

# Jinhui Song

## List of Publications by Year in descending order

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79  
papers

15,774  
citations

76196

40  
h-index

69108

77  
g-index

80  
all docs

80  
docs citations

80  
times ranked

14823  
citing authors

#	ARTICLE	IF	CITATIONS
1	Silver Nanotube Networks with Ultrahigh Strain Limit as Reliable Flexible Transparent Electrode and Tactile Sensor. <i>Advanced Engineering Materials</i> , 2022, 24, 2100832.	1.6	5
2	Nanoconfinement induced electroluminescence spectrum shift in organic light-emitting diodes. <i>Chemical Physics</i> , 2022, 554, 111417.	0.9	3
3	Near-Infrared to Visible Light Converter by Integrating Graphene Transistor into Perovskite Quantum Dot Light Emitting Diodes. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	3
4	Formation mechanism of the pinholes in brown glazed stoneware from Yaozhou kiln. <i>Archaeometry</i> , 2022, 64, 644-654.	0.6	5
5	Dynamic photonic perovskite light-emitting diodes with post-treatment-enhanced crystallization as writable and wipeable inscribers. <i>Nanoscale Advances</i> , 2021, 3, 6659-6668.	2.2	9
6	Recent advances in MXene-based force sensors: a mini-review. <i>RSC Advances</i> , 2021, 11, 19169-19184.	1.7	12
7	Development and current situation of flexible and transparent EM shielding materials. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 25603-25630.	1.1	20
8	Recent mechanical processing techniques of two-dimensional layered materials: A review. <i>Journal of Science: Advanced Materials and Devices</i> , 2021, 6, 135-152.	1.5	11
9	A color-tunable and high-effective organic light-emitting diode device with forward-inverse structure as intelligent lighting display. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 22309-22318.	1.1	6
10	Recent progress in multifunctional hydrogel-based supercapacitors. <i>Journal of Science: Advanced Materials and Devices</i> , 2021, 6, 338-350.	1.5	19
11	60Ånm Pixel-size pressure piezo-memory system as ultrahigh-resolution neuromorphic tactile sensor for in-chip computing. <i>Nano Energy</i> , 2021, 87, 106190.	8.2	21
12	Study on the catalyst effect of NaCl on MoS <sub>2</sub> growth in a chemical vapor deposition process. <i>CrystEngComm</i> , 2021, 23, 5337-5344.	1.3	18
13	A high-performance bionic pressure memory device based on piezo-OLED and piezo-memristor as luminescence-fish neuromorphic tactile system. <i>Nano Energy</i> , 2020, 77, 105120.	8.2	41
14	Silver nanowire networks with preparations and applications: a review. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 15669-15696.	1.1	54
15	High-Dynamic-Range Pressure Mapping Interactions by Dual Piezo-Phototronic Transistor with Piezo-Nanowire Channels and Piezo-OLED Gates. <i>Advanced Functional Materials</i> , 2020, 30, 2004724.	7.8	14
16	Performance of OLED under mechanical strain: a review. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 20688-20729.	1.1	52
17	Hyaline and stretchable haptic interfaces based on serpentine-shaped silver nanofiber networks. <i>Nano Energy</i> , 2020, 73, 104782.	8.2	37
18	Realization of Nanostroke with a Violet-Light-Emitting Device with High Monochromaticity. <i>ACS Applied Nano Materials</i> , 2019, 2, 4804-4809.	2.4	3

