

# Anna Fontcuberta i Morral

## List of Publications by Year in Descending Order

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**Version:** 2024-04-26

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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.

181  
papers

8,791  
citations

51  
h-index

89  
g-index

195  
ext. papers

9,718  
ext. citations

7.9  
avg, IF

6.07  
L-index

#	Paper	IF	Citations
181	Boron quantification, concentration mapping and picosecond excitons dynamics in High-Pressure-High-Temperature diamond by cathodoluminescence. <i>Carbon</i> , <b>2022</b> , 191, 48-54	10.4	2
180	Showcasing the optical properties of monocrystalline zinc phosphide thin films as an earth-abundant photovoltaic absorber.. <i>Materials Advances</i> , <b>2022</b> , 3, 1295-1303	3.3	0
179	Spatial Modulation of Vibrational and Luminescence Properties of Monolayer MoS2 Using a GaAs Nanowire Array. <i>IEEE Journal of Quantum Electronics</i> , <b>2022</b> , 1-1	2	
178	Nanoscale Mapping of Light Emission in Nanospade-Based InGaAs Quantum Wells Integrated on Si(100): Implications for Dual Light-Emitting Devices.. <i>ACS Applied Nano Materials</i> , <b>2022</b> , 5, 5508-5515	5.6	
177	Image shift correction, noise analysis, and model fitting of (cathodo-)luminescence hyperspectral maps. <i>Review of Scientific Instruments</i> , <b>2022</b> , 93, 053702	1.7	
176	Raman tensor of zinc-phosphide (ZnP): from polarization measurements to simulation of Raman spectra. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> ,	3.6	1
175	Rotated domains in selective area epitaxy grown ZnP: formation mechanism and functionality. <i>Nanoscale</i> , <b>2021</b> , 13, 18441-18450	7.7	1
174	The Advantage of Nanowire Configuration in Band Structure Determination (Adv. Funct. Mater. 41/2021). <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2170305	15.6	
173	Raman spectroscopy and lattice dynamics calculations of tetragonally-structured single crystal zinc phosphide (ZnP) nanowires. <i>Nanotechnology</i> , <b>2021</b> , 32, 085704	3.4	6
172	Doping challenges and pathways to industrial scalability of IIIV nanowire arrays. <i>Applied Physics Reviews</i> , <b>2021</b> , 8, 011304	17.3	13
171	van der Waals Epitaxy of Co <sub>10</sub> Zn <sub>10</sub> Mn <sub>x+y</sub> Thin Films: Chemical Composition Engineering and Magnetic Properties. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 9391-9399	3.8	1
170	Simultaneous Selective Area Growth of Wurtzite and Zincblende Self-Catalyzed GaAs Nanowires on Silicon. <i>Nano Letters</i> , <b>2021</b> , 21, 3139-3145	11.5	7
169	The path towards 1 μm monocrystalline Zn <sub>3</sub> P <sub>2</sub> films on InP: substrate preparation, growth conditions and luminescence properties. <i>JPhys Energy</i> , <b>2021</b> , 3, 034011	4.9	3
168	Modeling the Shape Evolution of Selective Area Grown Zn <sub>3</sub> P <sub>2</sub> Nanoislands. <i>Crystal Growth and Design</i> , <b>2021</b> , 21, 4732-4737	3.5	0
167	NiFe nanotubes with optimized spintronic functionalities prepared by atomic layer deposition. <i>Nanoscale</i> , <b>2021</b> , 13, 13451-13462	7.7	1
166	Cubic, hexagonal and tetragonal FeGe phases ( = 1, 1.5, 2): Raman spectroscopy and magnetic properties. <i>CrystEngComm</i> , <b>2021</b> , 23, 6506-6517	3.3	
165	Optical properties and carrier dynamics in Co-doped ZnO nanorods. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 214-223	3.1	1

