Jos E M Haverkort

List of Publications by Year
in descending order

24 papers	1,364 citations	586496 16 h-index	685536 24 g-index
26 all docs	26 docs citations	26 times ranked	2643 citing authors

#	Article	IF	Citations
1	Extremely low material consumption III/V solar cell. , 2022, , .		1
2	Nanowire Solar Cell Above the Radiative Limit. Advanced Optical Materials, 2021, 9, 2001636.	3.6	9
3	Unveiling Planar Defects in Hexagonal Group IV Materials. Nano Letters, 2021, 21, 3619-3625.	4.5	8
4	Ballistic Phonons in Ultrathin Nanowires. Nano Letters, 2020, 20, 2703-2709.	4.5	30
5	Direct-bandgap emission from hexagonal Ge and SiGe alloys. Nature, 2020, 580, 205-209.	13.7	231
6	Epitaxial Ge_{0.81}Sn_{0.19} Nanowires for Nanoscale Mid-Infrared Emitters. ACS Nano, 2019, 13, 8047-8054.	7.3	34
7	Tapered InP nanowire arrays for efficient broadband high-speed single-photon detection. Nature Nanotechnology, 2019, 14, 473-479.	15.6	73
8	Hexagonal silicon grown from higher order silanes. Nanotechnology, 2019, 30, 295602.	1.3	12
9	On the origin of the photocurrent of electrochemically passivated p-InP(100) photoelectrodes. Physical Chemistry Chemical Physics, 2018, 20, 14242-14250.	1.3	14
10	Efficient Green Emission from Wurtzite Al_{<i>x</i>}In_{1â€“<i>x</i>}P Nanowires. Nano Letters, 2018, 18, 3543-3549.	4.5	16
11	Fundamentals of the nanowire solar cell: Optimization of the open circuit voltage. Applied Physics Reviews, 2018, 5, 031106.	5.5	71
12	Charge carrier-selective contacts for nanowire solar cells. Nature Communications, 2018, 9, 3248.	5.8	27
13	Effective Surface Passivation of InP Nanowires by Atomic-Layer-Deposited Al₂O₃ with PO_{<i>x</i>} Interlayer. Nano Letters, 2017, 17, 6287-6294.	4.5	68
14	Crystal Phase Quantum Well Emission with Digital Control. Nano Letters, 2017, 17, 6062-6068.	4.5	27
15	Highâ€Efficiency InPâ€Based Photocathode for Hydrogen Production by Interface Energetics Design and Photon Management. Advanced Functional Materials, 2016, 26, 679-686.	7.8	69
16	High-Efficiency Nanowire Solar Cells with Omnidirectionally Enhanced Absorption Due to Self-Aligned Indiumâ€“Tinâ€“Oxide Mie Scatterers. ACS Nano, 2016, 10, 11414-11419.	7.3	150
17	High-Yield Growth and Characterization of âŸ¨100âŸ© InP pâ€“n Diode Nanowires. Nano Letters, 2016, 16, 3071-3077.	4.5	11
18	Quantifying losses and thermodynamic limits in nanophotonic solar cells. Nature Nanotechnology, 2016, 11, 1071-1075.	15.6	50

#	Article	IF	Citations
19	Influence of growth conditions on the performance of InP nanowire solar cells. Nanotechnology, 2016, 27, 454003.	1.3	10
20	Directional and Polarized Emission from Nanowire Arrays. Nano Letters, 2015, 15, 4557-4563.	4.5	74
21	Efficient water reduction with gallium phosphide nanowires. Nature Communications, 2015, 6, 7824.	5.8	123
22	Efficiency Enhancement of InP Nanowire Solar Cells by Surface Cleaning. Nano Letters, 2013, 13, 4113-4117.	4.5	134
23	High optical quality single crystal phase wurtzite and zincblende InP nanowires. Nanotechnology, 2013, 24, 115705.	1.3	59
24	Position-controlled [100] InP nanowire arrays. Applied Physics Letters, 2012, 100, 053107.	1.5	62