

Lincoln J Lauhon

List of Publications by Year in descending order

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183
papers

24,480
citations

18482

62
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6996

154
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189
all docs

189
docs citations

189
times ranked

27061
citing authors

#	ARTICLE	IF	CITATIONS
1	Growth of nanowire superlattice structures for nanoscale photonics and electronics. <i>Nature</i> , 2002, 415, 617-620.	27.8	2,562
2	Emerging Device Applications for Semiconducting Two-Dimensional Transition Metal Dichalcogenides. <i>ACS Nano</i> , 2014, 8, 1102-1120.	14.6	2,307
3	Logic Gates and Computation from Assembled Nanowire Building Blocks. <i>Science</i> , 2001, 294, 1313-1317.	12.6	2,056
4	Epitaxial core-shell and core-multishell nanowire heterostructures. <i>Nature</i> , 2002, 420, 57-61.	27.8	1,980
5	Effective Passivation of Exfoliated Black Phosphorus Transistors against Ambient Degradation. <i>Nano Letters</i> , 2014, 14, 6964-6970.	9.1	1,294
6	Carbon nanomaterials for electronics, optoelectronics, photovoltaics, and sensing. <i>Chemical Society Reviews</i> , 2013, 42, 2824-2860.	38.1	1,105
7	Diameter-controlled synthesis of single-crystal silicon nanowires. <i>Applied Physics Letters</i> , 2001, 78, 2214-2216.	3.3	1,078
8	High-resolution detection of Au catalyst atoms in Si nanowires. <i>Nature Nanotechnology</i> , 2008, 3, 168-173.	31.5	575
9	Gate-tunable memristive phenomena mediated by grain boundaries in single-layer MoS ₂ . <i>Nature Nanotechnology</i> , 2015, 10, 403-406.	31.5	564
10	Direct measurement of dopant distribution in an individual vapour-liquid-solid nanowire. <i>Nature Nanotechnology</i> , 2009, 4, 315-319.	31.5	379
11	Gate-tunable carbon nanotube-MoS ₂ heterojunction p-n diode. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 18076-18080.	7.1	373
12	Band-like transport in high mobility unencapsulated single-layer MoS ₂ transistors. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	359
13	Growth and transport properties of complementary germanium nanowire field-effect transistors. <i>Applied Physics Letters</i> , 2004, 84, 4176-4178.	3.3	351
14	Hybrid, Gate-Tunable, van der Waals p-n Heterojunctions from Pentacene and MoS ₂ . <i>Nano Letters</i> , 2016, 16, 497-503.	9.1	295
15	Influence of Stoichiometry on the Optical and Electrical Properties of Chemical Vapor Deposition Derived MoS ₂ . <i>ACS Nano</i> , 2014, 8, 10551-10558.	14.6	281
16	Demonstration of an Electrochemical Liquid Cell for Operando Transmission Electron Microscopy Observation of the Lithiation/Delithiation Behavior of Si Nanowire Battery Anodes. <i>Nano Letters</i> , 2013, 13, 6106-6112.	9.1	265
17	Direct Observation of the Quantum Tunneling of Single Hydrogen Atoms with a Scanning Tunneling Microscope. <i>Physical Review Letters</i> , 2000, 85, 4566-4569.	7.8	241
18	Low-Frequency Electronic Noise in Single-Layer MoS ₂ Transistors. <i>Nano Letters</i> , 2013, 13, 4351-4355.	9.1	221