164	Lamellar carbon-aluminosilicate nanocomposites with macroscopic orientation. <i>Nanoscale</i> , <b>2021</b> , 13, 13650-13657	7.7	
163	Towards defect-free thin films of the earth-abundant absorber zinc phosphide by nanopatterning. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 326-332	5.1	9
162	The Advantage of Nanowire Configuration in Band Structure Determination. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2105426	15.6	2
161	In-situ reflectometry to monitor locally-catalyzed initiation and growth of nanowire assemblies. <i>Nanotechnology</i> , <b>2020</b> , 31, 335703	3.4	0
160	Time-resolved open-circuit conductive atomic force microscopy for direct electromechanical characterisation. <i>Nanotechnology</i> , <b>2020</b> , 31, 404003	3.4	7
159	Facet-driven formation of axial and radial In(Ga)As clusters in GaAs nanowires. <i>Journal of Optics (United Kingdom)</i> , <b>2020</b> , 22, 084002	1.7	3
158	van der Waals Epitaxy of Earth-Abundant Zn <sub>3</sub> P <sub>2</sub> on Graphene for Photovoltaics. <i>Crystal Growth and Design</i> , <b>2020</b> , 20, 3816-3825	3.5	16
157	Remote Doping of Scalable Nanowire Branches. <i>Nano Letters</i> , <b>2020</b> , 20, 3577-3584	11.5	5
156	Multiple morphologies and functionality of nanowires made from earth-abundant zinc phosphide. <i>Nanoscale Horizons</i> , <b>2020</b> , 5, 274-282	10.8	13
155	GaAs nanoscale membranes: prospects for seamless integration of III-Vs on silicon. <i>Nanoscale</i> , <b>2020</b> , 12, 815-824	7.7	9
154	Quantitative Nanoscale Absorption Mapping: A Novel Technique To Probe Optical Absorption of Two-Dimensional Materials. <i>Nano Letters</i> , <b>2020</b> , 20, 567-576	11.5	10
153	Rational strain engineering in delafossite oxides for highly efficient hydrogen evolution catalysis in acidic media. <i>Nature Catalysis</i> , <b>2020</b> , 3, 55-63	36.5	70
152	Heterotwin ZnP superlattice nanowires: the role of indium insertion in the superlattice formation mechanism and their optical properties. <i>Nanoscale</i> , <b>2020</b> , 12, 22534-22540	7.7	3
151	3D Ordering at the Liquid-Solid Polar Interface of Nanowires. <i>Advanced Materials</i> , <b>2020</b> , 32, e2001030	24	5
150	Plasma-Enhanced Atomic Layer Deposition of Nickel Nanotubes with Low Resistivity and Coherent Magnetization Dynamics for 3D Spintronics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 40443-40452	8.5	4
149	Measuring the Optical Absorption of Single Nanowires. <i>Physical Review Applied</i> , <b>2020</b> , 14,	4.3	13
148	Semiconductor nanowires: to grow or not to grow?. <i>Materials Today Nano</i> , <b>2020</b> , 9, 100058	9.7	37
147	Vapor Phase Growth of Semiconductor Nanowires: Key Developments and Open Questions. <i>Chemical Reviews</i> , <b>2019</b> , 119, 8958-8971	68.1	103

146	The Role of Polarity in Nonplanar Semiconductor Nanostructures. <i>Nano Letters</i> , <b>2019</b> , 19, 3396-3408	11.5	20
145	III-V Integration on Si(100): Vertical Nanospades. <i>ACS Nano</i> , <b>2019</b> , 13, 5833-5840	16.7	17
144	Thermodynamic re-assessment of the ZnB binary system. <i>Materialia</i> , <b>2019</b> , 6, 100301	3.2	10
143	Nanosails Showcasing Zn <sub>3</sub> As <sub>2</sub> as an Optoelectronic-Grade Earth Abundant Semiconductor. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2019</b> , 13, 1900084	2.5	7
142	Growth of nanowire arrays from micron-feature templates. <i>Nanotechnology</i> , <b>2019</b> , 30, 285302	3.4	1
141	Questioning liquid droplet stability on nanowire tips: from theory to experiment. <i>Nanotechnology</i> , <b>2019</b> , 30, 285604	3.4	9
140	Highly sensitive piezotronic pressure sensors based on undoped GaAs nanowire ensembles. <i>Journal Physics D: Applied Physics</i> , <b>2019</b> , 52, 294002	3	12
139	Does desorption affect the length distributions of nanowires?. <i>Nanotechnology</i> , <b>2019</b> , 30, 475604	3.4	2
138	Increasing N content in GaNAsP nanowires suppresses the impact of polytypism on luminescence. <i>Nanotechnology</i> , <b>2019</b> , 30, 405703	3.4	3
137	Single-Crystalline EGaS Nanotubes via Epitaxial Conversion of GaAs Nanowires. <i>Nano Letters</i> , <b>2019</b> , 19, 8903-8910	11.5	6
136	Segregation scheme of indium in AlGaInAs nanowire shells. <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	11
135	Fundamental aspects to localize self-catalyzed III-V nanowires on silicon. <i>Nature Communications</i> , <b>2019</b> , 10, 869	17.4	33
134	Unveiling Temperature-Dependent Scattering Mechanisms in Semiconductor Nanowires Using Optical-Pump Terahertz-Probe Spectroscopy <b>2019</b> ,		2
133	Extraction of p-n junction properties and series resistance in GaAs nanowire-based solar cells using light concentration. <i>Nanotechnology</i> , <b>2019</b> , 30, 094001	3.4	3
132	Tuning adatom mobility and nanoscale segregation by twin formation and polytypism. <i>Nanotechnology</i> , <b>2019</b> , 30, 054006	3.4	2
131	Observation of end-vortex nucleation in individual ferromagnetic nanotubes. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	18
130	Bistability of Contact Angle and Its Role in Achieving Quantum-Thin Self-Assisted GaAs nanowires. <i>Nano Letters</i> , <b>2018</b> , 18, 49-57	11.5	46
129	Imaging Stray Magnetic Field of Individual Ferromagnetic Nanotubes. <i>Nano Letters</i> , <b>2018</b> , 18, 964-970	11.5	25

