

# Jing Liu

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

426  
citations

932766

10  
h-index

794141

19  
g-index

51  
all docs

51  
docs citations

51  
times ranked

374  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Integrated microcircuit on a diamond anvil for high-pressure electrical resistivity measurement. Applied Physics Letters, 2005, 86, 064104.  | 1.5 | 76        |
| 2  | Fabrication and reflection properties of silicon nanopillars by cesium chloride self-assembly and dry etching. Applied Surface Science, 2012, 258, 8825-8830.  | 3.1 | 37        |
| 3  | Fabrication of micro-nano surface texture by CsCl lithography with antireflection and photoelectronic properties for solar cells. Solar Energy Materials and Solar Cells, 2013, 108, 93-97.  | 3.0 | 36        |
| 4  | New diamond anvil cell system for in situ resistance measurement under extreme conditions. Review of Scientific Instruments, 2006, 77, 123902.   | 0.6 | 28        |
| 5  | Realization of radial p-n junction silicon nanowire solar cell based on low-temperature and shallow phosphorus doping. Nanoscale Research Letters, 2013, 8, 544.   | 3.1 | 23        |
| 6  | Fabrication and photosensitivity of CdS photoresistor on silica nanopillars substrate. Materials Science in Semiconductor Processing, 2016, 56, 217-221.   | 1.9 | 23        |
| 7  | Fabrication and properties of ZnO nanorods on silicon nanopillar surface for gas sensor application. Journal of Materials Science: Materials in Electronics, 2019, 30, 11404-11411.  | 1.1 | 18        |
| 8  | Fabrication of silicon nanopillar arrays by cesium chloride self-assembly and wet electrochemical etching for solar cell. Applied Surface Science, 2014, 289, 300-305.   | 3.1 | 13        |
| 9  | Fabrication of inverted pyramid structure by Cesium Chloride self-assembly lithography for silicon solar cell. Materials Science in Semiconductor Processing, 2015, 40, 44-49.   | 1.9 | 12        |
| 10 | Design and property study of micro-slot optics. Optics Communications, 2017, 386, 14-21.   | 1.0 | 11        |
| 11 | Preparation of CdS nanorods on silicon nanopillars surface by hydrothermal method. Materials Research Bulletin, 2019, 120, 110591.   | 2.7 | 11        |
| 12 | Fabrication and Photovoltaic Properties of Silicon Solar Cells with Different Diameters and Heights of Nanopillars. Energy Technology, 2013, 1, 139-143.   | 1.8 | 9         |
| 13 | Fabrication of tree-like CdS nanorods-Si pillars structure for photosensitive application. Journal of Materials Science: Materials in Electronics, 2020, 31, 11862-11869.  | 1.1 | 9         |
| 14 | Fabrication and antireflection properties of solar cells with pyramid-like nanohole texture by cesium chloride lithography. Journal Physics D: Applied Physics, 2013, 46, 375302.  | 1.3 | 8         |
| 15 | Fabrication of micro pore optics with smooth sidewall using X-ray lithography. Microsystem Technologies, 2014, 20, 2005-2010.  | 1.2 | 8         |
| 16 | Sub-500-nm hard x ray focusing by compound long kinoform lenses. Applied Optics, 2016, 55, 38.   | 2.1 | 7         |
| 17 | Fabrication and photovoltaic effect of ZnO/silicon nanopillars heterojunction solar cell. Microsystem Technologies, 2018, 24, 1919-1923.   | 1.2 | 7         |
| 18 | The performances of silicon solar cell with core-shell p-n junctions of micro-nano pillars fabricated by cesium chloride self-assembly and dry etching. Applied Physics A: Materials Science and Processing, 2014, 114, 1175-1179. | 1.1 | 6         |