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19	Semiconductor nanowire heterostructures. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 1247-1260.	3.4	220
20	Three-Dimensional Nanoscale Composition Mapping of Semiconductor Nanowires. Nano Letters, 2006, 6, 181-185.	9.1	214
21	Near-field scanning photocurrent microscopy of a nanowire photodetector. Applied Physics Letters, 2005, 87, 043111.	3.3	196
22	Direct Correlation of Structural Domain Formation with the Metal Insulator Transition in a VO ₂ Nanobeam. Nano Letters, 2009, 9, 4527-4532.	9.1	195
23	Vibrationally Mediated Negative Differential Resistance in a Single Molecule. Physical Review Letters, 2000, 85, 1918-1921.	7.8	194
24	Elucidating the Photoresponse of Ultrathin MoS ₂ Field-Effect Transistors by Scanning Photocurrent Microscopy. Journal of Physical Chemistry Letters, 2013, 4, 2508-2513.	4.6	190
25	Symmetry Selection Rules for Vibrationally Inelastic Tunneling. Physical Review Letters, 2001, 86, 2593-2596.	7.8	182
26	A synergistic assembly of nanoscale lamellar photoconductor hybrids. Nature Materials, 2009, 8, 68-75.	27.5	174
27	Single-Molecule Chemistry and Vibrational Spectroscopy: Pyridine and Benzene on Cu(001). Journal of Physical Chemistry A, 2000, 104, 2463-2467.	2.5	162
28	Single-molecule vibrational spectroscopy and microscopy: CO on Cu(001) and Cu(110). Physical Review B, 1999, 60, R8525-R8528.	3.2	157
29	Stoichiometry Engineering of Monoclinic to Rutile Phase Transition in Suspended Single Crystalline Vanadium Dioxide Nanobeams. Nano Letters, 2011, 11, 1443-1447.	9.1	157
30	Fundamental Performance Limits of Carbon Nanotube Thin-Film Transistors Achieved Using Hybrid Molecular Dielectrics. ACS Nano, 2012, 6, 7480-7488.	14.6	142
31	Investigation of Band-Offsets at Monolayer/Multilayer MoS ₂ Junctions by Scanning Photocurrent Microscopy. Nano Letters, 2015, 15, 2278-2284.	9.1	141
32	Nanowire Heterostructures. Annual Review of Materials Research, 2013, 43, 451-479.	9.3	140
33	Alternative catalysts for VSS growth of silicon and germanium nanowires. Journal of Materials Chemistry, 2009, 19, 849.	6.7	136
34	Electronic Origin for the Phase Transition from Amorphous Li ₁₅ Si ₄ to Crystalline Li ₁₅ Si ₄ . ACS Nano, 2013, 7, 6303-6309.	14.6	135
35	Low-Temperature Atomic Layer Deposition of MoS ₂ Films. Angewandte Chemie - International Edition, 2017, 56, 4991-4995.	13.8	127
36	Broadband Plasmonic Microlenses Based on Patches of Nanoholes. Nano Letters, 2010, 10, 4111-4116.	9.1	120

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37	Relative Influence of Surface States and Bulk Impurities on the Electrical Properties of Ge Nanowires. Nano Letters, 2009, 9, 3268-3274.	9.1	115
38	Effects of temperature and other experimental variables on single molecule vibrational spectroscopy with the scanning tunneling microscope. Review of Scientific Instruments, 2001, 72, 216-223.	1.3	113
39	Nonuniform Nanowire Doping Profiles Revealed by Quantitative Scanning Photocurrent Microscopy. Advanced Materials, 2009, 21, 3067-3072.	21.0	113
40	Ordered Stacking Fault Arrays in Silicon Nanowires. Nano Letters, 2009, 9, 2774-2779.	9.1	113
41	Control and Characterization of a Multistep Unimolecular Reaction. Physical Review Letters, 2000, 84, 1527-1530.	7.8	104
42	Three-Dimensional Mapping of Quantum Wells in a GaN/InGaN Core-Shell Nanowire Light-Emitting Diode Array. Nano Letters, 2013, 13, 4317-4325.	9.1	96
43	Quantitative Measurement of the Electron and Hole Mobility-Lifetime Products in Semiconductor Nanowires. Nano Letters, 2006, 6, 948-952.	9.1	95
44	Dendritic Nanowire Growth Mediated by a Self-Assembled Catalyst. Advanced Materials, 2005, 17, 598-602.	21.0	94
45	Template-Assisted Scalable Nanowire Networks. Nano Letters, 2018, 18, 2666-2671.	9.1	92
46	Space-charge-limited current in nanowires depleted by oxygen adsorption. Applied Physics Letters, 2006, 89, 143102.	3.3	90
47	Large-Area, Low-Voltage, Antiamipolar Heterojunctions from Solution-Processed Semiconductors. Nano Letters, 2015, 15, 416-421.	9.1	87
48	Nonuniform doping distribution along silicon nanowires measured by Kelvin probe force microscopy and scanning photocurrent microscopy. Applied Physics Letters, 2009, 95, .	3.3	84
49	Obtaining Uniform Dopant Distributions in VLS-Grown Si Nanowires. Nano Letters, 2011, 11, 183-187.	9.1	81
50	Plasmonic Lattice Lenses for Multiwavelength Achromatic Focusing. ACS Nano, 2016, 10, 10275-10282.	14.6	80
51	Measuring Three-Dimensional Strain and Structural Defects in a Single InGaAs Nanowire Using Coherent X-ray Multiangle Bragg Projection Ptychography. Nano Letters, 2018, 18, 811-819.	9.1	80
52	Displacement detection of silicon nanowires by polarization-enhanced fiber-optic interferometry. Applied Physics Letters, 2008, 93, .	3.3	76
53	Nanomechanical detection of nuclear magnetic resonance using a silicon nanowire oscillator. Physical Review B, 2012, 85, .	3.2	76
54	Spatial Mapping of Efficiency of GaN/InGaN Nanowire Array Solar Cells Using Scanning Photocurrent Microscopy. Nano Letters, 2013, 13, 5123-5128.	9.1	76