128	High Electron Mobility and Insights into Temperature-Dependent Scattering Mechanisms in InAsSb Nanowires. <i>Nano Letters</i> , <b>2018</b> , 18, 3703-3710	11.5	22
127	Anisotropic-Strain-Induced Band Gap Engineering in Nanowire-Based Quantum Dots. <i>Nano Letters</i> , <b>2018</b> , 18, 2393-2401	11.5	9
126	Template-Assisted Scalable Nanowire Networks. <i>Nano Letters</i> , <b>2018</b> , 18, 2666-2671	11.5	61
125	Surface Defect Passivation of Silicon Micropillars. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1800865	4.6	6
124	Growth kinetics and morphological analysis of homoepitaxial GaAs fins by theory and experiment. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	20
123	Optimizing the yield of A-polar GaAs nanowires to achieve defect-free zinc blende structure and enhanced optical functionality. <i>Nanoscale</i> , <b>2018</b> , 10, 17080-17091	7.7	22
122	Dopant-Induced Modifications of Ga InP Nanowire-Based p-n Junctions Monolithically Integrated on Si(111). <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 32588-32596	9.5	14
121	Plasmonic Photodetectors. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2018</b> , 24, 1-13	3.8	47
120	Coherent Two-Mode Dynamics of a Nanowire Force Sensor. <i>Physical Review Applied</i> , <b>2018</b> , 9,	4.3	8
119	Photophysics behind highly luminescent two-dimensional hybrid perovskite (CH <sub>3</sub> (CH <sub>2</sub> ) <sub>2</sub> NH <sub>3</sub> ) <sub>2</sub> (CH <sub>3</sub> NH <sub>3</sub> ) <sub>2</sub> Pb <sub>3</sub> Br <sub>10</sub> thin films. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 6216-6221	7.1	11
118	Revealing Large-Scale Homogeneity and Trace Impurity Sensitivity of GaAs Nanoscale Membranes. <i>Nano Letters</i> , <b>2017</b> , 17, 2979-2984	11.5	11
117	Engineering the Size Distributions of Ordered GaAs Nanowires on Silicon. <i>Nano Letters</i> , <b>2017</b> , 17, 4101-4108	11.5	34
116	Tilting Catalyst-Free InAs Nanowires by 3D-Twinning and Unusual Growth Directions. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 3596-3605	3.5	4
115	Towards higher electron mobility in modulation doped GaAs/AlGaAs core shell nanowires. <i>Nanoscale</i> , <b>2017</b> , 9, 7839-7846	7.7	10
114	Tuning growth direction of catalyst-free InAs(Sb) nanowires with indium droplets. <i>Nanotechnology</i> , <b>2017</b> , 28, 054001	3.4	20
113	Plasmonic Waveguide-Integrated Nanowire Laser. <i>Nano Letters</i> , <b>2017</b> , 17, 747-754	11.5	64
112	Conductive-probe atomic force microscopy as a characterization tool for nanowire-based solar cells. <i>Nano Energy</i> , <b>2017</b> , 41, 566-572	17.1	25
111	Visual Understanding of Light Absorption and Waveguiding in Standing Nanowires with 3D Fluorescence Confocal Microscopy. <i>ACS Photonics</i> , <b>2017</b> , 4, 2235-2241	6.3	23