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|----|--|-----|-----------|
| 19 | The performance of silicon solar cell with selective pillars fabricated by Cesium Chloride self-assembly lithography and UV-lithography. <i>Solar Energy</i> , 2014, 105, 274-279.   | 2.9 | 6         |
| 20 | Large-aperture prism-array lens for high-energy X-ray focusing. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 1091-1096.   | 1.0 | 6         |
| 21 | Fabrication of the ZnO nanowires/TiO <sub>2</sub> nanowires/Si micropillars structures for the gas sensor application. <i>Sensors and Actuators A: Physical</i> , 2022, 345, 113665.   | 2.0 | 6         |
| 22 | Multiform structures with silicon nanopillars by cesium chloride self-assembly and dry etching. <i>Applied Surface Science</i> , 2011, 257, 10489-10493.   | 3.1 | 5         |
| 23 | Fabrication and Photovoltaic Effect of CdS/Silicon Nanopillars Heterojunction Solar Cell. <i>ChemistrySelect</i> , 2016, 1, 4901-4905.   | 0.7 | 5         |
| 24 | Fabrication and Photosensitivity of CdS/Silicon Nanoscrew Photoresistor. <i>ChemistrySelect</i> , 2017, 2, 8577-8582.  | 0.7 | 5         |
| 25 | Fabrication and properties of micro-nano structure based heterojunction solar cell and photoresistor. <i>Materials Research Express</i> , 2019, 6, 075024.   | 0.8 | 5         |
| 26 | Fabrication of CdS Nanorods on Si Pyramid Surface for Photosensitive Application. <i>ACS Omega</i> , 2020, 5, 11695-11700.   | 1.6 | 5         |
| 27 | Fabrication of silicon nanotip arrays with high aspect ratio by cesium chloride self-assembly and dry etching. <i>AIP Advances</i> , 2014, 4, 031335.  | 0.6 | 4         |
| 28 | Sidewall smoothing of micro-pore optics by ion beam etching. <i>Surface and Coatings Technology</i> , 2015, 278, 127-131.  | 2.2 | 4         |
| 29 | Gas sensor based on ZnO film/silica pillars. <i>Materials Research Express</i> , 2016, 3, 125701.  | 0.8 | 4         |
| 30 | Fabrication of high energy X-ray compound kinoform lenses using X-ray lithography. <i>Microsystem Technologies</i> , 2017, 23, 1553-1562.  | 1.2 | 4         |
| 31 | Fabrication of micro-slot optics on curved substrate by X-ray lithography and electroplating. <i>Microsystem Technologies</i> , 2021, 27, 1895-1900.   | 1.2 | 4         |
| 32 | A method to fabricate high-aspect-ratio microstructures using PMMA photoresist. <i>Microsystem Technologies</i> , 2018, 24, 1223-1226.   | 1.2 | 3         |
| 33 | Fabrication and photosensitivity of ZnO/CdS/silica nanopillars based photoresistor. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 11326-11333.   | 1.1 | 3         |
| 34 | The Fabrication and Photoelectric Properties of the Nanopillar Arrays for Solar Cell. <i>Materials Science Forum</i> , 0, 694, 375-379.  | 0.3 | 2         |
| 35 | Fabrication and Photovoltaic Characteristics of Silicon Nanoscrew and Nanohole Based Solar Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 236-240.  | 0.9 | 2         |
| 36 | Overcoming the Problem of Electrical Contact to Solar Cells Fabricated using Selective Area Silicon Nanopillars by Cesium Chloride Self-Assembly Lithography as Antireflective Layer. <i>Energy Technology</i> , 2016, 4, 298-303. | 1.8 | 2         |

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|----|--|-----|-----------|
| 37 | Fabrication of absorption gratings with X-ray lithography for X-ray phase contrast imaging. International Journal of Modern Physics B, 2018, 32, 1850163.  | 1.0 | 2         |
| 38 | The Influence of Silicon Nanopillars Structure as the Substrate on the SnO <sub>2</sub> -Based Gas Sensor. ChemistrySelect, 2021, 6, 3982-3987.  | 0.7 | 2         |
| 39 | Study of Pt growth on Si, Al <sub>2</sub> O <sub>3</sub> , Au, and Ni surfaces by plasma enhanced atomic layer deposition. Journal of Applied Physics, 2021, 130, 105305.  | 1.1 | 2         |
| 40 | ZnO Nanowires/CdS Nanorods Structure Grown on Silica Micropillars Array for Photosensitive Application. Electronic Materials Letters, 2021, 17, 507-512.   | 1.0 | 1         |
| 41 | Fabrication of TiO <sub>2</sub> nanorods on Si pillars surface for photosensitive application. Journal of Materials Science: Materials in Electronics, 2022, 33, 8171-8178.  | 1.1 | 1         |
| 42 | Fabrication of ZnS layer on silicon nanopillars surface for photoresistor application. Chemical Physics Letters, 2022, 801, 139716.  | 1.2 | 1         |
| 43 | The Fabrication of Silicon Nanopin with CsCl Nanoislands and Dry Etching for Field Emission. Key Engineering Materials, 2013, 562-565, 1224-1228.  | 0.4 | 0         |
| 44 | Photoelectric characteristics of silicon P <sup>+</sup> N junction with nanopillar texture: Analysis of X-ray photoelectron spectroscopy. Chinese Physics B, 2014, 23, 096101.   | 0.7 | 0         |
| 45 | The Silicon Solar Cell with Selective Nanoscrew Pillars Fabricated by Cesium Chloride Self-Assembly Lithography and Dry Etching. Journal of Nanoscience and Nanotechnology, 2016, 16, 7515-7520.                                   | 0.9 | 0         |
| 46 | Influence of the bridges on prism-array lens focusing for high energy X-rays. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 910, 115-120. | 0.7 | 0         |
| 47 | Fabrication of microelectrodes on diamond anvil for the resistance measurement in high pressure experiment. Microsystem Technologies, 2018, 24, 3193-3199.   | 1.2 | 0         |
| 48 | The property research of the transmission sinusoidal grating with fabrication of LIGA process. Optoelectronics Letters, 2019, 15, 335-338.   | 0.4 | 0         |
| 49 | Fabrication and Field Emission Property of Ordered Silicon Nanotip Array Based on Controllable Self-Assembly of Cesium Chloride. Journal of Nanoscience and Nanotechnology, 2016, 16, 7715-7719.                                   | 0.9 | 0         |
| 50 | Nanopillars on Unpolished Substrates and Their Application in Large-Area Solar Cells. Journal of Nanoscience and Nanotechnology, 2017, 17, 2012-2018.  | 0.9 | 0         |