanoparticleâ€Ultrathin Cadmium Selenide Nanowire Networks with Enhanced Photoconductivity. Particle and Particle Systems Characterization, 2013, 30, 97-101.	2.3	6
67	Enhanced H2 evolution reaction due to H spillover during electrolytic reduction of water on a Au/TiO2 electrode. Electrochemistry Communications, 2021, 129, 107085.	4.7	6
68	Online Learning Algorithm Based on Adaptive Control Theory. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 2278-2293.	11.3	5
69	Coiling ultrathin tellurium nanowires into nanorings by Pickering emulsion. Chemical Communications, 2016, 52, 8091-8094.	4.1	4
70	Selfâ€Assembly Anisotropic Magnetic Nanowire Films Induced by External Magnetic Field. ChemistryOpen, 2020, 9, 588-592.	1.9	4
71	Realâ€Time Probing of Nanowire Assembly Kinetics at the Airâ€“Water Interface by Inâ€…Situ Synchrotron Xâ€Ray Scattering. Angewandte Chemie, 2018, 130, 8262-8266.	2.0	3
72	Necklace-like ultrathin silver telluride nanowire films and their reversible structural phase transition. Chemical Communications, 2021, 57, 6887-6890.	4.1	3

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73	A Metallic Ionâ€Induced Selfâ€Assembly Enabling Nanowireâ€Based Aerogels. Small, 2021, 17, e2103406.	10.0	3
74	Flexible Electronics: Ultrathin Hetero-Nanowire-Based Flexible Electronics with Tunable Conductivity (Adv. Mater. 41/2013). Advanced Materials, 2013, 25, 5909-5909.	21.0	2
75	Multi-View Capsule Network. Lecture Notes in Computer Science, 2019, , 152-165.	1.3	2
76	DDRM-CapsNet: Capsule Network Based on Deep Dynamic Routing Mechanism for Complex Data. Lecture Notes in Computer Science, 2019, , 178-189.	1.3	2
77	Nanowire Networks: Chloride Anion Triggered Synthesis and Assembly of Gold Nanoparticleâ€Ultrathin Cadmium Selenide Nanowire Networks with Enhanced Photoconductivity (Part. Part. Syst. Charact.) Tj ETQq1 1 0.784314 rgBT /Overlo	2.4	2
78	Binder/Collectorâ€Free Te Cathodes: Elastic Carbon Nanotube Aerogel Meets Tellurium Nanowires: A Binderâ€•and Collectorâ€Free Electrode for Liâ€Te Batteries (Adv. Funct. Mater. 21/2016). Advanced Functional Materials, 2016, 26, 3747-3747.	14.9	0
79	Interface-Induced Macroscopic Nanowire Assemblies. Springer Theses, 2017, , 39-55.	0.1	0
80	Applications of the Nanowire Assemblies. Springer Theses, 2017, , 67-82.	0.1	0
81	Electron-Beam-Induced Nanowire Assemblies. Springer Theses, 2017, , 57-65.	0.1	0
82	A Metallic Ionâ€Induced Selfâ€Assembly Enabling Nanowireâ€Based Aerogels (Small 44/2021). Small, 2021, 17, 2170231.	10.0	0