

Anna Fontcuberta i Morral

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181
papers

8,791
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51
h-index

89
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195
ext. papers

9,718
ext. citations

7.9
avg, IF

6.07
L-index

#	Paper	IF	Citations
181	Single-nanowire solar cells beyond the Shockley-Queisser limit. <i>Nature Photonics</i> , 2013 , 7, 306-310	33.9	607
180	Large-Area Epitaxial Monolayer MoS ₂ . <i>ACS Nano</i> , 2015 , 9, 4611-20	16.7	583
179	Structural and optical properties of high quality zinc-blende/wurtzite GaAs nanowire heterostructures. <i>Physical Review B</i> , 2009 , 80,	3.3	399
178	Ga-assisted catalyst-free growth mechanism of GaAs nanowires by molecular beam epitaxy. <i>Physical Review B</i> , 2008 , 77,	3.3	350
177	Light generation and harvesting in a van der Waals heterostructure. <i>ACS Nano</i> , 2014 , 8, 3042-8	16.7	337
176	Self-assembled quantum dots in a nanowire system for quantum photonics. <i>Nature Materials</i> , 2013 , 12, 439-44	27	278
175	Gallium arsenide p-i-n radial structures for photovoltaic applications. <i>Applied Physics Letters</i> , 2009 , 94, 173108	3.4	239
174	Nucleation mechanism of gallium-assisted molecular beam epitaxy growth of gallium arsenide nanowires. <i>Applied Physics Letters</i> , 2008 , 92, 063112	3.4	239
173	Impact of surfaces on the optical properties of GaAs nanowires. <i>Applied Physics Letters</i> , 2010 , 97, 201907	3.4	194
172	Raman spectroscopy of wurtzite and zinc-blende GaAs nanowires: Polarization dependence, selection rules, and strain effects. <i>Physical Review B</i> , 2009 , 80,	3.3	194
171	Direct correlation of crystal structure and optical properties in wurtzite/zinc-blende GaAs nanowire heterostructures. <i>Physical Review B</i> , 2011 , 83,	3.3	181
170	Polarity assignment in ZnTe, GaAs, ZnO, and GaN-AlN nanowires from direct dumbbell analysis. <i>Nano Letters</i> , 2012 , 12, 2579-86	11.5	146
169	Influence of Cu as a catalyst on the properties of silicon nanowires synthesized by the vapour-solid-solid mechanism. <i>Nanotechnology</i> , 2007 , 18, 305606	3.4	132
168	Prismatic quantum heterostructures synthesized on molecular-beam epitaxy GaAs nanowires. <i>Small</i> , 2008 , 4, 899-903	11	129
167	Untangling the electronic band structure of wurtzite GaAs nanowires by resonant Raman spectroscopy. <i>ACS Nano</i> , 2011 , 5, 7585-92	16.7	112
166	Three-dimensional multiple-order twinning of self-catalyzed GaAs nanowires on Si substrates. <i>Nano Letters</i> , 2011 , 11, 3827-32	11.5	112
165	Vapor Phase Growth of Semiconductor Nanowires: Key Developments and Open Questions. <i>Chemical Reviews</i> , 2019 , 119, 8958-8971	68.1	103

164	P-doping mechanisms in catalyst-free gallium arsenide nanowires. <i>Nano Letters</i> , 2010 , 10, 1734-40	11.5	103
163	Advances in the theory of III \bar{V} nanowire growth dynamics. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 313001	3	102
162	InAs quantum dot arrays decorating the facets of GaAs nanowires. <i>ACS Nano</i> , 2010 , 4, 5985-93	16.7	91
161	Functional carbon nanosheets prepared from hexayne amphiphile monolayers at room temperature. <i>Nature Chemistry</i> , 2014 , 6, 468-76	17.6	85
160	Long range epitaxial growth of prismatic heterostructures on the facets of catalyst-free GaAs nanowires. <i>Journal of Materials Chemistry</i> , 2009 , 19, 840		83
159	Gold-free ternary III-V antimonide nanowire arrays on silicon: twin-free down to the first bilayer. <i>Nano Letters</i> , 2014 , 14, 326-32	11.5	80
158	III-V nanowire arrays: growth and light interaction. <i>Nanotechnology</i> , 2014 , 25, 014015	3.4	79
157	Influence of the (111) twinning on the formation of diamond cubic/diamond hexagonal heterostructures in Cu-catalyzed Si nanowires. <i>Journal of Applied Physics</i> , 2008 , 104, 064312	2.5	77
156	Quantum dot opto-mechanics in a fully self-assembled nanowire. <i>Nano Letters</i> , 2014 , 14, 4454-60	11.5	76
155	Cantilever magnetometry of individual Ni nanotubes. <i>Nano Letters</i> , 2012 , 12, 6139-44	11.5	71
154	Rational strain engineering in delafossite oxides for highly efficient hydrogen evolution catalysis in acidic media. <i>Nature Catalysis</i> , 2020 , 3, 55-63	36.5	70
153	Modulation doping of GaAs/AlGaAs core-shell nanowires with effective defect passivation and high electron mobility. <i>Nano Letters</i> , 2015 , 15, 1336-42	11.5	69
152	Photonic-plasmonic coupling of GaAs single nanowires to optical nanoantennas. <i>Nano Letters</i> , 2014 , 14, 2271-8	11.5	68
151	Suppression of three dimensional twinning for a 100% yield of vertical GaAs nanowires on silicon. <i>Nanoscale</i> , 2012 , 4, 1486-90	7.7	68
150	Observation of Incubation Times in the Nucleation of Silicon Nanowires Obtained by the Vapor-Liquid-Solid Method. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, L190-L193	1.4	65
149	Plasmonic Waveguide-Integrated Nanowire Laser. <i>Nano Letters</i> , 2017 , 17, 747-754	11.5	64
148	Vectorial scanning force microscopy using a nanowire sensor. <i>Nature Nanotechnology</i> , 2017 , 12, 150-155	28.7	64
147	Magnetic states of an individual Ni nanotube probed by anisotropic magnetoresistance. <i>Nanoscale</i> , 2012 , 4, 4989-95	7.7	64

