

Lincoln J Lauhon

List of Publications by Year in Descending Order

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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.

178
papers

21,335
citations

59
h-index

145
g-index

189
ext. papers

23,078
ext. citations

10
avg, IF

6.81
L-index

#	Paper	IF	Citations
178	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	2
177	A New Approach to Designing High-Sensitivity Low-Dimensional Photodetectors. <i>Nano Letters</i> , 2021 , 21, 9838-9844	11.5	1
176	Exaggerated sensitivity in photodetectors with internal gain. <i>Nature Photonics</i> , 2021 , 15, 714-714	33.9	1
175	Selective Area Regrowth Produces Nonuniform Mg Doping Profiles in Nonplanar GaN p \bar{n} Junctions. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 704-710	4	4
174	Atomic-level charge transport mechanism in gate-tunable anti-ambipolar van der Waals heterojunctions. <i>Applied Physics Letters</i> , 2021 , 118, 083103	3.4	2
173	High resolution strain mapping of a single axially heterostructured nanowire using scanning X-ray diffraction. <i>Nano Research</i> , 2020 , 13, 2460-2468	10	5
172	Molecular-Scale Characterization of Photoinduced Charge Separation in Mixed-Dimensional InSe-Organic van der Waals Heterostructures. <i>ACS Nano</i> , 2020 , 14, 3509-3518	16.7	12
171	Emergent Optoelectronic Properties of Mixed-Dimensional Heterojunctions. <i>Accounts of Chemical Research</i> , 2020 , 53, 763-772	24.3	30
170	Remote Doping of Scalable Nanowire Branches. <i>Nano Letters</i> , 2020 , 20, 3577-3584	11.5	5
169	transport measurements reveal source of mobility enhancement of MoS and MoTe during dielectric deposition. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 1273-1279	4	3
168	Light and complex 3D MoS/graphene heterostructures as efficient catalysts for the hydrogen evolution reaction. <i>Nanoscale</i> , 2020 , 12, 2715-2725	7.7	25
167	Charge Separation in Epitaxial SnS/MoS Vertical Heterojunctions Grown by Low-Temperature Pulsed MOCVD. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 40543-40550	9.5	11
166	Nonlinear Mode Coupling and One-to-One Internal Resonances in a Monolayer WS Nanoresonator. <i>Nano Letters</i> , 2019 , 19, 4052-4059	11.5	13
165	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	11.5	9
164	Two-dimensional charge carrier distribution in MoS ₂ monolayer and multilayers. <i>Applied Physics Letters</i> , 2019 , 114, 101602	3.4	14
163	Broad-band high-gain room temperature photodetectors using semiconductor-metal nanofloret hybrids with wide plasmonic response. <i>Nanoscale</i> , 2019 , 11, 6368-6376	7.7	5
162	Strain-Energy Release in Bent Semiconductor Nanowires Occurring by Polygonization or Nanocrack Formation. <i>ACS Nano</i> , 2019 , 13, 3730-3738	16.7	4

