

Jinhui Song

List of Publications by Year in descending order

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79
papers

15,774
citations

76196

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69108

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docs citations

80
times ranked

14823
citing authors

#	ARTICLE	IF	CITATIONS
1	Piezoelectric Nanogenerators Based on Zinc Oxide Nanowire Arrays. <i>Science</i> , 2006, 312, 242-246.	6.0	6,691
2	Direct-Current Nanogenerator Driven by Ultrasonic Waves. <i>Science</i> , 2007, 316, 102-105.	6.0	2,065
3	Piezoelectric Field Effect Transistor and Nanoforce Sensor Based on a Single ZnO Nanowire. <i>Nano Letters</i> , 2006, 6, 2768-2772.	4.5	983
4	Piezoelectric Nanogenerator Using p-Type ZnO Nanowire Arrays. <i>Nano Letters</i> , 2009, 9, 1223-1227.	4.5	390
5	Piezoelectric and Semiconducting Coupled Power Generating Process of a Single ZnO Belt/Wire. A Technology for Harvesting Electricity from the Environment. <i>Nano Letters</i> , 2006, 6, 1656-1662.	4.5	384
6	GaN Nanowire Arrays for High-Output Nanogenerators. <i>Journal of the American Chemical Society</i> , 2010, 132, 4766-4771.	6.6	284
7	Elastic Property of Vertically Aligned Nanowires. <i>Nano Letters</i> , 2005, 5, 1954-1958.	4.5	280
8	Nanowire and nanobelt arrays of zinc oxide from synthesis to properties and to novel devices. <i>Journal of Materials Chemistry</i> , 2007, 17, 711.	6.7	261
9	ZnO/ZnS Heterojunction and ZnS Nanowire Arrays for Electricity Generation. <i>ACS Nano</i> , 2009, 3, 357-362.	7.3	256
10	Piezoelectric nanogenerator using CdS nanowires. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	248
11	Growth of Uniformly Aligned ZnO Nanowire Heterojunction Arrays on GaN, AlN, and Al _{0.5} Ga _{0.5} N Substrates. <i>Journal of the American Chemical Society</i> , 2005, 127, 7920-7923.	6.6	244
12	Alternating the Output of a CdS Nanowire Nanogenerator by a White-Light-Stimulated Optoelectronic Effect. <i>Advanced Materials</i> , 2008, 20, 3127-3130.	11.1	207
13	Large-Scale Fabrication of Pseudocapacitive Glass Windows that Combine Electrochromism and Energy Storage. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 11935-11939.	7.2	207
14	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
15	Growth of ZnO nanotube arrays and nanotube based piezoelectric nanogenerators. <i>Journal of Materials Chemistry</i> , 2009, 19, 9260.	6.7	181
16	Single-Crystal Nanowire Nanogenerator with Upto 1 V Output Voltage. <i>Advanced Materials</i> , 2010, 22, 4008-4013.	11.1	169
17	Integrated Nanogenerators in Biofluid. <i>Nano Letters</i> , 2007, 7, 2475-2479.	4.5	155
18	Carrier Density and Schottky Barrier on the Performance of DC Nanogenerator. <i>Nano Letters</i> , 2008, 8, 328-332.	4.5	142