146	Catalyst-free nanowires with axial In _x Ga _{1-x} As/GaAs heterostructures. <i>Nanotechnology</i> , 2009 , 20, 075603,4	3.4	64
145	Field-effect passivation on silicon nanowire solar cells. <i>Nano Research</i> , 2015 , 8, 673-681	10	61
144	Template-Assisted Scalable Nanowire Networks. <i>Nano Letters</i> , 2018 , 18, 2666-2671	11.5	61
143	Position controlled self-catalyzed growth of GaAs nanowires by molecular beam epitaxy. <i>Nanotechnology</i> , 2010 , 21, 435601	3.4	58
142	Gallium assisted plasma enhanced chemical vapor deposition of silicon nanowires. <i>Nanotechnology</i> , 2009 , 20, 155602	3.4	58
141	Mobility and carrier density in p-type GaAs nanowires measured by transmission Raman spectroscopy. <i>Nanoscale</i> , 2012 , 4, 1789-93	7.7	57
140	Size and environment dependence of surface phonon modes of gallium arsenide nanowires as measured by Raman spectroscopy. <i>Nanotechnology</i> , 2008 , 19, 435704	3.4	57
139	InGaAs/InP double heterostructures on InP/Si templates fabricated by wafer bonding and hydrogen-induced exfoliation. <i>Applied Physics Letters</i> , 2003 , 83, 5413-5415	3.4	57
138	An electrically-driven GaAs nanowire surface plasmon source. <i>Nano Letters</i> , 2012 , 12, 4943-7	11.5	55
137	Doping incorporation paths in catalyst-free Be-doped GaAs nanowires. <i>Applied Physics Letters</i> , 2013 , 102, 013117	3.4	55
136	A review of MBE grown 0D, 1D and 2D quantum structures in a nanowire. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 4300	7.1	54
135	Tailoring the diameter and density of self-catalyzed GaAs nanowires on silicon. <i>Nanotechnology</i> , 2015 , 26, 105603	3.4	53
134	Valence band structure of polytypic zinc-blende/wurtzite GaAs nanowires probed by polarization-dependent photoluminescence. <i>Physical Review B</i> , 2012 , 85,	3.3	53
133	Reversal mechanism of an individual Ni nanotube simultaneously studied by torque and SQUID magnetometry. <i>Physical Review Letters</i> , 2013 , 111, 067202	7.4	52
132	Determination of the band gap and the split-off band in wurtzite GaAs using Raman and photoluminescence excitation spectroscopy. <i>Physical Review B</i> , 2011 , 83,	3.3	52
131	Increased Photoconductivity Lifetime in GaAs Nanowires by Controlled n-Type and p-Type Doping. <i>ACS Nano</i> , 2016 , 10, 4219-27	16.7	51
130	Wetting of Ga on SiO _x and Its Impact on GaAs Nanowire Growth. <i>Crystal Growth and Design</i> , 2015 , 15, 3105-3109	3.5	51
129	From Twinning to Pure Zincblende Catalyst-Free InAs(Sb) Nanowires. <i>Nano Letters</i> , 2016 , 16, 637-43	11.5	49