110	Imaging magnetic vortex configurations in ferromagnetic nanotubes. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	20
109	Vectorial scanning force microscopy using a nanowire sensor. <i>Nature Nanotechnology</i> , <b>2017</b> , 12, 150-155	28.7	64
108	Dynamic cantilever magnetometry of individual CoFeB nanotubes. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	30
107	Molecular beam epitaxy of InAs nanowires in SiO nanotube templates: challenges and prospects for integration of III-Vs on Si. <i>Nanotechnology</i> , <b>2016</b> , 27, 455601	3.4	7
106	Strain-Induced Band Gap Engineering in Selectively Grown GaN-(Al,Ga)N Core-Shell Nanowire Heterostructures. <i>Nano Letters</i> , <b>2016</b> , 16, 7098-7106	11.5	31
105	Nanowire-Aperture Probe: Local Enhanced Fluorescence Detection for the Investigation of Live Cells at the Nanoscale. <i>ACS Photonics</i> , <b>2016</b> , 3, 1208-1216	6.3	17
104	Materials science: How crystals get an edge. <i>Nature</i> , <b>2016</b> , 531, 308-9	50.4	6
103	Tuning the response of non-allowed Raman modes in GaAs nanowires. <i>Journal Physics D: Applied Physics</i> , <b>2016</b> , 49, 095103	3	6
102	Increased Photoconductivity Lifetime in GaAs Nanowires by Controlled n-Type and p-Type Doping. <i>ACS Nano</i> , <b>2016</b> , 10, 4219-27	16.7	51
101	From Twinning to Pure Zinblende Catalyst-Free InAs(Sb) Nanowires. <i>Nano Letters</i> , <b>2016</b> , 16, 637-43	11.5	49
100	Morphology and composition of oxidized InAs nanowires studied by combined Raman spectroscopy and transmission electron microscopy. <i>Nanotechnology</i> , <b>2016</b> , 27, 305704	3.4	16
99	Magnetization reversal in individual Py and CoFeB nanotubes locally probed via anisotropic magnetoresistance and anomalous Nernst effect. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 132408	3.4	12
98	Quantum Dots in Nanowires. <i>Semiconductors and Semimetals</i> , <b>2016</b> , 159-184	0.6	2
97	Synthesis, Morphological, and Electro-optical Characterizations of Metal/Semiconductor Nanowire Heterostructures. <i>Nano Letters</i> , <b>2016</b> , 16, 3507-13	11.5	11
96	Impact of the Ga Droplet Wetting, Morphology, and Pinholes on the Orientation of GaAs Nanowires. <i>Crystal Growth and Design</i> , <b>2016</b> , 16, 5781-5786	3.5	29
95	Tailoring the diameter and density of self-catalyzed GaAs nanowires on silicon. <i>Nanotechnology</i> , <b>2015</b> , 26, 105603	3.4	53
94	Efficient Multiterminal Spectrum Splitting via a Nanowire Array Solar Cell. <i>ACS Photonics</i> , <b>2015</b> , 2, 1284-1288	12.88	21
93	Hybrid Semiconductor Nanowire-Metallic Yagi-Uda Antennas. <i>Nano Letters</i> , <b>2015</b> , 15, 4889-95	11.5	32