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55	Truly Electroforming-Free and Low-Energy Memristors with Preconditioned Conductive Tunneling Paths. <i>Advanced Functional Materials</i> , 2017, 27, 1702010.	14.9	75
56	Subwavelength Lattice Optics by Evolutionary Design. <i>Nano Letters</i> , 2014, 14, 7195-7200.	9.1	73
57	Atom Probe Tomography of <i>c</i> -Axis GaN Nanowires: Analysis of Nonstoichiometric Evaporation Behavior. <i>ACS Nano</i> , 2012, 6, 3898-3906.	14.6	72
58	Single molecule thermal rotation and diffusion: Acetylene on Cu(001). <i>Journal of Chemical Physics</i> , 1999, 111, 5633-5636.	3.0	67
59	Quantitatively Enhanced Reliability and Uniformity of High- ϵ Dielectrics on Graphene Enabled by Self-Assembled Seeding Layers. <i>Nano Letters</i> , 2013, 13, 1162-1167.	9.1	67
60	Large-Area, Electronically Monodisperse, Aligned Single-Walled Carbon Nanotube Thin Films Fabricated by Evaporation-Driven Self-Assembly. <i>Small</i> , 2013, 9, 45-51.	10.0	67
61	Silicon Nanowire Polytypes: Identification by Raman Spectroscopy, Generation Mechanism, and Misfit Strain in Homostructures. <i>ACS Nano</i> , 2011, 5, 8958-8966.	14.6	66
62	Alloy Fluctuations Act as Quantum Dot-like Emitters in GaAs-AlGaAs Core-Shell Nanowires. <i>ACS Nano</i> , 2015, 9, 8335-8343.	14.6	65
63	Electronic and vibrational excitation of single molecules with a scanning tunneling microscope. <i>Surface Science</i> , 2000, 451, 219-225.	1.9	64
64	Vanadium oxide nanowire phase and orientation analyzed by Raman spectroscopy. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	64
65	Spatially Resolved Plasmonically Enhanced Photocurrent from Au Nanoparticles on a Si Nanowire. <i>Nano Letters</i> , 2011, 11, 2731-2734.	9.1	63
66	Langevin-like giant magnetoresistance in Co-Cu superlattices. <i>Physical Review B</i> , 1994, 49, 1521-1523.	3.2	62
67	Tomographic analysis of dilute impurities in semiconductor nanostructures. <i>Journal of Solid State Chemistry</i> , 2008, 181, 1642-1649.	2.9	62
68	Demonstration of Confined Electron Gas and Steep-Slope Behavior in Delta-Doped GaAs-AlGaAs Core-Shell Nanowire Transistors. <i>Nano Letters</i> , 2015, 15, 3295-3302.	9.1	60
69	Ferromagnetic Self-Assembled Quantum Dots on Semiconductor Nanowires. <i>Nano Letters</i> , 2006, 6, 50-54.	9.1	59
70	Catalyst Incorporation at Defects during Nanowire Growth. <i>Nano Letters</i> , 2012, 12, 167-171.	9.1	58
71	Temperature dependent photoluminescence of single CdS nanowires. <i>Applied Physics Letters</i> , 2006, 89, 123123.	3.3	56
72	Optical Control of Mechanical Mode-Coupling within a MoS ₂ Resonator in the Strong-Coupling Regime. <i>Nano Letters</i> , 2015, 15, 6727-6731.	9.1	55