161	Strain Mapping of CdTe Grains in Photovoltaic Devices. <i>IEEE Journal of Photovoltaics</i> , 2019 , 9, 1790-1799	3.7	8
160	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	11
159	An Experimental Setup for Combined In-Vacuo Raman Spectroscopy and Cavity-Interferometry Measurements on TMDC Nano-resonators. <i>Experimental Mechanics</i> , 2019 , 59, 349-359	2.6	3
158	High-Resolution Nanoscale Solid-State Nuclear Magnetic Resonance Spectroscopy. <i>Physical Review X</i> , 2018 , 8,	9.1	16
157	Charge Separation at Mixed-Dimensional Single and Multilayer MoS/Silicon Nanowire Heterojunctions. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 16760-16767	9.5	23
156	Self-Aligned van der Waals Heterojunction Diodes and Transistors. <i>Nano Letters</i> , 2018 , 18, 1421-1427	11.5	36
155	Correlated Chemical and Electrically Active Dopant Analysis in Catalyst-Free Si-Doped InAs Nanowires. <i>ACS Nano</i> , 2018 , 12, 1603-1610	16.7	10
154	Measuring Three-Dimensional Strain and Structural Defects in a Single InGaAs Nanowire Using Coherent X-ray Multiangle Bragg Projection Ptychography. <i>Nano Letters</i> , 2018 , 18, 811-819	11.5	59
153	Template-Assisted Scalable Nanowire Networks. <i>Nano Letters</i> , 2018 , 18, 2666-2671	11.5	61
152	Criteria and considerations for preparing atom-probe tomography specimens of nanomaterials utilizing an encapsulation methodology. <i>Ultramicroscopy</i> , 2018 , 184, 225-233	3.1	12
151	Connecting Composition-Driven Faceting with Facet-Driven Composition Modulation in GaAs-AlGaAs Core-Shell Nanowires. <i>Nano Letters</i> , 2018 , 18, 5179-5185	11.5	11
150	Doping of Self-Catalyzed Nanowires under the Influence of Droplets. <i>Nano Letters</i> , 2018 , 18, 81-87	11.5	19
149	Suppressing Ambient Degradation of Exfoliated InSe Nanosheet Devices via Seeded Atomic Layer Deposition Encapsulation. <i>Nano Letters</i> , 2018 , 18, 7876-7882	11.5	44
148	Perspectives on frontiers in electronic and photonic materials. <i>MRS Bulletin</i> , 2018 , 43, 901-908	3.2	
147	Tuning Lasing Emission toward Long Wavelengths in GaAs-(In,Al)GaAs Core-Multishell Nanowires. <i>Nano Letters</i> , 2018 , 18, 6292-6300	11.5	33
146	Atom probe tomography of nanoscale architectures in functional materials for electronic and photonic applications. <i>Current Opinion in Solid State and Materials Science</i> , 2018 , 22, 171-187	12	4
145	Atomic Layer Deposition of Molybdenum Oxides with Tunable Stoichiometry Enables Controllable Doping of MoS ₂ . <i>Chemistry of Materials</i> , 2018 , 30, 3628-3632	9.6	20
144	He-Ion Microscopy as a High-Resolution Probe for Complex Quantum Heterostructures in Core-Shell Nanowires. <i>Nano Letters</i> , 2018 , 18, 3911-3919	11.5	11

143	Evolutionary Design and Prototyping of Single Crystalline Titanium Nitride Lattice Optics. <i>ACS Photonics</i> , 2017 , 4, 606-612	6.3	28
142	Low-Temperature Atomic Layer Deposition of MoS ₂ Films. <i>Angewandte Chemie</i> , 2017 , 129, 5073-5077	3.6	12
141	Identifying Excitation and Emission Rate Contributions to Plasmon-Enhanced Photoluminescence from Monolayer MoS ₂ Using a Tapered Gold Nanoantenna. <i>ACS Photonics</i> , 2017 , 4, 1602-1606	6.3	11
140	Low-Temperature Atomic Layer Deposition of MoS Films. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 4991-4995	16.4	89
139	Enhanced radiative emission from monolayer MoS ₂ films using a single plasmonic dimer nanoantenna. <i>Applied Physics Letters</i> , 2017 , 111, 031101	3.4	18
138	Quantum Transport and Sub-Band Structure of Modulation-Doped GaAs/AlAs Core-Superlattice Nanowires. <i>Nano Letters</i> , 2017 , 17, 4886-4893	11.5	16
137	Truly Electroforming-Free and Low-Energy Memristors with Preconditioned Conductive Tunneling Paths. <i>Advanced Functional Materials</i> , 2017 , 27, 1702010	15.6	56
136	1-D Metal Nanobead Arrays within Encapsulated Nanowires via a Red-Ox-Induced Dewetting: Mechanism Study by Atom-Probe Tomography. <i>Nano Letters</i> , 2017 , 17, 7478-7486	11.5	4
135	Nanowire Kinking Modulates Doping Profiles by Reshaping the Liquid-Solid Growth Interface. <i>Nano Letters</i> , 2017 , 17, 4518-4525	11.5	13
134	Control of interlayer physics in 2H transition metal dichalcogenides. <i>Journal of Applied Physics</i> , 2017 , 122, 224302	2.5	17
133	Epitaxial Heterostructure Nanowires 2017 , 3-29		
132	Metal-Free Carbon-Based Nanomaterial Coatings Protect Silicon Photoanodes in Solar Water-Splitting. <i>Nano Letters</i> , 2016 , 16, 7370-7375	11.5	25
131	Plasmonic Lattice Lenses for Multiwavelength Achromatic Focusing. <i>ACS Nano</i> , 2016 , 10, 10275-10282	16.7	63
130	Hybrid, Gate-Tunable, van der Waals p-n Heterojunctions from Pentacene and MoS ₂ . <i>Nano Letters</i> , 2016 , 16, 497-503	11.5	240
129	Impact of Dopant Compensation on Graded p-n Junctions in Si Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 128-34	9.5	8
128	Suppression of alloy fluctuations in GaAs-AlGaAs core-shell nanowires. <i>Applied Physics Letters</i> , 2016 , 109, 093105	3.4	17
127	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, 4490-500	11.5	32
126	Atom Probe Tomography Analysis of Ag Doping in 2D Layered Material (PbSe)(BiSe). <i>Nano Letters</i> , 2016 , 16, 6064-6069	11.5	8

