

# Heidi Potts

## List of Publications by Year in descending order

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31  
papers

766  
citations

686830

13  
h-index

580395

25  
g-index

31  
all docs

31  
docs citations

31  
times ranked

1153  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microscopic Coexistence of Superconductivity and Magnetism in $\text{BaKFe}_2\text{As}_2$ . <i>Physical Review Letters</i> , 2011, 107, 237001.	2.9	102
2	Template-Assisted Scalable Nanowire Networks. <i>Nano Letters</i> , 2018, 18, 2666-2671.	4.5	92
3	Wetting of Ga on $\text{SiO}_x$ and Its Impact on GaAs Nanowire Growth. <i>Crystal Growth and Design</i> , 2015, 15, 3105-3109.	1.4	65
4	Bistability of Contact Angle and Its Role in Achieving Quantum-Thin Self-Assisted GaAs nanowires. <i>Nano Letters</i> , 2018, 18, 49-57.	4.5	62
5	From Twinning to Pure Zincblende Catalyst-Free InAs(Sb) Nanowires. <i>Nano Letters</i> , 2016, 16, 637-643.	4.5	56
6	Fundamental aspects to localize self-catalyzed III-V nanowires on silicon. <i>Nature Communications</i> , 2019, 10, 869.	5.8	49
7	Engineering the Size Distributions of Ordered GaAs Nanowires on Silicon. <i>Nano Letters</i> , 2017, 17, 4101-4108.	4.5	47
8	Towards defect-free 1-D GaAs/AlGaAs heterostructures based on GaAs nanomembranes. <i>Nanoscale</i> , 2015, 7, 19453-19460.	2.8	46
9	Impact of the Ga Droplet Wetting, Morphology, and Pinholes on the Orientation of GaAs Nanowires. <i>Crystal Growth and Design</i> , 2016, 16, 5781-5786.	1.4	38
10	High Yield of GaAs Nanowire Arrays on Si Mediated by the Pinning and Contact Angle of Ga. <i>Nano Letters</i> , 2015, 15, 2869-2874.	4.5	34
11	High Electron Mobility and Insights into Temperature-Dependent Scattering Mechanisms in InAsSb Nanowires. <i>Nano Letters</i> , 2018, 18, 3703-3710.	4.5	31
12	Optimizing the yield of A-polar GaAs nanowires to achieve defect-free zinc blende structure and enhanced optical functionality. <i>Nanoscale</i> , 2018, 10, 17080-17091.	2.8	31
13	Tuning growth direction of catalyst-free InAs(Sb) nanowires with indium droplets. <i>Nanotechnology</i> , 2017, 28, 054001.	1.3	24
14	Synthesis, Morphological, and Electro-optical Characterizations of Metal/Semiconductor Nanowire Heterostructures. <i>Nano Letters</i> , 2016, 16, 3507-3513.	4.5	14
15	Electrical control of spins and giant g-factors in ring-like coupled quantum dots. <i>Nature Communications</i> , 2019, 10, 5740.	5.8	11
16	Segregation scheme of indium in AlGaInAs nanowire shells. <i>Physical Review Materials</i> , 2019, 3, .	0.9	11
17	Anisotropic-Strain-Induced Band Gap Engineering in Nanowire-Based Quantum Dots. <i>Nano Letters</i> , 2018, 18, 2393-2401.	4.5	10
18	Nonstoichiometric Low-Temperature Grown GaAs Nanowires. <i>Nano Letters</i> , 2015, 15, 6440-6445.	4.5	9

#	ARTICLE	IF	CITATIONS
19	Questioning liquid droplet stability on nanowire tips: from theory to experiment. <i>Nanotechnology</i> , 2019, 30, 285604.	1.3	9
20	Molecular beam epitaxy of InAs nanowires in SiO <sub>2</sub> nanotube templates: challenges and prospects for integration of III-Vs on Si. <i>Nanotechnology</i> , 2016, 27, 455601.	1.3	7
21	Effects of Parity and Symmetry on the Aharonov-Bohm Phase of a Quantum Ring. <i>Nano Letters</i> , 2022, 22, 334-339.	4.5	5
22	Tilting Catalyst-Free InAs Nanowires by 3D-Twinning and Unusual Growth Directions. <i>Crystal Growth and Design</i> , 2017, 17, 3596-3605.	1.4	4
23	Symmetry-controlled singlet-triplet transition in a double-barrier quantum ring. <i>Physical Review B</i> , 2021, 104, .	1.1	4
24	Unveiling Temperature-Dependent Scattering Mechanisms in Semiconductor Nanowires Using Optical-Pump Terahertz-Probe Spectroscopy. , 2019, , .		2
25	Selective tuning of spin-orbital Kondo contributions in parallel-coupled quantum dots. <i>Physical Review B</i> , 2020, 101, .	1.1	2
26	Nanoporous silicon tubes: the role of geometry in nanostructure formation and application to light emitting diodes. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 265101.	1.3	1
27	Low-temperature ozone-ambient grown native oxide passivation of crystalline silicon. , 2015, , .		0
28	Optical properties of GaAsSb nanowire networks and GaAs nanomembranes. , 2016, , .		0
29	Quantum heterostructures based on GaAs nanomembranes for photonic applications. , 2016, , .		0
30	Understanding and exploiting optical properties in semiconductor nanowires for solar energy conversion. , 2016, , .		0
31	Bi-stability of contact angle and its role in tuning the morphology of self-assisted GaAs nanowires. , 2018, , .		0