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73	Emergent Optoelectronic Properties of Mixed-Dimensional Heterojunctions. <i>Accounts of Chemical Research</i> , 2020, 53, 763-772.	15.6	55
74	Identification of an Intrinsic Source of Doping Inhomogeneity in Vapor-Phase-Grown Nanowires. <i>Nano Letters</i> , 2013, 13, 199-206.	9.1	54
75	Suppressing Ambient Degradation of Exfoliated InSe Nanosheet Devices via Seeded Atomic Layer Deposition Encapsulation. <i>Nano Letters</i> , 2018, 18, 7876-7882.	9.1	54
76	Electron-Rich Driven Electrochemical Solid-State Amorphization in Li-Si Alloys. <i>Nano Letters</i> , 2013, 13, 4511-4516.	9.1	51
77	Self-Aligned van der Waals Heterojunction Diodes and Transistors. <i>Nano Letters</i> , 2018, 18, 1421-1427.	9.1	51
78	Direct comparisons of rates for low temperature diffusion of hydrogen and deuterium on Cu(001) from quantum mechanical calculations and scanning tunneling microscopy experiments. <i>Journal of Chemical Physics</i> , 2001, 115, 5620-5624.	3.0	47
79	Composition analysis of single semiconductor nanowires using pulsed-laser atom probe tomography. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 85, 271-275.	2.3	47
80	Extraordinary Dynamic Mechanical Response of Vanadium Dioxide Nanowires around the Insulator to Metal Phase Transition. <i>Nano Letters</i> , 2014, 14, 1898-1902.	9.1	45
81	Vapor-Phase Synthesis of Ge Nanowires from Vapor-Phase-Deposited Manganese Germanide Seeds. <i>Journal of the American Chemical Society</i> , 2007, 129, 10670-10671.	13.7	44
82	Correlating dopant distributions and electrical properties of boron-doped silicon nanowires. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	44
83	Scanning Photocurrent Microscopy Analysis of Si Nanowire Field-Effect Transistors Fabricated by Surface Etching of the Channel. <i>Nano Letters</i> , 2009, 9, 1903-1908.	9.1	44
84	Tuning Lasing Emission toward Long Wavelengths in GaAs-(In,Al)GaAs Core-Shell Nanowires. <i>Nano Letters</i> , 2018, 18, 6292-6300.	9.1	43
85	Atom-Probe Tomography of Semiconductor Materials and Device Structures. <i>MRS Bulletin</i> , 2009, 34, 738-743.	3.5	42
86	Diameter and Polarization-Dependent Raman Scattering Intensities of Semiconductor Nanowires. <i>Nano Letters</i> , 2012, 12, 2266-2271.	9.1	42
87	Origin of Polytype Formation in VLS-Grown Ge Nanowires through Defect Generation and Nanowire Kinking. <i>Nano Letters</i> , 2013, 13, 3947-3952.	9.1	40
88	Spatially Resolved Correlation of Active and Total Doping Concentrations in VLS Grown Nanowires. <i>Nano Letters</i> , 2013, 13, 2598-2604.	9.1	40
89	In Situ Electron Microscopy Four-Point Electromechanical Characterization of Freestanding Metallic and Semiconducting Nanowires. <i>Small</i> , 2014, 10, 725-733.	10.0	40
90	Evolutionary Design and Prototyping of Single Crystalline Titanium Nitride Lattice Optics. <i>ACS Photonics</i> , 2017, 4, 606-612.	6.6	40