125	Spin transport and Hanle effect in silicon nanowires using graphene tunnel barriers. <i>Nature Communications</i> , 2015 , 6, 7541	17.4	20
124	Alloy Fluctuations Act as Quantum Dot-like Emitters in GaAs-AlGaAs Core-Shell Nanowires. <i>ACS Nano</i> , 2015 , 9, 8335-43	16.7	60
123	Demonstration of Confined Electron Gas and Steep-Slope Behavior in Delta-Doped GaAs-AlGaAs Core-Shell Nanowire Transistors. <i>Nano Letters</i> , 2015 , 15, 3295-302	11.5	53
122	Investigation of band-offsets at monolayer-multilayer MoS ₂ junctions by scanning photocurrent microscopy. <i>Nano Letters</i> , 2015 , 15, 2278-84	11.5	115
121	Gate-tunable memristive phenomena mediated by grain boundaries in single-layer MoS ₂ . <i>Nature Nanotechnology</i> , 2015 , 10, 403-6	28.7	426
120	Correlated high-resolution x-ray diffraction, photoluminescence, and atom probe tomography analysis of continuous and discontinuous In _x Ga _{1-x} N quantum wells. <i>Applied Physics Letters</i> , 2015 , 107, 022107	3.4	10
119	Optical Control of Mechanical Mode-Coupling within a MoS ₂ Resonator in the Strong-Coupling Regime. <i>Nano Letters</i> , 2015 , 15, 6727-31	11.5	37
118	Atom Probe Tomography of Nanowires. <i>Semiconductors and Semimetals</i> , 2015 , 249-278	0.6	3
117	Large-area, low-voltage, antiambipolar heterojunctions from solution-processed semiconductors. <i>Nano Letters</i> , 2015 , 15, 416-21	11.5	68
116	Extraordinary dynamic mechanical response of vanadium dioxide nanowires around the insulator to metal phase transition. <i>Nano Letters</i> , 2014 , 14, 1898-902	11.5	36
115	Emerging device applications for semiconducting two-dimensional transition metal dichalcogenides. <i>ACS Nano</i> , 2014 , 8, 1102-20	16.7	1909
114	Subwavelength lattice optics by evolutionary design. <i>Nano Letters</i> , 2014 , 14, 7195-200	11.5	49
113	Effective passivation of exfoliated black phosphorus transistors against ambient degradation. <i>Nano Letters</i> , 2014 , 14, 6964-70	11.5	1117
112	Lift-out procedures for atom probe tomography targeting nanoscale features in core-shell nanowire heterostructures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2014 , 11, 656-661		16
111	Influence of stoichiometry on the optical and electrical properties of chemical vapor deposition derived MoS ₂ . <i>ACS Nano</i> , 2014 , 8, 10551-8	16.7	209
110	In situ electron microscopy four-point electromechanical characterization of freestanding metallic and semiconducting nanowires. <i>Small</i> , 2014 , 10, 725-33	11	31
109	Energy Frontier Research Center for Solid-State Lighting Science: Exploring New Materials Architectures and Light Emission Phenomena. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 13330-13345	3.8	12
108	Rational Control of Diffraction and Interference from Conformal Phase Gratings: Toward High-Resolution 3D Nanopatterning. <i>Advanced Optical Materials</i> , 2014 , 2, 1213-1220	8.1	26

