

# Matthias Grube

## List of Publications by Year in descending order

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18  
papers

367  
citations

1040056

9  
h-index

1058476

14  
g-index

18  
all docs

18  
docs citations

18  
times ranked

667  
citing authors

#	ARTICLE	IF	CITATIONS
1	High Area Capacity Lithium-Sulfur Full-cell Battery with Prelithiated Silicon Nanowire-Carbon Anodes for Long Cycling Stability. <i>Scientific Reports</i> , 2016, 6, 27982.	3.3	69
2	Reconfigurable Nanowire Electronics-Enabling a Single CMOS Circuit Technology. <i>IEEE Nanotechnology Magazine</i> , 2014, 13, 1020-1028.	2.0	63
3	Silicon nanowires – a versatile technology platform. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013, 7, 793-799.	2.4	61
4	Direct Probing of Schottky Barriers in Si Nanowire Schottky Barrier Field Effect Transistors. <i>Physical Review Letters</i> , 2011, 107, 216807.	7.8	45
5	Mesoscopic analysis of leakage current suppression in ZrO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> /ZrO <sub>2</sub> nano-laminates. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	42
6	Material Prospects of Reconfigurable Transistor (RFETs) – From Silicon to Germanium Nanowires. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1659, 225-230.	0.1	23
7	Reconfigurable Si Nanowire Nonvolatile Transistors. <i>Advanced Electronic Materials</i> , 2018, 4, 1700399.	5.1	21
8	Local charge transport in nanoscale amorphous and crystalline regions of high-k (ZrO <sub>2</sub> ) <sub>0.8</sub> (Al <sub>2</sub> O <sub>3</sub> ) <sub>0.2</sub> thin films. <i>Applied Physics Letters</i> , 2009, 95, 142906.	3.3	14
9	Macroscopic and microscopic electrical characterizations of high-k ZrO <sub>2</sub> and ZrO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> /ZrO <sub>2</sub> metal-insulator-metal structures. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2011, 29, 01AC02.	1.2	10
10	Influence of composition and bottom electrode properties on the local conductivity of TiN/HfTiO <sub>2</sub> and TiN/Ru/HfTiO <sub>2</sub> stacks. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	5
11	Applicability of molecular beam deposition for the growth of high-k oxides. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2011, 29, .	1.2	5
12	Molecular beam deposited zirconium dioxide as a high- $\epsilon^{\prime}$ dielectric for future GaN based power devices. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2013, 31, .	1.2	3
13	Structural and dielectric properties of sputtered Sr <sub>x</sub> Zr(1-x)O <sub>y</sub> . <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	3
14	Stability and Performance of Heterogeneous Anode Assemblies of Silicon Nanowires on Carbon Meshes for Lithium-Sulfur Battery Applications. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1751, 19.	0.1	2
15	Investigation of zirconium oxide based high-k dielectrics for future memory applications. , 2009, , .		1
16	Reconfigurable nanowire electronics &#x2014; Device principles and circuit prospects. , 2013, , .		0
17	Reconfigurable silicon nanowire devices and circuits: Opportunities and challenges. , 2014, , .		0
18	Towards Full-area Passivating Contacts for Silicon Surfaces based on Al<sub>2</sub>O<sub>3</sub>-TiO<sub>2</sub> Double Layers. , 2018, , .		0