

Lincoln J Lauhon

List of Publications by Year in descending order

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183
papers

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18482

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27061
citing authors

#	ARTICLE	IF	CITATIONS
1	GaN lateral polar junction arrays with 3D control of doping by supersaturation modulated growth: A path toward III-nitride superjunctions. <i>Journal of Applied Physics</i> , 2022, 131, 015703.	2.5	8
2	All-Printed Ultrahigh-Responsivity MoS ₂ Nanosheet Photodetectors Enabled by Megasonic Exfoliation. <i>Advanced Materials</i> , 2022, 34, .	21.0	25
3	Selective Area Regrowth Produces Nonuniform Mg Doping Profiles in Nonplanar GaN p-n Junctions. <i>ACS Applied Electronic Materials</i> , 2021, 3, 704-710.	4.3	8
4	Atomic-level charge transport mechanism in gate-tunable anti-ambipolar van der Waals heterojunctions. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	8
5	Exaggerated sensitivity in photodetectors with internal gain. <i>Nature Photonics</i> , 2021, 15, 714-714.	31.4	12
6	(Invited) Selective Area Etching and Doping of GaN for High-Power Applications. <i>ECS Transactions</i> , 2021, 104, 103-112.	0.5	1
7	A New Approach to Designing High-Sensitivity Low-Dimensional Photodetectors. <i>Nano Letters</i> , 2021, 21, 9838-9844.	9.1	12
8	(Invited) Selective Area Etching and Doping of GaN for High-Power Applications. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 996-996.	0.0	0
9	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
10	High resolution strain mapping of a single axially heterostructured nanowire using scanning X-ray diffraction. <i>Nano Research</i> , 2020, 13, 2460-2468.	10.4	11
11	Molecular-Scale Characterization of Photoinduced Charge Separation in Mixed-Dimensional InSe-Organic van der Waals Heterostructures. <i>ACS Nano</i> , 2020, 14, 3509-3518.	14.6	17
12	Emergent Optoelectronic Properties of Mixed-Dimensional Heterojunctions. <i>Accounts of Chemical Research</i> , 2020, 53, 763-772.	15.6	55
13	Remote Doping of Scalable Nanowire Branches. <i>Nano Letters</i> , 2020, 20, 3577-3584.	9.1	13
14	In Situ Transport Measurements Reveal Source of Mobility Enhancement of MoS ₂ and MoTe ₂ during Dielectric Deposition. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1273-1279.	4.3	4
15	Strain Mapping of CdTe Grains in Photovoltaic Devices. <i>IEEE Journal of Photovoltaics</i> , 2019, 9, 1790-1799.	2.5	20
16	Charge Separation in Epitaxial SnS/MoS ₂ Vertical Heterojunctions Grown by Low-Temperature Pulsed MOCVD. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 40543-40550.	8.0	16
17	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
18	Correlated Nanoscale Analysis of the Emission from Wurtzite versus Zincblende (In,Ga)As/GaAs Nanowire Core-Shell Quantum Wells. <i>Nano Letters</i> , 2019, 19, 4448-4457.	9.1	11