107	Wafer-scale solution-derived molecular gate dielectrics for low-voltage graphene electronics. <i>Applied Physics Letters</i> , 2014 , 104, 083503	3.4	22
106	On the reliable analysis of indium mole fraction within In _x Ga _{1-x} N quantum wells using atom probe tomography. <i>Applied Physics Letters</i> , 2014 , 104, 152102	3.4	33
105	Elucidating the Photoresponse of Ultrathin MoS ₂ Field-Effect Transistors by Scanning Photocurrent Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 2508-2513	6.4	169
104	Origin of polytype formation in VLS-grown Ge nanowires through defect generation and nanowire kinking. <i>Nano Letters</i> , 2013 , 13, 3947-52	11.5	36
103	Spatial mapping of efficiency of GaN/InGaN nanowire array solar cells using scanning photocurrent microscopy. <i>Nano Letters</i> , 2013 , 13, 5123-8	11.5	68
102	Barrier height measurement of metal contacts to Si nanowires using internal photoemission of hot carriers. <i>Nano Letters</i> , 2013 , 13, 6183-8	11.5	26
101	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, 6106-12	11.5	232
100	Three-dimensional mapping of quantum wells in a GaN/InGaN core-shell nanowire light-emitting diode array. <i>Nano Letters</i> , 2013 , 13, 4317-25	11.5	89
99	Band-like transport in high mobility unencapsulated single-layer MoS ₂ transistors. <i>Applied Physics Letters</i> , 2013 , 102, 173107	3.4	316
98	Electron-rich driven electrochemical solid-state amorphization in Li-Si alloys. <i>Nano Letters</i> , 2013 , 13, 4511-15	11.5	45
97	Identification of an intrinsic source of doping inhomogeneity in vapor-liquid-solid-grown nanowires. <i>Nano Letters</i> , 2013 , 13, 199-206	11.5	53
96	Carbon nanomaterials for electronics, optoelectronics, photovoltaics, and sensing. <i>Chemical Society Reviews</i> , 2013 , 42, 2824-60	58.5	941
95	Electron Tomography of Au-Catalyzed Semiconductor Nanowires. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 1059-1063	3.8	10
94	Spatially resolved correlation of active and total doping concentrations in VLS grown nanowires. <i>Nano Letters</i> , 2013 , 13, 2598-604	11.5	39
93	Quantitatively enhanced reliability and uniformity of high- κ dielectrics on graphene enabled by self-assembled seeding layers. <i>Nano Letters</i> , 2013 , 13, 1162-7	11.5	57
92	Nanowire Heterostructures. <i>Annual Review of Materials Research</i> , 2013 , 43, 451-479	12.8	115
91	High-field transport and thermal reliability of sorted carbon nanotube network devices. <i>ACS Nano</i> , 2013 , 7, 482-90	16.7	31
90	Electronic origin for the phase transition from amorphous Li(x)Si to crystalline Li ₁₅ Si ₄ . <i>ACS Nano</i> , 2013 , 7, 6303-9	16.7	117

89	Low-frequency electronic noise in single-layer MoS2 transistors. <i>Nano Letters</i> , 2013 , 13, 4351-5	11.5	188
88	Large-area, electronically monodisperse, aligned single-walled carbon nanotube thin films fabricated by evaporation-driven self-assembly. <i>Small</i> , 2013 , 9, 45-51	11	59
87	Near-field microwave microscopy of high- κ oxides grown on graphene with an organic seeding layer. <i>Applied Physics Letters</i> , 2013 , 103, 243105	3.4	11
86	Publisher's Note: Nanoscale Fourier-Transform Magnetic Resonance Imaging [Phys. Rev. X 3, 031016 (2013)]. <i>Physical Review X</i> , 2013 , 3,	9.1	3
85	Nanoscale Fourier-Transform Magnetic Resonance Imaging. <i>Physical Review X</i> , 2013 , 3,	9.1	20
84	Extrinsic and intrinsic photoresponse in monodisperse carbon nanotube thin film transistors. <i>Applied Physics Letters</i> , 2013 , 102, 083104	3.4	6
83	Gate-tunable carbon nanotube-MoS2 heterojunction p-n diode. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 18076-80	11.5	304
82	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, 1410-8	0.5	10
81	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	3.5	26
80	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	3.8	7
79	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, 694-8	11.5	6
78	Quantitative statistical analysis of dielectric breakdown in zirconia-based self-assembled nanodielectrics. <i>ACS Nano</i> , 2012 , 6, 4452-60	16.7	9
77	Atom probe tomography of a-axis GaN nanowires: analysis of nonstoichiometric evaporation behavior. <i>ACS Nano</i> , 2012 , 6, 3898-906	16.7	65
76	Catalyst incorporation at defects during nanowire growth. <i>Nano Letters</i> , 2012 , 12, 167-71	11.5	53
75	Measuring the Electronic Properties of Materials at the Nanoscale 2012 , 1		0
74	Fundamental performance limits of carbon nanotube thin-film transistors achieved using hybrid molecular dielectrics. <i>ACS Nano</i> , 2012 , 6, 7480-8	16.7	129
73	Atomic structural analysis of nanowire defects and polytypes enabled through cross-sectional lattice imaging. <i>Small</i> , 2012 , 8, 1717-24	11	12
72	Diameter and polarization-dependent Raman scattering intensities of semiconductor nanowires. <i>Nano Letters</i> , 2012 , 12, 2266-71	11.5	39

