Heidi Potts

List of Publications by Year
in descending order

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	Effects of Parity and Symmetry on the Aharonovâ€“Bohm Phase of a Quantum Ring. Nano Letters, 2022, 22, 334-339.	4.5	5
2	Symmetry-controlled singlet-triplet transition in a double-barrier quantum ring. Physical Review B, 2021, 104, .	1.1	4
3	Selective tuning of spin-orbital Kondo contributions in parallel-coupled quantum dots. Physical Review B, 2020, 101, .	1.1	2
4	Questioning liquid droplet stability on nanowire tips: from theory to experiment. Nanotechnology, 2019, 30, 285604.	1.3	9
5	Fundamental aspects to localize self-catalyzed III-V nanowires on silicon. Nature Communications, 2019, 10, 869.	5.8	49
6	Unveiling Temperature-Dependent Scattering Mechanisms in Semiconductor Nanowires Using Optical-Pump Terahertz-Probe Spectroscopy. , 2019, , .		2
7	Electrical control of spins and giant g-factors in ring-like coupled quantum dots. Nature Communications, 2019, 10, 5740.	5.8	11
8	Segregation scheme of indium in AlGaInAs nanowire shells. Physical Review Materials, 2019, 3, .	0.9	11
9	Bistability of Contact Angle and Its Role in Achieving Quantum-Thin Self-Assisted GaAs nanowires. Nano Letters, 2018, 18, 49-57.	4.5	62
10	High Electron Mobility and Insights into Temperature-Dependent Scattering Mechanisms in InAsSb Nanowires. Nano Letters, 2018, 18, 3703-3710.	4.5	31
11	Anisotropic-Strain-Induced Band Gap Engineering in Nanowire-Based Quantum Dots. Nano Letters, 2018, 18, 2393-2401.	4.5	10
12	Template-Assisted Scalable Nanowire Networks. Nano Letters, 2018, 18, 2666-2671.	4.5	92
13	Optimizing the yield of A-polar GaAs nanowires to achieve defect-free zinc blende structure and enhanced optical functionality. Nanoscale, 2018, 10, 17080-17091.	2.8	31
14	Bi-stability of contact angle and its role in tuning the morphology of self-assisted GaAs nanowires. , 2018, , .		0
15	Nanoporous silicon tubes: the role of geometry in nanostructure formation and application to light emitting diodes. Journal Physics D: Applied Physics, 2017, 50, 265101.	1.3	1
16	Engineering the Size Distributions of Ordered GaAs Nanowires on Silicon. Nano Letters, 2017, 17, 4101-4108.	4.5	47
17	Tilting Catalyst-Free InAs Nanowires by 3D-Twinning and Unusual Growth Directions. Crystal Growth and Design, 2017, 17, 3596-3605.	1.4	4
18	Tuning growth direction of catalyst-free InAs(Sb) nanowires with indium droplets. Nanotechnology, 2017, 28, 054001.	1.3	24

#	Article	IF	Citations
19	Synthesis, Morphological, and Electro-optical Characterizations of Metal/Semiconductor Nanowire Heterostructures. Nano Letters, 2016, 16, 3507-3513.	4.5	14
20	Impact of the Ga Droplet Wetting, Morphology, and Pinholes on the Orientation of GaAs Nanowires. Crystal Growth and Design, 2016, 16, 5781-5786.	1.4	38
21	Optical properties of GaAsSb nanowire networks and GaAs nanomembranes. , 2016, , .		0
22	Quantum heterostructures based on GaAs nanomembranes for photonic applications. , 2016, , .		0
23	Understanding and exploiting optical properties in semiconductor nanowires for solar energy conversion. , 2016, , .		0
24	Molecular beam epitaxy of InAs nanowires in SiO2nanotube templates: challenges and prospects for integration of IIIâ€“Vs on Si. Nanotechnology, 2016, 27, 455601.	1.3	7
25	From Twinning to Pure Zincblende Catalyst-Free InAs(Sb) Nanowires. Nano Letters, 2016, 16, 637-643.	4.5	56
26	Wetting of Ga on SiO_x and Its Impact on GaAs Nanowire Growth. Crystal Growth and Design, 2015, 15, 3105-3109.	1.4	65
27	Low-temperature ozone-ambient grown native oxide passivation of crystalline silicon. , 2015, , .		0
28	High Yield of GaAs Nanowire Arrays on Si Mediated by the Pinning and Contact Angle of Ga. Nano Letters, 2015, 15, 2869-2874.	4.5	34
29	Nonstoichiometric Low-Temperature Grown GaAs Nanowires. Nano Letters, 2015, 15, 6440-6445.	4.5	9
30	Towards defect-free 1-D GaAs/AlGaAs heterostructures based on GaAs nanomembranes. Nanoscale, 2015, 7, 19453-19460.	2.8	46
31	Microscopic Coexistence of Superconductivity and Magnetism in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Ba</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="bold">K</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi>Fe</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>As</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2011, 107, 237001.	7.9	102