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19	Two-dimensional charge carrier distribution in MoS ₂ monolayer and multilayers. Applied Physics Letters, 2019, 114, .	3.3	32
20	Broad-band high-gain room temperature photodetectors using semiconductor-metal nanoflakes hybrids with wide plasmonic response. Nanoscale, 2019, 11, 6368-6376.	5.6	6
21	Strain-Energy Release in Bent Semiconductor Nanowires Occurring by Polygonization or Nanocrack Formation. ACS Nano, 2019, 13, 3730-3738.	14.6	7
22	An Experimental Setup for Combined In-Vacuo Raman Spectroscopy and Cavity-Interferometry Measurements on TMDC Nano-resonators. Experimental Mechanics, 2019, 59, 349-359.	2.0	6
23	Charge confining mechanisms in III-V semiconductor nanowire. , 2019, , .		0
24	Multimodal X-ray imaging of grain-level properties and performance in a polycrystalline solar cell. Journal of Synchrotron Radiation, 2019, 26, 1316-1321.	2.4	20
25	High-Resolution Nanoscale Solid-State Nuclear Magnetic Resonance Spectroscopy. Physical Review X, 2018, 8, .	8.9	24
26	Charge Separation at Mixed-Dimensional Single and Multilayer MoS ₂ /Silicon Nanowire Heterojunctions. ACS Applied Materials & Interfaces, 2018, 10, 16760-16767.	8.0	31
27	Self-Aligned van der Waals Heterojunction Diodes and Transistors. Nano Letters, 2018, 18, 1421-1427.	9.1	51
28	Correlated Chemical and Electrically Active Dopant Analysis in Catalyst-Free Si-Doped InAs Nanowires. ACS Nano, 2018, 12, 1603-1610.	14.6	13
29	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
30	Template-Assisted Scalable Nanowire Networks. Nano Letters, 2018, 18, 2666-2671.	9.1	92
31	Criteria and considerations for preparing atom-probe tomography specimens of nanomaterials utilizing an encapsulation methodology. Ultramicroscopy, 2018, 184, 225-233.	1.9	13
32	Doping of Self-Catalyzed Nanowires under the Influence of Droplets. Nano Letters, 2018, 18, 81-87.	9.1	24
33	Suppressing Ambient Degradation of Exfoliated InSe Nanosheet Devices via Seeded Atomic Layer Deposition Encapsulation. Nano Letters, 2018, 18, 7876-7882.	9.1	54
34	Perspectives on frontiers in electronic and photonic materials. MRS Bulletin, 2018, 43, 901-908.	3.5	0
35	Tuning Lasing Emission toward Long Wavelengths in GaAs-(In,Al)GaAs Core-Shell Nanowires. Nano Letters, 2018, 18, 6292-6300.	9.1	43
36	Atom probe tomography of nanoscale architectures in functional materials for electronic and photonic applications. Current Opinion in Solid State and Materials Science, 2018, 22, 171-187.	11.5	5

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37	Atomic Layer Deposition of Molybdenum Oxides with Tunable Stoichiometry Enables Controllable Doping of MoS ₂ . Chemistry of Materials, 2018, 30, 3628-3632.	6.7	29
38	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
39	Connecting Composition-Driven Faceting with Facet-Driven Composition Modulation in GaAs-AlGaAs Core-Shell Nanowires. Nano Letters, 2018, 18, 5179-5185.	9.1	13
40	(Invited) Variable Doping of MoS ₂ By Atomic Layer Deposition of Molybdenum Oxides of Controlled Stoichiometry. ECS Meeting Abstracts, 2018, , .	0.0	0
41	Evolutionary Design and Prototyping of Single Crystalline Titanium Nitride Lattice Optics. ACS Photonics, 2017, 4, 606-612.	6.6	40
42	Low-Temperature Atomic Layer Deposition of MoS ₂ Films. Angewandte Chemie, 2017, 129, 5073-5077.	2.0	15
43	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
44	Low-Temperature Atomic Layer Deposition of MoS ₂ Films. Angewandte Chemie - International Edition, 2017, 56, 4991-4995.	13.8	127
45	Enhanced radiative emission from monolayer MoS ₂ films using a single plasmonic dimer nanoantenna. Applied Physics Letters, 2017, 111, .	3.3	23
46	Quantum Transport and Sub-Band Structure of Modulation-Doped GaAs/AlAs Core-Shell Superlattice Nanowires. Nano Letters, 2017, 17, 4886-4893.	9.1	18
47	Truly Electroforming-Free and Low-Energy Memristors with Preconditioned Conductive Tunneling Paths. Advanced Functional Materials, 2017, 27, 1702010.	14.9	75
48	1-D Metal Nanobead Arrays within Encapsulated Nanowires via a Red-Ox-Induced Dewetting: Mechanism Study by Atom-Probe Tomography. Nano Letters, 2017, 17, 7478-7486.	9.1	4
49	Nanowire Kinking Modulates Doping Profiles by Reshaping the Liquid-Solid Growth Interface. Nano Letters, 2017, 17, 4518-4525.	9.1	16
50	Control of interlayer physics in 2H transition metal dichalcogenides. Journal of Applied Physics, 2017, 122, .	2.5	21
51	Epitaxial Heterostructure Nanowires. , 2017, , 3-29.		0
52	Suppression of alloy fluctuations in GaAs-AlGaAs core-shell nanowires. Applied Physics Letters, 2016, 109, .	3.3	17
53	Dopant Diffusion and Activation in Silicon Nanowires Fabricated by ex Situ Doping: A Correlative Study via Atom-Probe Tomography and Scanning Tunneling Spectroscopy. Nano Letters, 2016, 16, 4490-4500.	9.1	36
54	Atom Probe Tomography Analysis of Ag Doping in 2D Layered Material (PbSe) ₅ (Bi) ₂ Se ₃ . Nano Letters, 2016, 16, 6064-6069.	9.1	8