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91	Resonant Raman scattering from CdS nanowires. <i>Applied Physics Letters</i> , 2006, 88, 043118.	3.3	39
92	Direct Measurement of Individual Deep Traps in Single Silicon Nanowires. <i>Nano Letters</i> , 2011, 11, 2499-2502.	9.1	39
93	Low-temperature photoluminescence imaging and time-resolved spectroscopy of single CdS nanowires. <i>Applied Physics Letters</i> , 2006, 89, 053119.	3.3	38
94	Weibull Analysis of Dielectric Breakdown in a Self-Assembled Nanodielectric for Organic Transistors. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 3292-3297.	4.6	38
95	Local photocurrent mapping as a probe of contact effects and charge carrier transport in semiconductor nanowire devices. <i>Journal of Vacuum Science & Technology B</i> , 2006, 24, 2172.	1.3	36
96	Dopant Diffusion and Activation in Silicon Nanowires Fabricated by ex Situ Doping: A Correlative Study via Atom-Probe Tomography and Scanning Tunneling Spectroscopy. <i>Nano Letters</i> , 2016, 16, 4490-4500.	9.1	36
97	High-Field Transport and Thermal Reliability of Sorted Carbon Nanotube Network Devices. <i>ACS Nano</i> , 2013, 7, 482-490.	14.6	35
98	On the reliable analysis of indium mole fraction within $\text{In}_x\text{Ga}_{1-x}\text{N}$ quantum wells using atom probe tomography. <i>Applied Physics Letters</i> , 2014, 104, 152102.	3.3	35
99	Light and complex 3D MoS_2 /graphene heterostructures as efficient catalysts for the hydrogen evolution reaction. <i>Nanoscale</i> , 2020, 12, 2715-2725.	5.6	35
100	Direct Detection of Hole Gas in $\text{Ge}^{\sim}\text{Si}$ Core-Shell Nanowires by Enhanced Raman Scattering. <i>Nano Letters</i> , 2010, 10, 4483-4487.	9.1	34
101	Rational Control of Diffraction and Interference from Conformal Phase Gratings: Toward High-Resolution 3D Nanopatterning. <i>Advanced Optical Materials</i> , 2014, 2, 1213-1220.	7.3	33
102	Inducing and Observing the Abstraction of a Single Hydrogen Atom in Bimolecular Reactions with a Scanning Tunneling Microscope. <i>Journal of Physical Chemistry B</i> , 2001, 105, 3987-3992.	2.6	32
103	STM Images and Chemisorption Bond Parameters of Acetylene, Ethynyl, and Dicarbon Chemisorbed on Copper. <i>Journal of Physical Chemistry B</i> , 2002, 106, 8161-8171.	2.6	32
104	Syntaxial Growth of Ge/Mn-Germanide Nanowire Heterostructures. <i>Nano Letters</i> , 2008, 8, 2669-2673.	9.1	32
105	Controlling the nonlinearity of silicon nanowire resonators using active feedback. <i>Applied Physics Letters</i> , 2009, 95, 123116.	3.3	32
106	Two-dimensional charge carrier distribution in MoS_2 monolayer and multilayers. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	32
107	Barrier Height Measurement of Metal Contacts to Si Nanowires Using Internal Photoemission of Hot Carriers. <i>Nano Letters</i> , 2013, 13, 6183-6188.	9.1	31
108	Charge Separation at Mixed-Dimensional Single and Multilayer MoS_2 /Silicon Nanowire Heterojunctions. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 16760-16767.	8.0	31