92	High Yield of GaAs Nanowire Arrays on Si Mediated by the Pinning and Contact Angle of Ga. <i>Nano Letters</i> , <b>2015</b> , 15, 2869-74	11.5	30
91	Bottom-up engineering of InAs at the nanoscale: From V-shaped nanomembranes to nanowires. <i>Journal of Crystal Growth</i> , <b>2015</b> , 420, 47-56	1.6	4
90	Cracking the Si Shell Growth in Hexagonal GaP-Si Core-Shell Nanowires. <i>Nano Letters</i> , <b>2015</b> , 15, 2974-9	11.5	20
89	Large-Area Epitaxial Monolayer MoS <sub>2</sub> . <i>ACS Nano</i> , <b>2015</b> , 9, 4611-20	16.7	583
88	Quantum dots in the GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As core-shell nanowires: Statistical occurrence as a function of the shell thickness. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 033106	3.4	13
87	Towards defect-free 1-D GaAs/AlGaAs heterostructures based on GaAs nanomembranes. <i>Nanoscale</i> , <b>2015</b> , 7, 19453-60	7.7	28
86	Modulation of fluorescence signals from biomolecules along nanowires due to interaction of light with oriented nanostructures. <i>Nano Letters</i> , <b>2015</b> , 15, 176-81	11.5	16
85	Field-effect passivation on silicon nanowire solar cells. <i>Nano Research</i> , <b>2015</b> , 8, 673-681	10	61
84	Magnetization reversal of an individual exchange-biased permalloy nanotube. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	20
83	Polarization response of nanowires à la carte. <i>Scientific Reports</i> , <b>2015</b> , 5, 7651	4.9	11
82	Polymer Brush Guided Formation of Conformal, Plasmonic Nanoparticle-Based Electrodes for Microwire Solar Cells. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 3958-3965	15.6	9
81	Wetting of Ga on SiO <sub>x</sub> and Its Impact on GaAs Nanowire Growth. <i>Crystal Growth and Design</i> , <b>2015</b> , 15, 3105-3109	3.5	51
80	Modulation doping of GaAs/AlGaAs core-shell nanowires with effective defect passivation and high electron mobility. <i>Nano Letters</i> , <b>2015</b> , 15, 1336-42	11.5	69
79	Light generation and harvesting in a van der Waals heterostructure. <i>ACS Nano</i> , <b>2014</b> , 8, 3042-8	16.7	337
78	Nanoskiving core-shell nanowires: a new fabrication method for nano-optics. <i>Nano Letters</i> , <b>2014</b> , 14, 524-31	11.5	22
77	Functional carbon nanosheets prepared from hexayne amphiphile monolayers at room temperature. <i>Nature Chemistry</i> , <b>2014</b> , 6, 468-76	17.6	85
76	Photonic-plasmonic coupling of GaAs single nanowires to optical nanoantennas. <i>Nano Letters</i> , <b>2014</b> , 14, 2271-8	11.5	68
75	III-V nanowire arrays: growth and light interaction. <i>Nanotechnology</i> , <b>2014</b> , 25, 014015	3.4	79

74	Semiconductor Nanowires for Next Generation Solar Cells <b>2014</b> ,		1
73	Anisotropic magnetoresistance of individual CoFeB and Ni nanotubes with values of up to 1.4% at room temperature. <i>APL Materials</i> , <b>2014</b> , 2, 076112	5.7	22
72	Plastic and elastic strain fields in GaAs/Si core-shell nanowires. <i>Nano Letters</i> , <b>2014</b> , 14, 1859-64	11.5	28
71	Ga-assisted growth of GaAs nanowires on silicon, comparison of surface SiO <sub>x</sub> of different nature. <i>Journal of Crystal Growth</i> , <b>2014</b> , 404, 246-255	1.6	38
70	Gold-free ternary III-V antimonide nanowire arrays on silicon: twin-free down to the first bilayer. <i>Nano Letters</i> , <b>2014</b> , 14, 326-32	11.5	80
69	Quantum dot opto-mechanics in a fully self-assembled nanowire. <i>Nano Letters</i> , <b>2014</b> , 14, 4454-60	11.5	76
68	Three-dimensional nanoscale study of Al segregation and quantum dot formation in GaAs/AlGaAs core-shell nanowires. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 243106	3.4	44
67	Characterization and analysis of InAs/pBi heterojunction nanowire-based solar cell. <i>Journal Physics D: Applied Physics</i> , <b>2014</b> , 47, 394017	3	24
66	Tuning the g-factor of neutral and charged excitons confined to self-assembled (Al,Ga)As shell quantum dots. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 223111	3.4	8
65	Exciton footprint of self-assembled AlGaAs quantum dots in core-shell nanowires. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	20
64	Probing inhomogeneous composition in core/shell nanowires by Raman spectroscopy. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 184303	2.5	3
63	Hybrid axial and radial Si-GaAs heterostructures in nanowires. <i>Nanoscale</i> , <b>2013</b> , 5, 9633-9	7.7	15
62	Reversal mechanism of an individual Ni nanotube simultaneously studied by torque and SQUID magnetometry. <i>Physical Review Letters</i> , <b>2013</b> , 111, 067202	7.4	52
61	Bandgap engineering in a nanowire: self-assembled 0, 1 and 2D quantum structures. <i>Materials Today</i> , <b>2013</b> , 16, 213-219	21.8	24
60	Advances in the theory of III/V nanowire growth dynamics. <i>Journal Physics D: Applied Physics</i> , <b>2013</b> , 46, 313001	3	102
59	Three-dimensional magneto-photoluminescence as a probe of the electronic properties of crystal-phase quantum disks in GaAs nanowires. <i>Nano Letters</i> , <b>2013</b> , 13, 5303-10	11.5	26
58	A review of MBE grown 0D, 1D and 2D quantum structures in a nanowire. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 4300	7.1	54
57	Enhancement of second harmonic signal in nanofabricated cones. <i>Nano Letters</i> , <b>2013</b> , 13, 6048-54	11.5	31



