

# Matthias Grube

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/818684/publications.pdf>

Version: 2024-02-01

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