

Martien den Hertog

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

2,351
citations

218677

26
h-index

214800

47
g-index

75
all docs

75
docs citations

75
times ranked

3133
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermally propagated Al contacts on SiGe nanowires characterized by electron beam induced current in a scanning transmission electron microscope. <i>Nanotechnology</i> , 2022, 33, 035712.	2.6	0
2	Regulated Dynamics with Two Monolayer Steps in Vapor-Solid Growth of Nanowires. <i>ACS Nano</i> , 2022, 16, 4397-4407.	14.6	5
3	The onset of tapering in the early stage of growth of a nanowire. <i>Nanotechnology</i> , 2022, 33, 255601.	2.6	2
4	Nano-sheets of two-dimensional polymers with dinuclear (arene)ruthenium nodes, synthesised at a liquid/liquid interface. <i>Nanotechnology</i> , 2021, 32, 355603.	2.6	0
5	Al-Ge-Al Nanowire Heterostructure: From Single-Hole Quantum Dot to Josephson Effect. <i>Advanced Materials</i> , 2021, 33, e2101989.	21.0	5
6	Gate-Tunable Negative Differential Resistance in Next-Generation Ge Nanodevices and their Performance Metrics. <i>Advanced Electronic Materials</i> , 2021, 7, 2001178.	5.1	14
7	The role of surface diffusion in the growth mechanism of III-nitride nanowires and nanotubes. <i>Nanotechnology</i> , 2021, 32, 085606.	2.6	7
8	Nanometer-Scale Ge-Based Adaptable Transistors Providing Programmable Negative Differential Resistance Enabling Multivalued Logic. <i>ACS Nano</i> , 2021, 15, 18135-18141.	14.6	24
9	Design of AlGaIn Dot-In-Wire Heterostructures for Electron-Pumped UV Emitters. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 1900714.	1.8	4
10	Correlated Electro-Optical and Structural Study of Electrically Tunable Nanowire Quantum Dot Emitters. <i>Nano Letters</i> , 2020, 20, 314-319.	9.1	3
11	Reversible Al Propagation in SiGe Nanowires: Implications for Electrical Contact Formation. <i>ACS Applied Nano Materials</i> , 2020, 3, 10427-10436.	5.0	4
12	Controlling the shape of a tapered nanowire: lessons from the Burton-Cabrera-Frank model. <i>Nanotechnology</i> , 2020, 31, 274004.	2.6	3
13	Stimulated Raman Scattering in Ge Nanowires. <i>Journal of Physical Chemistry C</i> , 2020, 124, 13872-13877.	3.1	3
14	Plasmon-Driven Hot Electron Transfer at Atomically Sharp Metal-Semiconductor Nanojunctions. <i>ACS Photonics</i> , 2020, 7, 1642-1648.	6.6	18
15	Correlated and in-situ electrical transmission electron microscopy studies and related membrane-chip fabrication. <i>Nanotechnology</i> , 2020, 31, 472001.	2.6	8
16	In-Situ Transmission Electron Microscopy Imaging of Aluminum Diffusion in Germanium Nanowires for the Fabrication of Sub-10 nm Ge Quantum Disks. <i>ACS Applied Nano Materials</i> , 2020, 3, 1891-1899.	5.0	12
17	Assessment of AlGaIn superlattices on GaN nanowires as active region of electron-pumped ultraviolet sources. <i>Nanotechnology</i> , 2020, 31, 204001.	2.6	14
18	Effect of Bias on the Response of GaN Axial p-n Junction Single-Nanowire Photodetectors. <i>Nano Letters</i> , 2019, 19, 5506-5514.	9.1	31

