

Jie Xiang

List of Publications by Year in descending order

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26
papers

6,052
citations

430754

18
h-index

642610

23
g-index

26
all docs

26
docs citations

26
times ranked

7109
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Ge/Si nanowire heterostructures as high-performance field-effect transistors. <i>Nature</i> , 2006, 441, 489-493. | 13.7 | 1,401 |
| 2 | Nanowire electronic and optoelectronic devices. <i>Materials Today</i> , 2006, 9, 18-27. | 8.3 | 1,253 |
| 3 | Single-crystal metallic nanowires and metal/semiconductor nanowire heterostructures. <i>Nature</i> , 2004, 430, 61-65. | 13.7 | 957 |
| 4 | One-dimensional hole gas in germanium/silicon nanowire heterostructures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 10046-10051. | 3.3 | 443 |
| 5 | Dopant-Free GaN/AlN/AlGaN Radial Nanowire Heterostructures as High Electron Mobility Transistors. <i>Nano Letters</i> , 2006, 6, 1468-1473. | 4.5 | 344 |
| 6 | A Ge/Si heterostructure nanowire-based double quantum dot with integrated charge sensor. <i>Nature Nanotechnology</i> , 2007, 2, 622-625. | 15.6 | 287 |
| 7 | Ge/Si nanowire mesoscopic Josephson junctions. <i>Nature Nanotechnology</i> , 2006, 1, 208-213. | 15.6 | 255 |
| 8 | Thermal Conductivity of Ge and Ge/Si Core/Shell Nanowires in the Phonon Confinement Regime. <i>Nano Letters</i> , 2011, 11, 5507-5513. | 4.5 | 171 |
| 9 | Performance Analysis of a Ge/Si Core/Shell Nanowire Field-Effect Transistor. <i>Nano Letters</i> , 2007, 7, 642-646. | 4.5 | 157 |
| 10 | Sub-100 Nanometer Channel Length Ge/Si Nanowire Transistors with Potential for 2 THz Switching Speed. <i>Nano Letters</i> , 2008, 8, 925-930. | 4.5 | 150 |
| 11 | Rational growth of branched nanowire heterostructures with synthetically encoded properties and function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 12212-12216. | 3.3 | 144 |
| 12 | Ultra-sensitive thermal conductance measurement of one-dimensional nanostructures enhanced by differential bridge. <i>Review of Scientific Instruments</i> , 2012, 83, 024901. | 0.6 | 100 |
| 13 | Sub-amorphous Thermal Conductivity in Ultrathin Crystalline Silicon Nanotubes. <i>Nano Letters</i> , 2015, 15, 2605-2611. | 4.5 | 94 |
| 14 | Gate-Modulated Thermoelectric Power Factor of Hole Gas in Ge/Si Core/Shell Nanowires. <i>Nano Letters</i> , 2013, 13, 1196-1202. | 4.5 | 69 |
| 15 | Modeling and Design of Ferroelectric MOSFETs. <i>IEEE Transactions on Electron Devices</i> , 2011, 58, 2401-2405. | 1.6 | 56 |
| 16 | Imaging and analysis of nanowires. <i>Microscopy Research and Technique</i> , 2004, 64, 373-389. | 1.2 | 54 |
| 17 | Three-Terminal Nanoelectromechanical Field Effect Transistor with Abrupt Subthreshold Slope. <i>Nano Letters</i> , 2014, 14, 1687-1691. | 4.5 | 36 |
| 18 | Thermal transport in Si and Ge nanostructures in the δ^2 confinement regime. <i>Nanoscale</i> , 2016, 8, 13155-13167. | 2.8 | 35 |

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|----|--|-----|-----------|
| 19 | Misfit-Guided Self-Organization of Anticorrelated Ge Quantum Dot Arrays on Si Nanowires. Nano Letters, 2012, 12, 4757-4762. | 4.5 | 16 |
| 20 | Self-Bridging of Vertical Silicon Nanowires and a Universal Capacitive Force Model for Spontaneous Attraction in Nanostructures. ACS Nano, 2014, 8, 11261-11267. | 7.3 | 11 |
| 21 | Selective functionalization and loading of biomolecules in crystalline silicon nanotube field-effect-transistors. Nanoscale, 2014, 6, 7847-7852. | 2.8 | 7 |
| 22 | Highly stretchable, printable nanowire array optical polarizers. Nanoscale, 2016, 8, 15850-15856. | 2.8 | 7 |
| 23 | Steep subthreshold slope nanoelectromechanical field-effect transistors with nanowire channel and back gate geometry. , 2013, , . | | 2 |
| 24 | High Performance, Low Power Nanowire Transistor Devices. RSC Smart Materials, 2014, , 54-110. | 0.1 | 2 |
| 25 | Steep subthreshold slope nanowire nanoelectromechanical field-effect transistors (NW-NEMFETs). , 2013, , . | | 1 |
| 26 | Thermal Conductivity Measurement of Thin Nanowires. , 2011, , . | | 0 |