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19	High Performance Vertical Resonant Photo-Effect-Transistor with an All-Around OLED-Gate for Ultra-Electromagnetic Stability. ACS Nano, 2019, 13, 8425-8432.	7.3	27
20	Paper-like Foldable Nanowave Circuit with Ultralarge Curvature and Ultrahigh Stability. ACS Applied Materials & Interfaces, 2019, 11, 43368-43375.	4.0	18
21	Atomic Layer Dependence of Shear Modulus in a Two-Dimensional Single-Crystal Organic-Inorganic Hybrid Perovskite. Journal of Physical Chemistry C, 2019, 123, 15251-15257.	1.5	13
22	Size-dependent Young's modulus in ZnO nanowires with strong surface atomic bonds. Nanotechnology, 2018, 29, 125702.	1.3	17
23	High-efficiency piezoelectric micro harvester for collecting low-frequency mechanical energy. Nanotechnology, 2016, 27, 485402.	1.3	6
24	Photoelectric Property Modulation by Nanoconfinement in the Longitude Direction of Short Semiconducting Nanorods. ACS Applied Materials & Interfaces, 2016, 8, 11001-11007.	4.0	11
25	The Experiment and Simulation Method to Calibrate the Shear Modulus of Individual ZnO Nanorod. Journal of Nanoscience and Nanotechnology, 2016, 16, 4040-4043.	0.9	5
26	High output nano-energy cell with piezoelectric nanogenerator and porous supercapacitor dual functions – A technique to provide sustaining power by harvesting intermittent mechanical energy from surroundings. Nano Energy, 2016, 21, 209-216.	8.2	35
27	An Ultrahigh-Resolution Digital Image Sensor with Pixel Size of 50 nm by Vertical Nanorod Arrays. Advanced Materials, 2015, 27, 4454-4460.	11.1	45
28	Flexible supercapacitors based on carbon nanotube/MnO <sub>2</sub> nanotube hybrid porous films for wearable electronic devices. , 2015, , .		0
29	The Smallest Resonator Arrays in Atmosphere by Chip-Size-Grown Nanowires with Tunable $Q$ -factor and Frequency for Subnanometer Thickness Detection. Nano Letters, 2015, 15, 1128-1134.	4.5	21
30	Elastic properties of van der Waals epitaxy grown bismuth telluride 2D nanosheets. Nanoscale, 2015, 7, 11915-11921.	2.8	43
31	Growth and spectroscopic properties of Ti-doped sapphire single-crystal fibers. Optical Materials, 2015, 47, 495-500.	1.7	7
32	Nanowires for Piezoelectric Nanogenerators. RSC Smart Materials, 2014, , 200-276.	0.1	0
33	Selective adsorption of bismuth telluride nanoplatelets through electrostatic attraction. Physical Chemistry Chemical Physics, 2014, 16, 11297-11302.	1.3	7
34	Large-Scale Fabrication of Pseudocapacitive Glass Windows that Combine Electrochromism and Energy Storage. Angewandte Chemie - International Edition, 2014, 53, 11935-11939.	7.2	207
35	Flexible supercapacitors based on carbon nanotube/MnO <sub>2</sub> nanotube hybrid porous films for wearable electronic devices. Journal of Materials Chemistry A, 2014, 2, 17561-17567.	5.2	132
36	Significant Photoelectric Property Change Caused by Additional Nano-confinement: A Study of Half-Dimensional Nanomaterials. Small, 2014, 10, 5042-5046.	5.2	18

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37	Reciprocal alternate deposition strategy using metal oxide/carbon nanotube for positive and negative electrodes of high-performance supercapacitors. <i>Nano Energy</i> , 2014, 10, 108-116.	8.2	60
38	Physical model construction for electrical anisotropy of single crystal zinc oxide micro/nanobelt using finite element method. <i>Applied Physics Letters</i> , 2014, 104, 153109.	1.5	4
39	Shear Modulus Property Characterization of Nanorods. <i>Nano Letters</i> , 2013, 13, 111-115.	4.5	20
40	Controllable growth of laterally aligned zinc oxide nanorod arrays on a selected surface of the silicon substrate by a catalyst-free vapor solid process – a technique for growing nanocircuits. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 13532.	1.3	23
41	Nonlinear length dependent electrical resistance of a single crystal zinc oxide micro/nanobelt. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 8222.	1.3	9
42	Role of graphene in great enhancement of photocatalytic activity of ZnO nanoparticle-graphene hybrids. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013, 47, 279-284.	1.3	43
43	STUDYING THE MECHANISM OF PIEZOELECTRIC NANOGENERATORS. <i>World Scientific Series in Nanoscience and Nanotechnology</i> , 2013, , 557-590.	0.1	0
44	Enhanced wettability performance of ultrathin ZnO nanotubes by coupling morphology and size effects. <i>Nanoscale</i> , 2012, 4, 5755.	2.8	36
45	Polar Charges Induced Electric Hysteresis of ZnO Nano/Microwire for Fast Data Storage. <i>Nano Letters</i> , 2011, 11, 2829-2834.	4.5	102
46	Anisotropic Outputs of a Nanogenerator from Oblique-Aligned ZnO Nanowire Arrays. <i>ACS Nano</i> , 2011, 5, 6707-6713.	7.3	56
47	Study of the Piezoelectric Power Generation of ZnO Nanowire Arrays Grown by Different Methods. <i>Advanced Functional Materials</i> , 2011, 21, 628-633.	7.8	114
48	Contact materials for nanowire devices and nanoelectromechanical switches. <i>MRS Bulletin</i> , 2011, 36, 106-111.	1.7	6
49	Robust optimization of the output voltage of nanogenerators by statistical design of experiments. <i>Nano Research</i> , 2010, 3, 613-619.	5.8	21
50	Electricity Generation based on One-Dimensional Group-III Nitride Nanomaterials. <i>Advanced Materials</i> , 2010, 22, 2155-2158.	11.1	135
51	Single-InN Nanowire Nanogenerator with Upto 1 V Output Voltage. <i>Advanced Materials</i> , 2010, 22, 4008-4013.	11.1	169
52	GaN Nanowire Arrays for High-Output Nanogenerators. <i>Journal of the American Chemical Society</i> , 2010, 132, 4766-4771.	6.6	284
53	Near UV LEDs Made with in Situ Doped p-n Homojunction ZnO Nanowire Arrays. <i>Nano Letters</i> , 2010, 10, 4387-4393.	4.5	198
54	Growth and replication of ordered ZnO nanowire arrays on general flexible substrates. <i>Journal of Materials Chemistry</i> , 2010, 20, 10606.	6.7	69