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19	Electricity Generation based on One-Dimensional Group-III Nitride Nanomaterials. <i>Advanced Materials</i> , 2010, 22, 2155-2158.	11.1	135
20	Piezoelectric Potential Gated Field-Effect Transistor Based on a Free-Standing ZnO Wire. <i>Nano Letters</i> , 2009, 9, 3435-3439.	4.5	132
21	Flexible supercapacitors based on carbon nanotube/MnO ₂ nanotube hybrid porous films for wearable electronic devices. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17561-17567.	5.2	132
22	Systematic Study on Experimental Conditions for Large-Scale Growth of Aligned ZnO Nanowires on Nitrides. <i>Journal of Physical Chemistry B</i> , 2005, 109, 9869-9872.	1.2	124
23	Density-Controlled Growth of Aligned ZnO Nanowires Sharing a Common Contact: A Simple, Low-Cost, and Mask-Free Technique for Large-Scale Applications. <i>Journal of Physical Chemistry B</i> , 2006, 110, 7720-7724.	1.2	120
24	Quantifying the Traction Force of a Single Cell by Aligned Silicon Nanowire Array. <i>Nano Letters</i> , 2009, 9, 3575-3580.	4.5	115
25	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
26	Polar Charges Induced Electric Hysteresis of ZnO Nano/Microwire for Fast Data Storage. <i>Nano Letters</i> , 2011, 11, 2829-2834.	4.5	102
27	Controlled Growth of Aligned Polymer Nanowires. <i>Journal of Physical Chemistry C</i> , 2009, 113, 16571-16574.	1.5	100
28	Single-crystal nanocastles of ZnO. <i>Chemical Physics Letters</i> , 2006, 424, 86-90.	1.2	81
29	Vertically Aligned Zn ₂ SiO ₄ Nanotube/ZnO Nanowire Heterojunction Arrays. <i>Small</i> , 2007, 3, 622-626.	5.2	78
30	Piezoelectric Potential Output from ZnO Nanowire Functionalized with p-Type Oligomer. <i>Nano Letters</i> , 2008, 8, 203-207.	4.5	73
31	Piezoelectric Nanogenerators for Self-Powered Nanodevices. <i>IEEE Pervasive Computing</i> , 2008, 7, 49-55.	1.1	72
32	Growth and replication of ordered ZnO nanowire arrays on general flexible substrates. <i>Journal of Materials Chemistry</i> , 2010, 20, 10606.	6.7	69
33	Single-Crystal Mesoporous ZnO Thin Films Composed of Nanowalls. <i>Journal of Physical Chemistry C</i> , 2009, 113, 1791-1794.	1.5	65
34	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
35	Anisotropic Outputs of a Nanogenerator from Oblique-Aligned ZnO Nanowire Arrays. <i>ACS Nano</i> , 2011, 5, 6707-6713.	7.3	56
36	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

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37	Performance of OLED under mechanical strain: a review. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 20688-20729.	1.1	52
38	An Ultrahigh-Resolution Digital Image Sensor with Pixel Size of 50 nm by Vertical Nanorod Arrays. <i>Advanced Materials</i> , 2015, 27, 4454-4460.	11.1	45
39	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
40	Elastic properties of van der Waals epitaxy grown bismuth telluride 2D nanosheets. <i>Nanoscale</i> , 2015, 7, 11915-11921.	2.8	43
41	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
42	Hyaline and stretchable haptic interfaces based on serpentine-shaped silver nanofiber networks. <i>Nano Energy</i> , 2020, 73, 104782.	8.2	37
43	Enhanced wettability performance of ultrathin ZnO nanotubes by coupling morphology and size effects. <i>Nanoscale</i> , 2012, 4, 5755.	2.8	36
44	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. <i>Nano Energy</i> , 2016, 21, 209-216.	8.2	35
45	High Performance Vertical Resonant Photo-Effect-Transistor with an All-Around OLED-Gate for Ultra-Electromagnetic Stability. <i>ACS Nano</i> , 2019, 13, 8425-8432.	7.3	27
46	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
47	Robust optimization of the output voltage of nanogenerators by statistical design of experiments. <i>Nano Research</i> , 2010, 3, 613-619.	5.8	21
48	The Smallest Resonator Arrays in Atmosphere by Chip-Size-Grown Nanowires with Tunable Q -factor and Frequency for Subnanometer Thickness Detection. <i>Nano Letters</i> , 2015, 15, 1128-1134.	4.5	21
49	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
50	Shear Modulus Property Characterization of Nanorods. <i>Nano Letters</i> , 2013, 13, 111-115.	4.5	20
51	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
52	Recent progress in multifunctional hydrogel-based supercapacitors. <i>Journal of Science: Advanced Materials and Devices</i> , 2021, 6, 338-350.	1.5	19
53	Significant Photoelectric Property Change Caused by Additional Nano-confinement: A Study of Half-Dimensional Nanomaterials. <i>Small</i> , 2014, 10, 5042-5046.	5.2	18
54	Paper-like Foldable Nanowave Circuit with Ultralarge Curvature and Ultrahigh Stability. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 43368-43375.	4.0	18