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19	In Situ Transmission Electron Microscopy Analysis of Copper-Germanium Nanowire Solid-State Reaction. Nano Letters, 2019, 19, 8365-8371.	9.1	8
20	Nanoscale aluminum plasmonic waveguide with monolithically integrated germanium detector. Applied Physics Letters, 2019, 115, .	3.3	17
21	Probing the light hole/heavy hole switching with correlated magneto-optical spectroscopy and chemical analysis on a single quantum dot. Nanotechnology, 2019, 30, 175301.	2.6	2
22	In Situ Transmission Electron Microscopy Analysis of Aluminum-Germanium Nanowire Solid-State Reaction. Nano Letters, 2019, 19, 2897-2904.	9.1	39
23	Highly Transparent Contacts to the 1D Hole Gas in Ultrascaled Ge/Si Core/Shell Nanowires. ACS Nano, 2019, 13, 14145-14151.	14.6	15
24	Demonstration of a 2D programmable phase plate for electrons. Ultramicroscopy, 2018, 190, 58-65.	1.9	80
25	Effect of the nanowire diameter on the linearity of the response of GaN-based heterostructured nanowire photodetectors. Nanotechnology, 2018, 29, 255204.	2.6	15
26	In situ biasing and off-axis electron holography of a ZnO nanowire. Nanotechnology, 2018, 29, 025710.	2.6	10
27	Monolithic Axial and Radial Metal-Semiconductor Nanowire Heterostructures. Nano Letters, 2018, 18, 7692-7697.	9.1	15
28	Tuning Electroluminescence from a Plasmonic Cavity-Coupled Silicon Light Source. Nano Letters, 2018, 18, 7230-7237.	9.1	10
29	Intersubband absorption in GaN nanowire heterostructures at mid-infrared wavelengths. Nanotechnology, 2018, 29, 385201.	2.6	5
30	Soluble Two-Dimensional Covalent Organometallic Polymers by (Arene)Ruthenium-Sulfur Chemistry. Chemistry - A European Journal, 2017, 23, 10969-10973.	3.3	3
31	Bias-Controlled Spectral Response in GaN/AlN Single-Nanowire Ultraviolet Photodetectors. Nano Letters, 2017, 17, 4231-4239.	9.1	45
32	Intersubband absorption in Si- and Ge-doped GaN/AlN heterostructures in self-assembled nanowire and 2D layers. Physica Status Solidi (B): Basic Research, 2017, 254, 1600734.	1.5	16
33	Near-Infrared Intersubband Photodetection in GaN/AlN Nanowires. Nano Letters, 2017, 17, 6954-6960.	9.1	33
34	Effect of doping on the intersubband absorption in Si- and Ge-doped GaN/AlN heterostructures. Nanotechnology, 2017, 28, 405204.	2.6	24
35	Control of the incubation time in the vapor-solid-solid growth of semiconductor nanowires. Applied Physics Letters, 2017, 110, 263107.	3.3	4
36	Dislocation-free axial InAs-on-GaAs nanowires on silicon. Nanotechnology, 2017, 28, 365602.	2.6	9

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37	Highly uniform zinc blende GaAs nanowires on Si(111) using a controlled chemical oxide template. Nanotechnology, 2017, 28, 255602.	2.6	5
38	Diffusion-driven growth of nanowires by low-temperature molecular beam epitaxy. Journal of Applied Physics, 2016, 119, .	2.5	13
39	Ge doping of GaN beyond the Mott transition. Journal Physics D: Applied Physics, 2016, 49, 445301.	2.8	36
40	Determination of the Optimal Shell Thickness for Self-Catalyzed GaAs/AlGaAs Core-Shell Nanowires on Silicon. Nano Letters, 2016, 16, 3426-3433.	9.1	21
41	UV Photosensing Characteristics of Nanowire-Based GaN/AlN Superlattices. Nano Letters, 2016, 16, 3260-3267.	9.1	53
42	Direct and co-catalytic oxidative aromatization of 1,4-dihydropyridines and related substrates using gold nanoparticles supported on carbon nanotubes. Catalysis Science and Technology, 2016, 6, 6476-6479.	4.1	16
43	Quantitative Reconstructions of 3D Chemical Nanostructures in Nanowires. Nano Letters, 2016, 16, 1637-1642.	9.1	30
44	Abrupt Schottky Junctions in Al/Ge Nanowire Heterostructures. Nano Letters, 2015, 15, 4783-4787.	9.1	47
45	Attribution of the 3.45 eV GaN nanowires luminescence to inversion domain boundaries. Applied Physics Letters, 2015, 107, .	3.3	48
46	Alloy inhomogeneity and carrier localization in AlGaIn sections and AlGaIn/AlN nanodisks in nanowires with 240-350 nm emission. Applied Physics Letters, 2014, 105, .	3.3	34
47	Cathodoluminescence of stacking fault bound excitons for local probing of the exciton diffusion length in single GaN nanowires. Applied Physics Letters, 2014, 104, .	3.3	26
48	Structure and Morphology in Diffusion-Driven Growth of Nanowires: The Case of ZnTe. Nano Letters, 2014, 14, 1877-1883.	9.1	26
49	Residual strain and piezoelectric effects in passivated GaAs/AlGaAs core-shell nanowires. Applied Physics Letters, 2013, 102, .	3.3	42
50	Optical properties of single ZnTe nanowires grown at low temperature. Applied Physics Letters, 2013, 103, .	3.3	20
51	Growth of II-VI ZnSe/CdSe nanowires for quantum dot luminescence. Journal of Crystal Growth, 2013, 378, 233-237.	1.5	7
52	Environmental sensitivity of In-In and undoped single GaN nanowire photodetectors. Applied Physics Letters, 2013, 102, .	3.3	21
53	Single GaN-Based Nanowires for Photodetection and Sensing Applications. Japanese Journal of Applied Physics, 2013, 52, 11NG01.	1.5	12
54	Effect of HCl on the doping and shape control of silicon nanowires. Nanotechnology, 2012, 23, 215702.	2.6	64

