Daniel Jacobsson Madsen

List of Publications by Year
in descending order

43 papers	1,472 citations	304743 22 h-index	315739 38 g-index
44 all docs	44 docs citations	44 times ranked	1719 citing authors

#	Article	IF	Citations
1	Interface dynamics and crystal phase switching in GaAs nanowires. Nature, 2016, 531, 317-322.	27.8	272
2	A General Approach for Sharp Crystal Phase Switching in InAs, GaAs, InP, and GaP Nanowires Using Only Group V Flow. Nano Letters, 2013, 13, 4099-4105.	9.1	156
3	IIIâ€“V Nanowire Complementary Metalâ€“Oxide Semiconductor Transistors Monolithically Integrated on Si. Nano Letters, 2015, 15, 7898-7904.	9.1	71
4	Direct Imaging of Atomic Scale Structure and Electronic Properties of GaAs Wurtzite and Zinc Blende Nanowire Surfaces. Nano Letters, 2013, 13, 4492-4498.	9.1	63
5	Confinement in Thickness-Controlled GaAs Polytype Nanodots. Nano Letters, 2015, 15, 2652-2656.	9.1	62
6	Observation of type-II recombination in single wurtzite/zinc-blende GaAs heterojunction nanowires. Physical Review B, 2014, 89, .	3.2	60
7	Strategies to obtain pattern fidelity in nanowire growth from large-area surfaces patterned using nanoimprint lithography. Nano Research, 2016, 9, 2852-2861.	10.4	56
8	High crystal quality wurtzite-zinc blende heterostructures in metal-organic vapor phase epitaxy-grown GaAs nanowires. Nano Research, 2012, 5, 470-476.	10.4	51
9	In situ analysis of catalyst composition during gold catalyzed GaAs nanowire growth. Nature Communications, 2019, 10, 4577.	12.8	49
10	Real-time, in situ, atomic scale observation of soot oxidation. Carbon, 2019, 145, 149-160.	10.3	49
11	Particle-assisted Ga_{<i>x</i>}In_{1âˆ’<i>x</i>}P nanowire growth for designed bandgap structures. Nanotechnology, 2012, 23, 245601.	2.6	48
12	Crystal phase control in GaAs nanowires: opposing trends in the Ga- and As-limited growth regimes. Nanotechnology, 2015, 26, 301001.	2.6	43
13	Bending and Twisting Lattice Tilt in Strained Coreâ€“Shell Nanowires Revealed by Nanofocused X-ray Diffraction. Nano Letters, 2017, 17, 4143-4150.	9.1	43
14	Control of composition and morphology in InGaAs nanowires grown by metalorganic vapor phase epitaxy. Journal of Crystal Growth, 2013, 383, 158-165.	1.5	39
15	GaAs/AlGaAs heterostructure nanowires studied by cathodoluminescence. Nano Research, 2014, 7, 473-490.	10.4	34
16	Low Trap Density in InAs/High-<i>k</i> Nanowire Gate Stacks with Optimized Growth and Doping Conditions. Nano Letters, 2016, 16, 2418-2425.	9.1	31
17	Independent Control of Nucleation and Layer Growth in Nanowires. ACS Nano, 2020, 14, 3868-3875.	14.6	31
18	Phase Transformation in Radially Merged Wurtzite GaAs Nanowires. Crystal Growth and Design, 2015, 15, 4795-4803.	3.0	27

