

# 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	Highly stretchable, printable nanowire array optical polarizers. <i>Nanoscale</i> , 2016, 8, 15850-15856.	2.8	7
2	Thermal transport in Si and Ge nanostructures in the $\tilde{\omega}$ confinement regime. <i>Nanoscale</i> , 2016, 8, 13155-13167.	2.8	35
3	Sub-amorphous Thermal Conductivity in Ultrathin Crystalline Silicon Nanotubes. <i>Nano Letters</i> , 2015, 15, 2605-2611.	4.5	94
4	High Performance, Low Power Nanowire Transistor Devices. <i>RSC Smart Materials</i> , 2014, , 54-110.	0.1	2
5	Selective functionalization and loading of biomolecules in crystalline silicon nanotube field-effect-transistors. <i>Nanoscale</i> , 2014, 6, 7847-7852.	2.8	7
6	Self-Bridging of Vertical Silicon Nanowires and a Universal Capacitive Force Model for Spontaneous Attraction in Nanostructures. <i>ACS Nano</i> , 2014, 8, 11261-11267.	7.3	11
7	Three-Terminal Nanoelectromechanical Field Effect Transistor with Abrupt Subthreshold Slope. <i>Nano Letters</i> , 2014, 14, 1687-1691.	4.5	36
8	Steep subthreshold slope nanowire nanoelectromechanical field-effect transistors (NW-NEMFETs). , 2013, , .		1
9	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
10	Steep subthreshold slope nanoelectromechanical field-effect transistors with nanowire channel and back gate geometry. , 2013, , .		2
11	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
12	Misfit-Guided Self-Organization of Anticorrelated Ge Quantum Dot Arrays on Si Nanowires. <i>Nano Letters</i> , 2012, 12, 4757-4762.	4.5	16
13	Thermal Conductivity Measurement of Thin Nanowires. , 2011, , .		0
14	Modeling and Design of Ferroelectric MOSFETs. <i>IEEE Transactions on Electron Devices</i> , 2011, 58, 2401-2405.	1.6	56
15	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
16	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
17	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
18	Performance Analysis of a Ge/Si Core/Shell Nanowire Field-Effect Transistor. <i>Nano Letters</i> , 2007, 7, 642-646.	4.5	157

#	ARTICLE	IF	CITATIONS
19	A Ge/Si heterostructure nanowire-based double quantum dot with integrated charge sensor. Nature Nanotechnology, 2007, 2, 622-625.	15.6	287
20	Dopant-Free GaN/AlN/AlGaN Radial Nanowire Heterostructures as High Electron Mobility Transistors. Nano Letters, 2006, 6, 1468-1473.	4.5	344
21	Nanowire electronic and optoelectronic devices. Materials Today, 2006, 9, 18-27.	8.3	1,253
22	Ge/Si nanowire mesoscopic Josephson junctions. Nature Nanotechnology, 2006, 1, 208-213.	15.6	255
23	Ge/Si nanowire heterostructures as high-performance field-effect transistors. Nature, 2006, 441, 489-493.	13.7	1,401
24	One-dimensional hole gas in germanium/silicon nanowire heterostructures. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 10046-10051.	3.3	443
25	Single-crystal metallic nanowires and metal/semiconductor nanowire heterostructures. Nature, 2004, 430, 61-65.	13.7	957
26	Imaging and analysis of nanowires. Microscopy Research and Technique, 2004, 64, 373-389.	1.2	54