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55	Room-Temperature Photodetection Dynamics of Single GaN Nanowires. Nano Letters, 2012, 12, 172-176.	9.1	139
56	Correlation of Polarity and Crystal Structure with Optoelectronic and Transport Properties of GaN/AlN/GaN Nanowire Sensors. Nano Letters, 2012, 12, 5691-5696.	9.1	73
57	Hidden defects in silicon nanowires. Nanotechnology, 2012, 23, 025701.	2.6	33
58	Ultrafast Room Temperature Single-Photon Source from Nanowire-Quantum Dots. Nano Letters, 2012, 12, 2977-2981.	9.1	70
59	Insertion of CdSe quantum dots in ZnSe nanowires: MBE growth and microstructure analysis. Journal of Crystal Growth, 2011, 323, 330-333.	1.5	4
60	Strong suppression of internal electric field in GaN/AlGaIn multi-layer quantum dots in nanowires. Applied Physics Letters, 2011, 99, .	3.3	20
61	Off axis holography of doped and intrinsic silicon nanowires: Interpretation and influence of fields in the vacuum. Journal of Physics: Conference Series, 2010, 209, 012027.	0.4	4
62	The Importance of the Radial Growth in the Faceting of Silicon Nanowires. Nano Letters, 2010, 10, 2335-2341.	9.1	49
63	The morphology of silicon nanowires grown in the presence of trimethylaluminium. Nanotechnology, 2009, 20, 245602.	2.6	16
64	Odd electron diffraction patterns in silicon nanowires and silicon thin films explained by microtwins and nanotwins. Journal of Applied Crystallography, 2009, 42, 242-252.	4.5	88
65	Mapping Active Dopants in Single Silicon Nanowires Using Off-Axis Electron Holography. Nano Letters, 2009, 9, 3837-3843.	9.1	63
66	Silicon nanowires grown in nanoporous alumina matrices on oriented silicon substrates investigated by electron microscopy. Superlattices and Microstructures, 2008, 44, 354-361.	3.1	6
67	The growth of small diameter silicon nanowires to nanotrees. Nanotechnology, 2008, 19, 125608.	2.6	42
68	Control of Gold Surface Diffusion on Si Nanowires. Nano Letters, 2008, 8, 1544-1550.	9.1	108
69	Fabrication of Well-Organized and Densely Packed Si Nanopillars Containing SiGe Nanodots by Using Block Copolymer Templates. Chemistry of Materials, 2008, 20, 6183-6188.	6.7	13
70	Gold Catalyzed Silicon Nanowires: Defects in the Wires and Gold on the Wires. Springer Proceedings in Physics, 2008, , 217-220.	0.2	3
71	Critical condition for growth of silicon nanowires. Journal of Applied Physics, 2007, 102, 094906.	2.5	55
72	Quantum cutting by cooperative energy transfer in Yb ³⁺ /PO ₄ :Tb ³⁺ . Physical Review B, 2005, 71, .	3.2	537