71	Raman concentrators in Ge nanowires with dielectric coatings. <i>Optics Express</i> , 2012 , 20, 5127-32	3.3	3
70	Nanomechanical detection of nuclear magnetic resonance using a silicon nanowire oscillator. <i>Physical Review B</i> , 2012 , 85,	3.3	60
69	Silicon nanowire polytypes: identification by Raman spectroscopy, generation mechanism, and misfit strain in homostructures. <i>ACS Nano</i> , 2011 , 5, 8958-66	16.7	56
68	Spatially resolved plasmonically enhanced photocurrent from Au nanoparticles on a Si nanowire. <i>Nano Letters</i> , 2011 , 11, 2731-4	11.5	59
67	Direct measurement of individual deep traps in single silicon nanowires. <i>Nano Letters</i> , 2011 , 11, 2499-502	11.5	36
66	Stoichiometry engineering of monoclinic to rutile phase transition in suspended single crystalline vanadium dioxide nanobeams. <i>Nano Letters</i> , 2011 , 11, 1443-7	11.5	141
65	Atypical self-activation of Ga dopant for Ge nanowire devices. <i>Nano Letters</i> , 2011 , 11, 3108-12	11.5	14
64	Obtaining uniform dopant distributions in VLS-grown Si nanowires. <i>Nano Letters</i> , 2011 , 11, 183-7	11.5	75
63	Direct measurement of nanowire Schottky junction depletion region. <i>Applied Physics Letters</i> , 2011 , 99, 223511	3.4	23
62	Direct Measurement of Inhomogeneous Longitudinal Dopant Distribution in SiNWs Using Nano-Probe Scanning Auger Microscopy.. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1349, 142101		
61	Texture analysis of manganese-germanide/germanium nanowire heterostructures by high resolution electron microscopy and diffraction. <i>Journal of Materials Research</i> , 2011 , 26, 2299-2304	2.5	3
60	Mitigation of surface doping in VLS-grown Si nanowires 2010 ,		1
59	Broadband plasmonic microlenses based on patches of nanoholes. <i>Nano Letters</i> , 2010 , 10, 4111-6	11.5	100
58	Direct detection of hole gas in Ge-Si core-shell nanowires by enhanced Raman scattering. <i>Nano Letters</i> , 2010 , 10, 4483-7	11.5	33
57	Weibull Analysis of Dielectric Breakdown in a Self-Assembled Nanodielectric for Organic Transistors. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 3292-3297	6.4	30
56	Growth of Ge Nanowires from AuCu Alloy Nanoparticle Catalysts Synthesized from Aqueous Solution. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 3360-3365	6.4	22
55	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	3.4	15
54	Nonuniform doping distribution along silicon nanowires measured by Kelvin probe force microscopy and scanning photocurrent microscopy. <i>Applied Physics Letters</i> , 2009 , 95, 092105	3.4	77