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55	Metal-Free Carbon-Based Nanomaterial Coatings Protect Silicon Photoanodes in Solar Water-Splitting. <i>Nano Letters</i> , 2016, 16, 7370-7375.	9.1	30
56	Plasmonic Lattice Lenses for Multiwavelength Achromatic Focusing. <i>ACS Nano</i> , 2016, 10, 10275-10282.	14.6	80
57	Hybrid, Gate-Tunable, van der Waals π -n Heterojunctions from Pentacene and MoS_2 . <i>Nano Letters</i> , 2016, 16, 497-503.	9.1	295
58	Impact of Dopant Compensation on Graded p - n Junctions in Si Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 128-134.	8.0	8
59	Atom Probe Tomography of Nanowires. <i>Semiconductors and Semimetals</i> , 2015, , 249-278.	0.7	4
60	Large-Area, Low-Voltage, Antiamipolar Heterojunctions from Solution-Processed Semiconductors. <i>Nano Letters</i> , 2015, 15, 416-421.	9.1	87
61	Spin transport and Hanle effect in silicon nanowires using graphene tunnel barriers. <i>Nature Communications</i> , 2015, 6, 7541.	12.8	26
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	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
64	Investigation of Band-Offsets at Monolayer-Multilayer MoS_2 Junctions by Scanning Photocurrent Microscopy. <i>Nano Letters</i> , 2015, 15, 2278-2284.	9.1	141
65	Gate-tunable memristive phenomena mediated by grain boundaries in single-layer MoS_2 . <i>Nature Nanotechnology</i> , 2015, 10, 403-406.	31.5	564
66	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. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	10
67	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
68	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
69	Wafer-scale solution-derived molecular gate dielectrics for low-voltage graphene electronics. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	22
70	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
71	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
72	Emerging Device Applications for Semiconducting Two-Dimensional Transition Metal Dichalcogenides. <i>ACS Nano</i> , 2014, 8, 1102-1120.	14.6	2,307

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73	Subwavelength Lattice Optics by Evolutionary Design. Nano Letters, 2014, 14, 7195-7200.	9.1	73
74	Effective Passivation of Exfoliated Black Phosphorus Transistors against Ambient Degradation. Nano Letters, 2014, 14, 6964-6970.	9.1	1,294
75	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
76	Influence of Stoichiometry on the Optical and Electrical Properties of Chemical Vapor Deposition Derived MoS ₂ . ACS Nano, 2014, 8, 10551-10558.	14.6	281
77	In Situ Electron Microscopy Four-Point Electromechanical Characterization of Freestanding Metallic and Semiconducting Nanowires. Small, 2014, 10, 725-733.	10.0	40
78	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
79	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
80	Origin of Polytype Formation in VLS-Grown Ge Nanowires through Defect Generation and Nanowire Kinking. Nano Letters, 2013, 13, 3947-3952.	9.1	40
81	Spatial Mapping of Efficiency of GaN/InGaN Nanowire Array Solar Cells Using Scanning Photocurrent Microscopy. Nano Letters, 2013, 13, 5123-5128.	9.1	76
82	Barrier Height Measurement of Metal Contacts to Si Nanowires Using Internal Photoemission of Hot Carriers. Nano Letters, 2013, 13, 6183-6188.	9.1	31
83	Demonstration of an Electrochemical Liquid Cell for Operando Transmission Electron Microscopy Observation of the Lithiation/Delithiation Behavior of Si Nanowire Battery Anodes. Nano Letters, 2013, 13, 6106-6112.	9.1	265
84	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
85	Band-like transport in high mobility unencapsulated single-layer MoS ₂ transistors. Applied Physics Letters, 2013, 102, .	3.3	359
86	Electron-Rich Driven Electrochemical Solid-State Amorphization in Li-Si Alloys. Nano Letters, 2013, 13, 4511-4516.	9.1	51
87	Identification of an Intrinsic Source of Doping Inhomogeneity in Vapor-Liquid-Solid-Grown Nanowires. Nano Letters, 2013, 13, 199-206.	9.1	54
88	Carbon nanomaterials for electronics, optoelectronics, photovoltaics, and sensing. Chemical Society Reviews, 2013, 42, 2824-2860.	38.1	1,105
89	Electron Tomography of Au-Catalyzed Semiconductor Nanowires. Journal of Physical Chemistry C, 2013, 117, 1059-1063.	3.1	12
90	Spatially Resolved Correlation of Active and Total Doping Concentrations in VLS Grown Nanowires. Nano Letters, 2013, 13, 2598-2604.	9.1	40