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55	ZnO/ZnS Heterojunction and ZnS Nanowire Arrays for Electricity Generation. ACS Nano, 2009, 3, 357-362.	7.3	256
56	Controlled Growth of Aligned Polymer Nanowires. Journal of Physical Chemistry C, 2009, 113, 16571-16574.	1.5	100
57	Single-Crystal Mesoporous ZnO Thin Films Composed of Nanowalls. Journal of Physical Chemistry C, 2009, 113, 1791-1794.	1.5	65
58	Growth of ZnO nanotube arrays and nanotube based piezoelectric nanogenerators. Journal of Materials Chemistry, 2009, 19, 9260.	6.7	181
59	Quantifying the Traction Force of a Single Cell by Aligned Silicon Nanowire Array. Nano Letters, 2009, 9, 3575-3580.	4.5	115
60	Piezoelectric Nanogenerator Using p-Type ZnO Nanowire Arrays. Nano Letters, 2009, 9, 1223-1227.	4.5	390
61	Piezoelectric Potential Gated Field-Effect Transistor Based on a Free-Standing ZnO Wire. Nano Letters, 2009, 9, 3435-3439.	4.5	132
62	Alternating the Output of a CdS Nanowire Nanogenerator by a White-Light-Stimulated Optoelectronic Effect. Advanced Materials, 2008, 20, 3127-3130.	11.1	207
63	Piezoelectric Nanogenerators for Self-Powered Nanodevices. IEEE Pervasive Computing, 2008, 7, 49-55.	1.1	72
64	Carrier Density and Schottky Barrier on the Performance of DC Nanogenerator. Nano Letters, 2008, 8, 328-332.	4.5	142
65	Piezoelectric Potential Output from ZnO Nanowire Functionalized with p-Type Oligomer. Nano Letters, 2008, 8, 203-207.	4.5	73
66	Piezoelectric nanogenerator using CdS nanowires. Applied Physics Letters, 2008, 92, .	1.5	248
67	Mechanical and magnetic properties of Ni-doped metallic TaSi <sub>2</sub> nanowires. Nanotechnology, 2007, 18, 145604.	1.3	8
68	Integrated Nanogenerators in Biofluid. Nano Letters, 2007, 7, 2475-2479.	4.5	155
69	Direct-Current Nanogenerator Driven by Ultrasonic Waves. Science, 2007, 316, 102-105.	6.0	2,065
70	Nanowire and nanobelt arrays of zinc oxide from synthesis to properties and to novel devices. Journal of Materials Chemistry, 2007, 17, 711.	6.7	261
71	Vertically Aligned Zn <sub>2</sub> SiO <sub>4</sub> Nanotube/ZnO Nanowire Heterojunction Arrays. Small, 2007, 3, 622-626.	5.2	78
72	Piezoelectric and Semiconducting Coupled Power Generating Process of a Single ZnO Belt/Wire. A Technology for Harvesting Electricity from the Environment. Nano Letters, 2006, 6, 1656-1662.	4.5	384

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73	Piezoelectric Field Effect Transistor and Nanoforce Sensor Based on a Single ZnO Nanowire. Nano Letters, 2006, 6, 2768-2772.	4.5	983
74	Density-Controlled Growth of Aligned ZnO Nanowires Sharing a Common Contact: A Simple, Low-Cost, and Mask-Free Technique for Large-Scale Applications. Journal of Physical Chemistry B, 2006, 110, 7720-7724.	1.2	120
75	Piezoelectric Nanogenerators Based on Zinc Oxide Nanowire Arrays. Science, 2006, 312, 242-246.	6.0	6,691
76	Single-crystal nanocastles of ZnO. Chemical Physics Letters, 2006, 424, 86-90.	1.2	81
77	Elastic Property of Vertically Aligned Nanowires. Nano Letters, 2005, 5, 1954-1958.	4.5	280
78	Growth of Uniformly Aligned ZnO Nanowire Heterojunction Arrays on GaN, AlN, and Al <sub>0.5</sub> Ga <sub>0.5</sub> N Substrates. Journal of the American Chemical Society, 2005, 127, 7920-7923.	6.6	244
79	Systematic Study on Experimental Conditions for Large-Scale Growth of Aligned ZnO Nanowires on Nitrides. Journal of Physical Chemistry B, 2005, 109, 9869-9872.	1.2	124