

Peter Krogstrup

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

46
papers

2,528
citations

22
h-index

48
g-index

48
ext. papers

2,910
ext. citations

9.7
avg. IF

4.64
L-index

#	Paper	IF	Citations
46	Single-nanowire solar cells beyond the Shockley-Queisser limit. <i>Nature Photonics</i> , 2013 , 7, 306-310	33.9	607
45	Scaling of Majorana Zero-Bias Conductance Peaks. <i>Physical Review Letters</i> , 2017 , 119, 136803	7.4	221
44	Epitaxy of advanced nanowire quantum devices. <i>Nature</i> , 2017 , 548, 434-438	50.4	192
43	Structural phase control in self-catalyzed growth of GaAs nanowires on silicon (111). <i>Nano Letters</i> , 2010 , 10, 4475-82	11.5	188
42	Surface-passivated GaAsP single-nanowire solar cells exceeding 10% efficiency grown on silicon. <i>Nature Communications</i> , 2013 , 4, 1498	17.4	168
41	Three-dimensional multiple-order twinning of self-catalyzed GaAs nanowires on Si substrates. <i>Nano Letters</i> , 2011 , 11, 3827-32	11.5	112
40	Advances in the theory of III-V nanowire growth dynamics. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 313001	3	102
39	Impact of the liquid phase shape on the structure of III-V nanowires. <i>Physical Review Letters</i> , 2011 , 106, 125505	7.4	92
38	Junctions in axial III-V heterostructure nanowires obtained via an interchange of group III elements. <i>Nano Letters</i> , 2009 , 9, 3689-93	11.5	79
37	Topological Phases in InAs _{1-x} Sb _x : From Novel Topological Semimetal to Majorana Wire. <i>Physical Review Letters</i> , 2016 , 117, 076403	7.4	76
36	Suppression of three dimensional twinning for a 100% yield of vertical GaAs nanowires on silicon. <i>Nanoscale</i> , 2012 , 4, 1486-90	7.7	68
35	An electrically-driven GaAs nanowire surface plasmon source. <i>Nano Letters</i> , 2012 , 12, 4943-7	11.5	55
34	Doping incorporation paths in catalyst-free Be-doped GaAs nanowires. <i>Applied Physics Letters</i> , 2013 , 102, 013117	3.4	55
33	Selectivity Map for Molecular Beam Epitaxy of Advanced III-V Quantum Nanowire Networks. <i>Nano Letters</i> , 2019 , 19, 218-227	11.5	51
32	Engineering hybrid epitaxial InAsSb/Al nanowires for stronger topological protection. <i>Physical Review Materials</i> , 2018 , 2,	3.2	50
31	Field effect enhancement in buffered quantum nanowire networks. <i>Physical Review Materials</i> , 2018 , 2,	3.2	44
30	In-situ x-ray characterization of wurtzite formation in GaAs nanowires. <i>Applied Physics Letters</i> , 2012 , 100, 093103	3.4	43