53	Controlling the nonlinearity of silicon nanowire resonators using active feedback. <i>Applied Physics Letters</i> , 2009 , 95, 123116	3.4	31
52	Correlating dopant distributions and electrical properties of boron-doped silicon nanowires. <i>Applied Physics Letters</i> , 2009 , 95, 162101	3.4	41
51	Atom-Probe Tomography of Semiconductor Materials and Device Structures. <i>MRS Bulletin</i> , 2009 , 34, 738-743	3.2	38
50	Nonuniform Nanowire Doping Profiles Revealed by Quantitative Scanning Photocurrent Microscopy. <i>Advanced Materials</i> , 2009 , 21, 3067-3072	24	104
49	A synergistic assembly of nanoscale lamellar photoconductor hybrids. <i>Nature Materials</i> , 2009 , 8, 68-75	27	160
48	Direct measurement of dopant distribution in an individual vapour-liquid-solid nanowire. <i>Nature Nanotechnology</i> , 2009 , 4, 315-9	28.7	358
47	Relative influence of surface states and bulk impurities on the electrical properties of Ge nanowires. <i>Nano Letters</i> , 2009 , 9, 3268-74	11.5	102
46	Direct correlation of structural domain formation with the metal insulator transition in a VO ₂ nanobeam. <i>Nano Letters</i> , 2009 , 9, 4527-32	11.5	166
45	Vanadium oxide nanowire phase and orientation analyzed by Raman spectroscopy. <i>Journal of Applied Physics</i> , 2009 , 105, 034310	2.5	55
44	Alternative catalysts for VSS growth of silicon and germanium nanowires. <i>Journal of Materials Chemistry</i> , 2009 , 19, 849		124
43	Ordered stacking fault arrays in silicon nanowires. <i>Nano Letters</i> , 2009 , 9, 2774-9	11.5	104
42	Scanning photocurrent microscopy analysis of Si nanowire field-effect transistors fabricated by surface etching of the channel. <i>Nano Letters</i> , 2009 , 9, 1903-8	11.5	43
41	Three-Dimensional Atom-Probe Tomographic Studies of Nickel Monosilicide/Silicon Interfaces on a Subnanometer Scale. <i>ECS Transactions</i> , 2009 , 19, 303-314	1	7
40	High-resolution detection of Au catalyst atoms in Si nanowires. <i>Nature Nanotechnology</i> , 2008 , 3, 168-73	28.7	537
39	Syntaxial growth of Ge/Mn-germanide nanowire heterostructures. <i>Nano Letters</i> , 2008 , 8, 2669-73	11.5	30
38	Displacement detection of silicon nanowires by polarization-enhanced fiber-optic interferometry. <i>Applied Physics Letters</i> , 2008 , 93, 193110	3.4	65
37	Tomographic analysis of dilute impurities in semiconductor nanostructures. <i>Journal of Solid State Chemistry</i> , 2008 , 181, 1642-1649	3.3	57
36	Vapor-solid-solid synthesis of Ge nanowires from vapor-phase-deposited manganese germanide seeds. <i>Journal of the American Chemical Society</i> , 2007 , 129, 10670-1	16.4	40

35	Three-dimensional atomic-scale mapping of Pd in Ni _{1-x} Pd _x SiBi(100) thin films. <i>Applied Physics Letters</i> , 2007 , 91, 113106	3-4	15
34	Temperature dependent photoluminescence of single CdS nanowires. <i>Applied Physics Letters</i> , 2006 , 89, 123123	3-4	51
33	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		33
32	Space-charge-limited current in nanowires depleted by oxygen adsorption. <i>Applied Physics Letters</i> , 2006 , 89, 143102	3-4	83
31	Three-dimensional nanoscale composition mapping of semiconductor nanowires. <i>Nano Letters</i> , 2006 , 6, 181-5	11.5	197
30	Low-temperature photoluminescence imaging and time-resolved spectroscopy of single CdS nanowires. <i>Applied Physics Letters</i> , 2006 , 89, 053119	3-4	35
29	Quantitative Measurement of the Electron and Hole Mobility-Lifetime Products in Semiconductor Nanowires. <i>Nano Letters</i> , 2006 , 6, 948-952	11.5	87
28	Resonant Raman scattering from CdS nanowires. <i>Applied Physics Letters</i> , 2006 , 88, 043118	3-4	32
27	Ferromagnetic self-assembled quantum dots on semiconductor nanowires. <i>Nano Letters</i> , 2006 , 6, 50-4	11.5	58
26	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	2.6	42
25	Dendritic Nanowire Growth Mediated by a Self-Assembled Catalyst. <i>Advanced Materials</i> , 2005 , 17, 598-602		91
24	Near-field scanning photocurrent microscopy of a nanowire photodetector. <i>Applied Physics Letters</i> , 2005 , 87, 043111	3-4	174
23	Growth and transport properties of complementary germanium nanowire field-effect transistors. <i>Applied Physics Letters</i> , 2004 , 84, 4176-4178	3-4	325
22	Semiconductor nanowire heterostructures. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2004 , 362, 1247-60	3	199
21	Epitaxial core-shell and core-multishell nanowire heterostructures. <i>Nature</i> , 2002 , 420, 57-61	50.4	1802
20	Growth of nanowire superlattice structures for nanoscale photonics and electronics. <i>Nature</i> , 2002 , 415, 617-20	50.4	2339
19	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	3-4	31
18	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	3-9	43

17	Logic gates and computation from assembled nanowire building blocks. <i>Science</i> , 2001 , 294, 1313-7	33.3	1847
16	Symmetry selection rules for vibrationally inelastic tunneling. <i>Physical Review Letters</i> , 2001 , 86, 2593-6	7.4	172
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