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91	Quantitatively Enhanced Reliability and Uniformity of High- $\hat{\rho}$ Dielectrics on Graphene Enabled by Self-Assembled Seeding Layers. <i>Nano Letters</i> , 2013, 13, 1162-1167.	9.1	67
92	Nanowire Heterostructures. <i>Annual Review of Materials Research</i> , 2013, 43, 451-479.	9.3	140
93	High-Field Transport and Thermal Reliability of Sorted Carbon Nanotube Network Devices. <i>ACS Nano</i> , 2013, 7, 482-490.	14.6	35
94	Electronic Origin for the Phase Transition from Amorphous $\text{Li}_{15}\text{Si}_4$ to Crystalline $\text{Li}_{15}\text{Si}_4$. <i>ACS Nano</i> , 2013, 7, 6303-6309.	14.6	135
95	Low-Frequency Electronic Noise in Single-Layer MoS_2 Transistors. <i>Nano Letters</i> , 2013, 13, 4351-4355.	9.1	221
96	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
97	Near-field microwave microscopy of high- $\hat{\rho}$ oxides grown on graphene with an organic seeding layer. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	12
98	Publisher's Note: Nanoscale Fourier-Transform Magnetic Resonance Imaging [<i>Phys. Rev. X</i> 3, 031016 (2013)]. <i>Physical Review X</i> , 2013, 3, .	8.9	3
99	Nanoscale Fourier-Transform Magnetic Resonance Imaging. <i>Physical Review X</i> , 2013, 3, .	8.9	27
100	Extrinsic and intrinsic photoresponse in monodisperse carbon nanotube thin film transistors. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	8
101	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
102	Raman concentrators in Ge nanowires with dielectric coatings. <i>Optics Express</i> , 2012, 20, 5127.	3.4	4
103	Nanomechanical detection of nuclear magnetic resonance using a silicon nanowire oscillator. <i>Physical Review B</i> , 2012, 85, .	3.2	76
104	A Method for Directly Correlating Site-Specific Cross-Sectional and Plan-View Transmission Electron Microscopy of Individual Nanostructures. <i>Microscopy and Microanalysis</i> , 2012, 18, 1410-1418.	0.4	10
105	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
106	Correlation and Morphology of Dopant Decomposition in Mn and Co Codoped Ge Epitaxial Films. <i>Journal of Physical Chemistry C</i> , 2012, 116, 276-280.	3.1	7
107	Direct Measurements of Lateral Variations of Schottky Barrier Height Across End-On-Metal Contacts to Vertical Si Nanowires by Ballistic Electron Emission Microscopy. <i>Nano Letters</i> , 2012, 12, 694-698.	9.1	6
108	Quantitative Statistical Analysis of Dielectric Breakdown in Zirconia-Based Self-Assembled Nanodielectrics. <i>ACS Nano</i> , 2012, 6, 4452-4460.	14.6	9