29	Experimental determination of adatom diffusion lengths for growth of InAs nanowires. <i>Journal of Crystal Growth</i> , 2013 , 364, 16-22	1.6	37
28	Influence of the oxide layer for growth of self-assisted InAs nanowires on Si(111). <i>Nanoscale Research Letters</i> , 2011 , 6, 516	5	27
27	Selective-area chemical beam epitaxy of in-plane InAs one-dimensional channels grown on InP(001), InP(111)B, and InP(011) surfaces. <i>Physical Review Materials</i> , 2019 , 3,	3.2	26
26	Engineering light absorption in single-nanowire solar cells with metal nanoparticles. <i>New Journal of Physics</i> , 2011 , 13, 123026	2.9	23
25	Growth of InAs Wurtzite Nanocrosses from Hexagonal and Cubic Basis. <i>Nano Letters</i> , 2017 , 17, 6090-6096	11.5	22
24	Nanowire-Aperture Probe: Local Enhanced Fluorescence Detection for the Investigation of Live Cells at the Nanoscale. <i>ACS Photonics</i> , 2016 , 3, 1208-1216	6.3	17
23	Modulation of fluorescence signals from biomolecules along nanowires due to interaction of light with oriented nanostructures. <i>Nano Letters</i> , 2015 , 15, 176-81	11.5	16
22	Highly Transparent Gatable Superconducting Shadow Junctions. <i>ACS Nano</i> , 2020 , 14, 14605-14615	16.7	16
21	Semiconductor-Ferromagnetic Insulator-Superconductor Nanowires: Stray Field and Exchange Field. <i>Nano Letters</i> , 2020 , 20, 456-462	11.5	16
20	Morphology and composition of oxidized InAs nanowires studied by combined Raman spectroscopy and transmission electron microscopy. <i>Nanotechnology</i> , 2016 , 27, 305704	3.4	16
19	Superconducting vanadium/indium-arsenide hybrid nanowires. <i>Nanotechnology</i> , 2019 , 30, 294005	3.4	15
18	Direct observation of interface and nanoscale compositional modulation in ternary III-As heterostructure nanowires. <i>Applied Physics Letters</i> , 2013 , 103, 063106	3.4	15
17	Correlation between Electrical Transport and Nanoscale Strain in InAs/InGaAs Core-Shell Nanowires. <i>Nano Letters</i> , 2018 , 18, 4949-4956	11.5	12
16	Ag-catalyzed InAs nanowires grown on transferable graphite flakes. <i>Nanotechnology</i> , 2016 , 27, 365603	3.4	12
15	Coherent Epitaxial Semiconductor-Ferromagnetic Insulator InAs/EuS Interfaces: Band Alignment and Magnetic Structure. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 8780-8787	9.5	10
14	Electrical contacts to single nanowires: a scalable method allowing multiple devices on a chip. Application to a single nanowire radial p-i-n junction. <i>International Journal of Nanotechnology</i> , 2013 , 10, 419	1.5	8
13	The Effect of Bending Deformation on Charge Transport and Electron Effective Mass of p-doped GaAs Nanowires. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019 , 13, 1900134	2.5	6
12	Band Structure Extraction at Hybrid Narrow-Gap Semiconductor-Metal Interfaces. <i>Advanced Science</i> , 2021 , 8, 2003087	13.6	6

11	An STM μ SEM setup for characterizing photon and electron induced effects in single photovoltaic nanowires. <i>Nano Energy</i> , 2018 , 53, 175-181	17.1	4
10	Vapour-liquid-solid growth: Nanowire-quantum dot epitaxy. <i>Nature Materials</i> , 2015 , 14, 757-9	27	3
9	Au-Assisted Substrate-Faceting for Inclined Nanowire Growth. <i>Nano Letters</i> , 2018 , 18, 4115-4122	11.5	3
8	Enhancing the NIR Photocurrent in Single GaAs Nanowires with Radial p-i-n Junctions by Uniaxial Strain. <i>Nano Letters</i> , 2021 , 21, 9038-9043	11.5	3
7	Surface optical phonon propagation in defect modulated nanowires. <i>Journal of Applied Physics</i> , 2017 , 121, 085702	2.5	2
6	Andreev Interference in the Surface Accumulation Layer of Half-Shell InAsSb/Al Hybrid Nanowires.. <i>Advanced Materials</i> , 2022 , e2108878	24	2
5	Signatures of Andreev Blockade in a Double Quantum Dot Coupled to a Superconductor.. <i>Physical Review Letters</i> , 2022 , 128, 046801	7.4	1
4	Electronic Structure of InAs and InSb Surfaces: Density Functional Theory and Angle-Resolved Photoemission Spectroscopy. <i>Advanced Quantum Technologies</i> , 2100033	4.3	1
3	Multiterminal Quantized Conductance in InSb Nanocrosses. <i>Advanced Materials</i> , 2021 , 33, e2100078	24	1
2	Atomic Scale Characterization on III-V Based Heterostructure Nanowire Interfaces 2016 , 544-545		
1	The Effect of Bending Deformation on Charge Transport and Electron Effective Mass of p-doped GaAs Nanowires. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019 , 13, 1970033	2.5	