#	Article		IF	Citations
19	Magnetic Polarons and Large Negative Magnetoresistance in GaAs Nanowires Implanted with Mn Ions. Nano Letters, 2013, 13, 5079-5084.		9.1	26
20	Sn-Seeded GaAs Nanowires as Self-Assembled Radial <i>pâ€“n</i> Junctions. Nano Letters, 2015, 15, 3757-3762.		9.1	25
21	Enhanced sputtering and incorporation of Mn in implanted GaAs and ZnO nanowires. Journal Physics D: Applied Physics, 2014, 47, 394003.		2.8	24
22	FIB Plan and Side View Cross-Sectional TEM Sample Preparation of Nanostructures. Microscopy and Microanalysis, 2014, 20, 133-140.		0.4	23
23	In situ metal-organic chemical vapour deposition growth of IIIâ€“V semiconductor nanowires in the Lund environmental transmission electron microscope. Semiconductor Science and Technology, 2020, 35, 034004.		2.0	20
24	Kinetics of Auâ€“Ga Droplet Mediated Decomposition of GaAs Nanowires. Nano Letters, 2019, 19, 3498-3504.		9.1	18
25	Vaporâ€“solidâ€“solid growth dynamics in GaAs nanowires. Nanoscale Advances, 2021, 3, 5928-5940.		4.6	16
26	Structural investigation of GaInP nanowires using X-ray diffraction. Thin Solid Films, 2013, 543, 100-105.		1.8	15
27	Limits of IIIâ€“V Nanowire Growth Based on Droplet Dynamics. Journal of Physical Chemistry Letters, 2020, 11, 2949-2954.		4.6	14
28	Single GaInP nanowire p-i-n junctions near the direct to indirect bandgap crossover point. Applied Physics Letters, 2012, 100, 251103.		3.3	13
29	Zincblendeâ€toâ€wurtzite interface improvement by group III loading in Auâ€seeded GaAs nanowires. Physica Status Solidi - Rapid Research Letters, 2013, 7, 855-859.		2.4	13
30	Compositional Correlation between the Nanoparticle and the Growing Au-Assisted In_{<i>x</i>}Ga_{1â€“<i>x</i>}As Nanowire. Journal of Physical Chemistry Letters, 2021, 12, 7590-7595.		4.6	12
31	Enabling <i>In Situ</i> Studies of Metal-Organic Chemical Vapor Deposition in a Transmission Electron Microscope. Microscopy and Microanalysis, 2022, 28, 1484-1492.		0.4	11
32	Interface Dynamics in Agâ€“Cu₃P Nanoparticle Heterostructures. Journal of the American Chemical Society, 2022, 144, 248-258.		13.7	10
33	Crystal structure tuning in GaAs nanowires using HCl. Nanoscale, 2014, 6, 8257.		5.6	9
34	Magnetoresistance in Mn ion-implanted GaAs:Zn nanowires. Applied Physics Letters, 2014, 104, 153112.		3.3	8
35	Direct Observations of Twin Formation Dynamics in Binary Semiconductors. ACS Nanoscience Au, 2022, 2, 49-56.		4.8	8
36	Sn-seeded GaAs nanowires grown by MOVPE. Nanotechnology, 2016, 27, 215603.		2.6	7

#	Article	IF	Citations
37	Time-resolved compositional mapping during in situ TEM studies. Ultramicroscopy, 2021, 222, 113193.	1.9	4
38	Raman characterization of single-crystalline Ga0.96Mn0.04As:Zn nanowires realized by ion-implantation. Nanotechnology, 2019, 30, 335202.	2.6	3
39	Post-nucleation evolution of the liquidâ€“solid interface in nanowire growth. Nanotechnology, 2022, 33, 105607.	2.6	3
40	Evaluation of carrier density and mobility in Mn ion-implanted GaAs:Zn nanowires by Raman spectroscopy. Nanotechnology, 2020, 31, 205705.	2.6	2
41	Real-time in-situ Investigation of III-V Nanowire Growth using Custom-designed Hybrid Chemical Vapor Deposition-TEM. Microscopy and Microanalysis, 2017, 23, 1716-1717.	0.4	1
42	Directed Selfâ€Assembly for Dense Vertical IIIâ€“V Nanowires on Si and Implications for Gate Allâ€Around Deposition. Advanced Electronic Materials, 2022, 8, .	5.1	1
43	Measuring Surface Tension of III-V Nanowire Au-Catalyst Droplets with an E-field. Microscopy and Microanalysis, 2021, 27, 27-28.	0.4	0