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109	Metal-Free Carbon-Based Nanomaterial Coatings Protect Silicon Photoanodes in Solar Water-Splitting. <i>Nano Letters</i> , 2016, 16, 7370-7375.	9.1	30
110	Atomic Layer Deposition of Molybdenum Oxides with Tunable Stoichiometry Enables Controllable Doping of MoS ₂ . <i>Chemistry of Materials</i> , 2018, 30, 3628-3632.	6.7	29
111	Increased Yield and Uniformity of Vanadium Dioxide Nanobeam Growth via Two-Step Physical Vapor Transport Process. <i>Crystal Growth and Design</i> , 2012, 12, 1383-1387.	3.0	27
112	Nanoscale Fourier-Transform Magnetic Resonance Imaging. <i>Physical Review X</i> , 2013, 3, .	8.9	27
113	Spin transport and Hanle effect in silicon nanowires using graphene tunnel barriers. <i>Nature Communications</i> , 2015, 6, 7541.	12.8	26
114	All-Printed Ultrahigh-Responsivity MoS ₂ Nanosheet Photodetectors Enabled by Megasonic Exfoliation. <i>Advanced Materials</i> , 2022, 34, .	21.0	25
115	High-Resolution Nanoscale Solid-State Nuclear Magnetic Resonance Spectroscopy. <i>Physical Review X</i> , 2018, 8, .	8.9	24
116	Doping of Self-Catalyzed Nanowires under the Influence of Droplets. <i>Nano Letters</i> , 2018, 18, 81-87.	9.1	24
117	Nonlinear Mode Coupling and One-to-One Internal Resonances in a Monolayer WS ₂ Nanoresonator. <i>Nano Letters</i> , 2019, 19, 4052-4059.	9.1	24
118	Supersonic jet epitaxy of aluminum nitride on silicon (100). <i>Journal of Applied Physics</i> , 1996, 79, 7667-7671.	2.5	23
119	The initiation and characterization of single bimolecular reactions with a scanning tunneling microscope. <i>Faraday Discussions</i> , 2000, 117, 249-255.	3.2	23
120	Growth of Ge Nanowires from Au-Cu Alloy Nanoparticle Catalysts Synthesized from Aqueous Solution. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 3360-3365.	4.6	23
121	Direct measurement of nanowire Schottky junction depletion region. <i>Applied Physics Letters</i> , 2011, 99, 223511.	3.3	23
122	Enhanced radiative emission from monolayer MoS ₂ films using a single plasmonic dimer nanoantenna. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	23
123	Wafer-scale solution-derived molecular gate dielectrics for low-voltage graphene electronics. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	22
124	Control of interlayer physics in 2H transition metal dichalcogenides. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	21
125	Strain Mapping of CdTe Grains in Photovoltaic Devices. <i>IEEE Journal of Photovoltaics</i> , 2019, 9, 1790-1799.	2.5	20
126	Multimodal X-ray imaging of grain-level properties and performance in a polycrystalline solar cell. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 1316-1321.	2.4	20

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127	Quantum Transport and Sub-Band Structure of Modulation-Doped GaAs/AlAs Core-Shell Superlattice Nanowires. Nano Letters, 2017, 17, 4886-4893.	9.1	18
128	Three-dimensional atomic-scale mapping of Pd in Ni _{1-x} Pd _x Si(100) thin films. Applied Physics Letters, 2007, 91, 113106.	3.3	17
129	Tomographic study of atomic-scale redistribution of platinum during the silicidation of Ni _{0.95} Pt _{0.05} /Si(100) thin films. Applied Physics Letters, 2009, 94, 113103.	3.3	17
130	Lift-out procedures for atom probe tomography targeting nanoscale features in core-shell nanowire heterostructures. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 656-661.	0.8	17
131	Suppression of alloy fluctuations in GaAs-AlGaAs core-shell nanowires. Applied Physics Letters, 2016, 109, .	3.3	17
132	Identifying Excitation and Emission Rate Contributions to Plasmon-Enhanced Photoluminescence from Monolayer MoS ₂ Using a Tapered Gold Nanoantenna. ACS Photonics, 2017, 4, 1602-1606.	6.6	17
133	Molecular-Scale Characterization of Photoinduced Charge Separation in Mixed-Dimensional InSe/Organic van der Waals Heterostructures. ACS Nano, 2020, 14, 3509-3518.	14.6	17
134	Atypical Self-Activation of Ga Dopant for Ge Nanowire Devices. Nano Letters, 2011, 11, 3108-3112.	9.1	16
135	Nanowire Kinking Modulates Doping Profiles by Reshaping the Liquid-Solid Growth Interface. Nano Letters, 2017, 17, 4518-4525.	9.1	16
136	Charge Separation in Epitaxial SnS/MoS ₂ Vertical Heterojunctions Grown by Low-Temperature Pulsed MOCVD. ACS Applied Materials & Interfaces, 2019, 11, 40543-40550.	8.0	16
137	Low-Temperature Atomic Layer Deposition of MoS ₂ Films. Angewandte Chemie, 2017, 129, 5073-5077.	2.0	15
138	Atomic Structural Analysis of Nanowire Defects and Polytypes Enabled Through Cross-Sectional Lattice Imaging. Small, 2012, 8, 1717-1724.	10.0	13
139	Correlated Chemical and Electrically Active Dopant Analysis in Catalyst-Free Si-Doped InAs Nanowires. ACS Nano, 2018, 12, 1603-1610.	14.6	13
140	Criteria and considerations for preparing atom-probe tomography specimens of nanomaterials utilizing an encapsulation methodology. Ultramicroscopy, 2018, 184, 225-233.	1.9	13
141	He-Ion Microscopy as a High-Resolution Probe for Complex Quantum Heterostructures in Core-Shell Nanowires. Nano Letters, 2018, 18, 3911-3919.	9.1	13
142	Connecting Composition-Driven Faceting with Facet-Driven Composition Modulation in GaAs-AlGaAs Core-Shell Nanowires. Nano Letters, 2018, 18, 5179-5185.	9.1	13
143	Remote Doping of Scalable Nanowire Branches. Nano Letters, 2020, 20, 3577-3584.	9.1	13
144	Electron Tomography of Au-Catalyzed Semiconductor Nanowires. Journal of Physical Chemistry C, 2013, 117, 1059-1063.	3.1	12