56	Self-assembled quantum dots in a nanowire system for quantum photonics. <i>Nature Materials</i> , <b>2013</b> , 12, 439-44	27	278
55	Single-nanowire solar cells beyond the Shockley-Queisser limit. <i>Nature Photonics</i> , <b>2013</b> , 7, 306-310	33.9	607
54	Raman spectroscopy of self-catalyzed GaAs(1-x)Sb(x) nanowires grown on silicon. <i>Nanotechnology</i> , <b>2013</b> , 24, 405707	3.4	34
53	Doping incorporation paths in catalyst-free Be-doped GaAs nanowires. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 013117	3.4	55
52	Electrical transport in C-doped GaAs nanowires: surface effects. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2013</b> , 7, 890-893	2.5	13
51	Hartree simulations of coupled quantum Hall edge states in corner-overgrown heterostructures. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	3
50	Electrical contacts to single nanowires: a scalable method allowing multiple devices on a chip. Application to a single nanowire radial p-i-n junction. <i>International Journal of Nanotechnology</i> , <b>2013</b> , 10, 419	1.5	8
49	Polarity assignment in ZnTe, GaAs, ZnO, and GaN-AlN nanowires from direct dumbbell analysis. <i>Nano Letters</i> , <b>2012</b> , 12, 2579-86	11.5	146
48	Cantilever magnetometry of individual Ni nanotubes. <i>Nano Letters</i> , <b>2012</b> , 12, 6139-44	11.5	71
47	Suppression of three dimensional twinning for a 100% yield of vertical GaAs nanowires on silicon. <i>Nanoscale</i> , <b>2012</b> , 4, 1486-90	7.7	68
46	An electrically-driven GaAs nanowire surface plasmon source. <i>Nano Letters</i> , <b>2012</b> , 12, 4943-7	11.5	55
45	Mobility and carrier density in p-type GaAs nanowires measured by transmission Raman spectroscopy. <i>Nanoscale</i> , <b>2012</b> , 4, 1789-93	7.7	57
44	Vertical "III-V" V-shaped nanomembranes epitaxially grown on a patterned Si[001] substrate and their enhanced light scattering. <i>ACS Nano</i> , <b>2012</b> , 6, 10982-91	16.7	39
43	Valence band structure of polytypic zinc-blende/wurtzite GaAs nanowires probed by polarization-dependent photoluminescence. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	53
42	Pressure tuning of the optical properties of GaAs nanowires. <i>ACS Nano</i> , <b>2012</b> , 6, 3284-91	16.7	39
41	Magnetic states of an individual Ni nanotube probed by anisotropic magnetoresistance. <i>Nanoscale</i> , <b>2012</b> , 4, 4989-95	7.7	64
40	Effect of the pn junction engineering on Si microwire-array solar cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2012</b> , 209, 1588-1591	1.6	22
39	Low-temperature preparation of tailored carbon nanostructures in water. <i>Nano Letters</i> , <b>2012</b> , 12, 2573-8	11.5	29

38	Phonon confinement and plasmon-phonon interaction in nanowire-based quantum wells. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	15
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36	Fundamental limits in the external quantum efficiency of single nanowire solar cells. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 263102	3.4	44
35	Direct correlation of crystal structure and optical properties in wurtzite/zinc-blende GaAs nanowire heterostructures. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	181
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33	Free standing modulation doped core-shell GaAs/AlGaAs hetero-nanowires. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2011</b> , 5, 353-355	2.5	27
32	Engineering light absorption in single-nanowire solar cells with metal nanoparticles. <i>New Journal of Physics</i> , <b>2011</b> , 13, 123026	2.9	23
31	Three-dimensional multiple-order twinning of self-catalyzed GaAs nanowires on Si substrates. <i>Nano Letters</i> , <b>2011</b> , 11, 3827-32	11.5	112
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28	Supercooling of nanoscale Ga drops with controlled impurity levels. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	12
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22	Impact of surfaces on the optical properties of GaAs nanowires. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 201907	3.4	194
21	Growth study of indium-catalyzed silicon nanowires by plasma enhanced chemical vapor deposition. <i>Applied Physics A: Materials Science and Processing</i> , <b>2010</b> , 100, 287-296	2.6	46

20	Synthesis parameter space of bismuth catalyzed germanium nanowires. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 163101	3-4	25
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