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109	Atom Probe Tomography of <i>a</i> -Axis GaN Nanowires: Analysis of Nonstoichiometric Evaporation Behavior. ACS Nano, 2012, 6, 3898-3906.	14.6	72
110	Catalyst Incorporation at Defects during Nanowire Growth. Nano Letters, 2012, 12, 167-171.	9.1	58
111	Fundamental Performance Limits of Carbon Nanotube Thin-Film Transistors Achieved Using Hybrid Molecular Dielectrics. ACS Nano, 2012, 6, 7480-7488.	14.6	142
112	Atomic Structural Analysis of Nanowire Defects and Polytypes Enabled Through Cross-Sectional Lattice Imaging. Small, 2012, 8, 1717-1724.	10.0	13
113	Diameter and Polarization-Dependent Raman Scattering Intensities of Semiconductor Nanowires. Nano Letters, 2012, 12, 2266-2271.	9.1	42
114	Stoichiometry Engineering of Monoclinic to Rutile Phase Transition in Suspended Single Crystalline Vanadium Dioxide Nanobeams. Nano Letters, 2011, 11, 1443-1447.	9.1	157
115	Atypical Self-Activation of Ga Dopant for Ge Nanowire Devices. Nano Letters, 2011, 11, 3108-3112.	9.1	16
116	Obtaining Uniform Dopant Distributions in VLS-Grown Si Nanowires. Nano Letters, 2011, 11, 183-187.	9.1	81
117	Silicon Nanowire Polytypes: Identification by Raman Spectroscopy, Generation Mechanism, and Misfit Strain in Homostructures. ACS Nano, 2011, 5, 8958-8966.	14.6	66
118	Spatially Resolved Plasmonically Enhanced Photocurrent from Au Nanoparticles on a Si Nanowire. Nano Letters, 2011, 11, 2731-2734.	9.1	63
119	Direct Measurement of Individual Deep Traps in Single Silicon Nanowires. Nano Letters, 2011, 11, 2499-2502.	9.1	39
120	Direct measurement of nanowire Schottky junction depletion region. Applied Physics Letters, 2011, 99, 223511.	3.3	23
121	Direct Measurement of Inhomogeneous Longitudinal Dopant Distribution in SiNWs Using Nano-Probe Scanning Auger Microscopy.. Materials Research Society Symposia Proceedings, 2011, 1349, 142101.	0.1	0
122	Texture analysis of manganese-germanide/germanium nanowire heterostructures by high resolution electron microscopy and diffraction. Journal of Materials Research, 2011, 26, 2299-2304.	2.6	3
123	Mitigation of surface doping in VLS-grown Si nanowires. , 2010, , .		1
124	Broadband Plasmonic Microlenses Based on Patches of Nanoholes. Nano Letters, 2010, 10, 4111-4116.	9.1	120
125	Direct Detection of Hole Gas in Ge [~] Si Core [~] Shell Nanowires by Enhanced Raman Scattering. Nano Letters, 2010, 10, 4483-4487.	9.1	34
126	Weibull Analysis of Dielectric Breakdown in a Self-Assembled Nanodielectric for Organic Transistors. Journal of Physical Chemistry Letters, 2010, 1, 3292-3297.	4.6	38

