

# Hanno KÃ¼pers

## List of Publications by Year in descending order

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19  
papers

308  
citations

840776

11  
h-index

839539

18  
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19  
docs citations

19  
times ranked

396  
citing authors

#	ARTICLE	IF	CITATIONS
1	Growth map for Ga-assisted growth of GaAs nanowires on Si(111) substrates by molecular beam epitaxy. <i>Nanotechnology</i> , 2016, 27, 095601.	2.6	41
2	Diameter evolution of selective area grown Ga-assisted GaAs nanowires. <i>Nano Research</i> , 2018, 11, 2885-2893.	10.4	38
3	Anomalous Strain Relaxation in Core-Shell Nanowire Heterostructures via Simultaneous Coherent and Incoherent Growth. <i>Nano Letters</i> , 2017, 17, 136-142.	9.1	35
4	Nanowires Bending over Backward from Strain Partitioning in Asymmetric Core-Shell Heterostructures. <i>Nano Letters</i> , 2018, 18, 2343-2350.	9.1	35
5	Ga predeposition for the Ga-assisted growth of GaAs nanowire ensembles with low number density and homogeneous length. <i>Journal of Crystal Growth</i> , 2017, 459, 43-49.	1.5	23
6	Surface preparation and patterning by nano imprint lithography for the selective area growth of GaAs nanowires on Si(111). <i>Semiconductor Science and Technology</i> , 2017, 32, 115003.	2.0	21
7	Self-Assembly of InAs Nanostructures on the Sidewalls of GaAs Nanowires Directed by a Bi Surfactant. <i>Nano Letters</i> , 2017, 17, 4255-4260.	9.1	19
8	Impact of the Shadowing Effect on the Crystal Structure of Patterned Self-Catalyzed GaAs Nanowires. <i>Nano Letters</i> , 2019, 19, 4263-4271.	9.1	17
9	Determination of indium content of GaAs/(In,Ga)As/(GaAs) core-shell(-shell) nanowires by x-ray diffraction and nano x-ray fluorescence. <i>Physical Review Materials</i> , 2018, 2, .	2.4	12
10	Threefold rotational symmetry in hexagonally shaped core-shell (In,Ga)As/GaAs nanowires revealed by coherent X-ray diffraction imaging. <i>Journal of Applied Crystallography</i> , 2017, 50, 673-680.	4.5	11
11	Complete structural and strain analysis of single GaAs/(In,Ga)As/GaAs core-shell-shell nanowires by means of in-plane and out-of-plane X-ray nanodiffraction. <i>Journal of Applied Crystallography</i> , 2018, 51, 1387-1395.	4.5	11
12	Exciton recombination at crystal-phase quantum rings in GaAs/In <sub>x</sub> Ga <sub>1-x</sub> As core/multishell nanowires. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	10
13	Exciton dynamics in GaAs/(Al,Ga)As core-shell nanowires with shell quantum dots. <i>Physical Review B</i> , 2016, 94, .	3.2	10
14	Efficient methodology to correlate structural with optical properties of GaAs nanowires based on scanning electron microscopy. <i>Nanotechnology</i> , 2017, 28, 415703.	2.6	7
15	Coherent X-ray diffraction imaging meets ptychography to study core-shell-shell nanowires. <i>MRS Advances</i> , 2018, 3, 2317-2322.	0.9	7
16	Impact of Outer Shell Structure and Localization Effects on Charge Carrier Dynamics in GaAs/(In,Ga)As Nanowire Core-Shell Quantum Wells. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1800527.	2.4	7
17	Spatially-resolved luminescence and crystal structure of single core-shell nanowires measured in the as-grown geometry. <i>Nanotechnology</i> , 2020, 31, 214002.	2.6	3
18	Drastic Effect of Sequential Deposition Resulting from Flux Directionality on the Luminescence Efficiency of Nanowire Shells. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 50220-50227.	8.0	1

#	ARTICLE	IF	CITATIONS
19	Predictive model for the temporal evolution of the shape of GaAs nanowires. Journal of Crystal Growth, 2020, 531, 125320.	1.5	0