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145	Near-field microwave microscopy of high- κ oxides grown on graphene with an organic seeding layer. Applied Physics Letters, 2013, 103, .	3.3	12
146	Energy Frontier Research Center for Solid-State Lighting Science: Exploring New Materials Architectures and Light Emission Phenomena. Journal of Physical Chemistry C, 2014, 118, 13330-13345.	3.1	12
147	Exaggerated sensitivity in photodetectors with internal gain. Nature Photonics, 2021, 15, 714-714.	31.4	12
148	A New Approach to Designing High-Sensitivity Low-Dimensional Photodetectors. Nano Letters, 2021, 21, 9838-9844.	9.1	12
149	Correlated Nanoscale Analysis of the Emission from Wurtzite versus Zincblende (In,Ga)As/GaAs Nanowire Core-Shell Quantum Wells. Nano Letters, 2019, 19, 4448-4457.	9.1	11
150	High resolution strain mapping of a single axially heterostructured nanowire using scanning X-ray diffraction. Nano Research, 2020, 13, 2460-2468.	10.4	11
151	A Method for Directly Correlating Site-Specific Cross-Sectional and Plan-View Transmission Electron Microscopy of Individual Nanostructures. Microscopy and Microanalysis, 2012, 18, 1410-1418.	0.4	10
152	Correlated high-resolution x-ray diffraction, photoluminescence, and atom probe tomography analysis of continuous and discontinuous $\text{In}_x\text{Ga}_{1-x}\text{N}$ quantum wells. Applied Physics Letters, 2015, 107, .	3.3	10
153	Quantitative Statistical Analysis of Dielectric Breakdown in Zirconia-Based Self-Assembled Nanodielectrics. ACS Nano, 2012, 6, 4452-4460.	14.6	9
154	Extrinsic and intrinsic photoresponse in monodisperse carbon nanotube thin film transistors. Applied Physics Letters, 2013, 102, .	3.3	8
155	Atom Probe Tomography Analysis of Ag Doping in 2D Layered Material $(\text{PbSe})_5(\text{Bi})_2(\text{Se})_3$. Nano Letters, 2016, 16, 6064-6069.	9.1	8
156	Impact of Dopant Compensation on Graded p - n Junctions in Si Nanowires. ACS Applied Materials & Interfaces, 2016, 8, 128-134.	8.0	8
157	Selective Area Regrowth Produces Nonuniform Mg Doping Profiles in Nonplanar GaN n Junctions. ACS Applied Electronic Materials, 2021, 3, 704-710.	4.3	8
158	Atomic-level charge transport mechanism in gate-tunable anti-ambipolar van der Waals heterojunctions. Applied Physics Letters, 2021, 118, .	3.3	8
159	GaN lateral polar junction arrays with 3D control of doping by supersaturation modulated growth: A path toward III-nitride superjunctions. Journal of Applied Physics, 2022, 131, 015703.	2.5	8
160	Three-Dimensional Atom-Probe Tomographic Studies of Nickel Monosilicide/Silicon Interfaces on a Subnanometer Scale. ECS Transactions, 2009, 19, 303-314.	0.5	7
161	Correlation and Morphology of Dopant Decomposition in Mn and Co Codoped Ge Epitaxial Films. Journal of Physical Chemistry C, 2012, 116, 276-280.	3.1	7
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