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127	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
128	Tomographic study of atomic-scale redistribution of platinum during the silicidation of Ni _{0.95} Pt _{0.05} /Si(100) thin films. <i>Applied Physics Letters</i> , 2009, 94, 113103.	3.3	17
129	Nonuniform doping distribution along silicon nanowires measured by Kelvin probe force microscopy and scanning photocurrent microscopy. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	84
130	Controlling the nonlinearity of silicon nanowire resonators using active feedback. <i>Applied Physics Letters</i> , 2009, 95, 123116.	3.3	32
131	Correlating dopant distributions and electrical properties of boron-doped silicon nanowires. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	44
132	Atom-Probe Tomography of Semiconductor Materials and Device Structures. <i>MRS Bulletin</i> , 2009, 34, 738-743.	3.5	42
133	Nonuniform Nanowire Doping Profiles Revealed by Quantitative Scanning Photocurrent Microscopy. <i>Advanced Materials</i> , 2009, 21, 3067-3072.	21.0	113
134	A synergistic assembly of nanoscale lamellar photoconductor hybrids. <i>Nature Materials</i> , 2009, 8, 68-75.	27.5	174
135	Direct measurement of dopant distribution in an individual vapour-liquid-solid nanowire. <i>Nature Nanotechnology</i> , 2009, 4, 315-319.	31.5	379
136	Relative Influence of Surface States and Bulk Impurities on the Electrical Properties of Ge Nanowires. <i>Nano Letters</i> , 2009, 9, 3268-3274.	9.1	115
137	Direct Correlation of Structural Domain Formation with the Metal Insulator Transition in a VO ₂ Nanobeam. <i>Nano Letters</i> , 2009, 9, 4527-4532.	9.1	195
138	Vanadium oxide nanowire phase and orientation analyzed by Raman spectroscopy. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	64
139	Alternative catalysts for VSS growth of silicon and germanium nanowires. <i>Journal of Materials Chemistry</i> , 2009, 19, 849.	6.7	136
140	Ordered Stacking Fault Arrays in Silicon Nanowires. <i>Nano Letters</i> , 2009, 9, 2774-2779.	9.1	113
141	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
142	Three-Dimensional Atom-Probe Tomographic Studies of Nickel Monosilicide/Silicon Interfaces on a Subnanometer Scale. <i>ECS Transactions</i> , 2009, 19, 303-314.	0.5	7
143	Tomographic analysis of dilute impurities in semiconductor nanostructures. <i>Journal of Solid State Chemistry</i> , 2008, 181, 1642-1649.	2.9	62
144	High-resolution detection of Au catalyst atoms in Si nanowires. <i>Nature Nanotechnology</i> , 2008, 3, 168-173.	31.5	575

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145	Syntaxial Growth of Ge/Mn-Germanide Nanowire Heterostructures. Nano Letters, 2008, 8, 2669-2673.	9.1	32
146	Displacement detection of silicon nanowires by polarization-enhanced fiber-optic interferometry. Applied Physics Letters, 2008, 93, .	3.3	76
147	Three-dimensional atomic-scale mapping of Pd in Ni _{1-x} Pd _x Si-Si(100) thin films. Applied Physics Letters, 2007, 91, 113106.	3.3	17
148	Quantitative characterization of carrier transport in nanowire photodetectors. , 2007, , .		0
149	Vapor-Solid-Solid Synthesis of Ge Nanowires from Vapor-Phase-Deposited Manganese Germanide Seeds. Journal of the American Chemical Society, 2007, 129, 10670-10671.	13.7	44
150	Space-charge-limited current in nanowires depleted by oxygen adsorption. Applied Physics Letters, 2006, 89, 143102.	3.3	90
151	Three-Dimensional Nanoscale Composition Mapping of Semiconductor Nanowires. Nano Letters, 2006, 6, 181-185.	9.1	214
152	Low-temperature photoluminescence imaging and time-resolved spectroscopy of single CdS nanowires. Applied Physics Letters, 2006, 89, 053119.	3.3	38
153	Quantitative Measurement of the Electron and Hole Mobility-Lifetime Products in Semiconductor Nanowires. Nano Letters, 2006, 6, 948-952.	9.1	95
154	Resonant Raman scattering from CdS nanowires. Applied Physics Letters, 2006, 88, 043118.	3.3	39
155	Ferromagnetic Self-Assembled Quantum Dots on Semiconductor Nanowires. Nano Letters, 2006, 6, 50-54.	9.1	59
156	Composition analysis of single semiconductor nanowires using pulsed-laser atom probe tomography. Applied Physics A: Materials Science and Processing, 2006, 85, 271-275.	2.3	47
157	Temperature dependent photoluminescence of single CdS nanowires. Applied Physics Letters, 2006, 89, 123123.	3.3	56
158	Local photocurrent mapping as a probe of contact effects and charge carrier transport in semiconductor nanowire devices. Journal of Vacuum Science & Technology B, 2006, 24, 2172.	1.3	36
159	Dendritic Nanowire Growth Mediated by a Self-Assembled Catalyst. Advanced Materials, 2005, 17, 598-602.	21.0	94
160	Near-field scanning photocurrent microscopy of a nanowire photodetector. Applied Physics Letters, 2005, 87, 043111.	3.3	196
161	Growth and transport properties of complementary germanium nanowire field-effect transistors. Applied Physics Letters, 2004, 84, 4176-4178.	3.3	351
162	Semiconductor nanowire heterostructures. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 1247-1260.	3.4	220

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