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55	Study on the catalyst effect of NaCl on MoS ₂ growth in a chemical vapor deposition process. CrystEngComm, 2021, 23, 5337-5344.	1.3	18
56	Size-dependent Young's modulus in ZnO nanowires with strong surface atomic bonds. Nanotechnology, 2018, 29, 125702.	1.3	17
57	High-Dynamic-Range Pressure Mapping Interactions by Dual Piezo-Phototronic Transistor with Piezo-Nanowire Channels and Piezo-OLED Gates. Advanced Functional Materials, 2020, 30, 2004724.	7.8	14
58	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
59	Recent advances in MXene-based force sensors: a mini-review. RSC Advances, 2021, 11, 19169-19184.	1.7	12
60	Photoelectric Property Modulation by Nanoconfinement in the Longitude Direction of Short Semiconducting Nanorods. ACS Applied Materials & Interfaces, 2016, 8, 11001-11007.	4.0	11
61	Recent mechanical processing techniques of two-dimensional layered materials: A review. Journal of Science: Advanced Materials and Devices, 2021, 6, 135-152.	1.5	11
62	Nonlinear length dependent electrical resistance of a single crystal zinc oxide micro/nanobelt. Physical Chemistry Chemical Physics, 2013, 15, 8222.	1.3	9
63	Dynamic photonic perovskite light-emitting diodes with post-treatment-enhanced crystallization as writable and wipeable inscribers. Nanoscale Advances, 2021, 3, 6659-6668.	2.2	9
64	Mechanical and magnetic properties of Ni-doped metallic TaSi ₂ nanowires. Nanotechnology, 2007, 18, 145604.	1.3	8
65	Selective adsorption of bismuth telluride nanoplatelets through electrostatic attraction. Physical Chemistry Chemical Physics, 2014, 16, 11297-11302.	1.3	7
66	Growth and spectroscopic properties of Ti-doped sapphire single-crystal fibers. Optical Materials, 2015, 47, 495-500.	1.7	7
67	Contact materials for nanowire devices and nanoelectromechanical switches. MRS Bulletin, 2011, 36, 106-111.	1.7	6
68	High-efficiency piezoelectric micro harvester for collecting low-frequency mechanical energy. Nanotechnology, 2016, 27, 485402.	1.3	6
69	A color-tunable and high-effective organic light-emitting diode device with forward-inverse structure as intelligent lighting display. Journal of Materials Science: Materials in Electronics, 2021, 32, 22309-22318.	1.1	6
70	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
71	Silver Nanotube Networks with Ultrahigh Strain Limit as Reliable Flexible Transparent Electrode and Tactile Sensor. Advanced Engineering Materials, 2022, 24, 2100832.	1.6	5
72	Formation mechanism of the pinholes in brown glazed stoneware from Yaozhou kiln. Archaeometry, 2022, 64, 644-654.	0.6	5

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73	Physical model construction for electrical anisotropy of single crystal zinc oxide micro/nanobelt using finite element method. Applied Physics Letters, 2014, 104, 153109.	1.5	4
74	Realization of Nanostroke with a Violet-Light-Emitting Device with High Monochromaticity. ACS Applied Nano Materials, 2019, 2, 4804-4809.	2.4	3
75	Nanoconfinement induced electroluminescence spectrum shift in organic light-emitting diodes. Chemical Physics, 2022, 554, 111417.	0.9	3
76	Near-Infrared to Visible Light Converter by Integrating Graphene Transistor into Perovskite Quantum Dot Light Emitting Diodes. Advanced Materials Technologies, 2022, 7, .	3.0	3
77	STUDYING THE MECHANISM OF PIEZOELECTRIC NANOGENERATORS. World Scientific Series in Nanoscience and Nanotechnology, 2013, , 557-590.	0.1	0
78	Nanowires for Piezoelectric Nanogenerators. RSC Smart Materials, 2014, , 200-276.	0.1	0
79	Flexible supercapacitors based on carbon nanotube/MnO2 nanotube hybrid porous films for wearable electronic devices. , 2015, , .		0