128	General theoretical considerations on nanowire solar cell designs. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009 , 206, 173-178	1.6	47
127	Plasmonic Photodetectors. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2018 , 24, 1-13	3.8	47
126	Bistability of Contact Angle and Its Role in Achieving Quantum-Thin Self-Assisted GaAs nanowires. <i>Nano Letters</i> , 2018 , 18, 49-57	11.5	46
125	Growth study of indium-catalyzed silicon nanowires by plasma enhanced chemical vapor deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 100, 287-296	2.6	46
124	Gold-Free GaAs Nanowire Synthesis and Optical Properties. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2011 , 17, 819-828	3.8	45
123	Three-dimensional nanoscale study of Al segregation and quantum dot formation in GaAs/AlGaAs core-shell nanowires. <i>Applied Physics Letters</i> , 2014 , 105, 243106	3.4	44
122	Fundamental limits in the external quantum efficiency of single nanowire solar cells. <i>Applied Physics Letters</i> , 2011 , 99, 263102	3.4	44
121	Defect Formation in Ga-Catalyzed Silicon Nanowires. <i>Crystal Growth and Design</i> , 2010 , 10, 1534-1543	3.5	42
120	In(Ga)As quantum dot formation on group-III assisted catalyst-free InGaAs nanowires. <i>Nanotechnology</i> , 2011 , 22, 195601	3.4	42
119	Growth mechanisms and optical properties of GaAs-based semiconductor microstructures by selective area epitaxy. <i>Journal of Crystal Growth</i> , 2008 , 310, 1049-1056	1.6	40
118	Vertical "III-V" V-shaped nanomembranes epitaxially grown on a patterned Si[001] substrate and their enhanced light scattering. <i>ACS Nano</i> , 2012 , 6, 10982-91	16.7	39
117	Pressure tuning of the optical properties of GaAs nanowires. <i>ACS Nano</i> , 2012 , 6, 3284-91	16.7	39
116	Ga-assisted growth of GaAs nanowires on silicon, comparison of surface SiO _x of different nature. <i>Journal of Crystal Growth</i> , 2014 , 404, 246-255	1.6	38
115	Compensation mechanism in silicon-doped gallium arsenide nanowires. <i>Applied Physics Letters</i> , 2010 , 97, 223103	3.4	38
114	Semiconductor nanowires: to grow or not to grow?. <i>Materials Today Nano</i> , 2020 , 9, 100058	9.7	37
113	Engineering the Size Distributions of Ordered GaAs Nanowires on Silicon. <i>Nano Letters</i> , 2017 , 17, 4101-4108	10.9	34
112	Raman spectroscopy of self-catalyzed GaAs(1-x)Sb(x) nanowires grown on silicon. <i>Nanotechnology</i> , 2013 , 24, 405707	3.4	34
111	Fundamental aspects to localize self-catalyzed III-V nanowires on silicon. <i>Nature Communications</i> , 2019 , 10, 869	17.4	33

110	Hybrid Semiconductor Nanowire-Metallic Yagi-Uda Antennas. <i>Nano Letters</i> , 2015 , 15, 4889-95	11.5	32
109	Strain-Induced Band Gap Engineering in Selectively Grown GaN-(Al,Ga)N Core-Shell Nanowire Heterostructures. <i>Nano Letters</i> , 2016 , 16, 7098-7106	11.5	31
108	Enhancement of second harmonic signal in nanofabricated cones. <i>Nano Letters</i> , 2013 , 13, 6048-54	11.5	31
107	High Yield of GaAs Nanowire Arrays on Si Mediated by the Pinning and Contact Angle of Ga. <i>Nano Letters</i> , 2015 , 15, 2869-74	11.5	30
106	Dynamic cantilever magnetometry of individual CoFeB nanotubes. <i>Physical Review B</i> , 2016 , 93,	3.3	30
105	Low-temperature preparation of tailored carbon nanostructures in water. <i>Nano Letters</i> , 2012 , 12, 2573-8	11.5	29
104	Impact of the Ga Droplet Wetting, Morphology, and Pinholes on the Orientation of GaAs Nanowires. <i>Crystal Growth and Design</i> , 2016 , 16, 5781-5786	3.5	29
103	Towards defect-free 1-D GaAs/AlGaAs heterostructures based on GaAs nanomembranes. <i>Nanoscale</i> , 2015 , 7, 19453-60	7.7	28
102	Plastic and elastic strain fields in GaAs/Si core-shell nanowires. <i>Nano Letters</i> , 2014 , 14, 1859-64	11.5	28
101	Free standing modulation doped core-shell GaAs/AlGaAs hetero-nanowires. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011 , 5, 353-355	2.5	27
100	Three-dimensional magneto-photoluminescence as a probe of the electronic properties of crystal-phase quantum disks in GaAs nanowires. <i>Nano Letters</i> , 2013 , 13, 5303-10	11.5	26
99	Conductive-probe atomic force microscopy as a characterization tool for nanowire-based solar cells. <i>Nano Energy</i> , 2017 , 41, 566-572	17.1	25
98	Imaging Stray Magnetic Field of Individual Ferromagnetic Nanotubes. <i>Nano Letters</i> , 2018 , 18, 964-970	11.5	25
97	Synthesis parameter space of bismuth catalyzed germanium nanowires. <i>Applied Physics Letters</i> , 2009 , 94, 163101	3.4	25
96	Bandgap engineering in a nanowire: self-assembled 0, 1 and 2D quantum structures. <i>Materials Today</i> , 2013 , 16, 213-219	21.8	24
95	Characterization and analysis of InAs/pBi heterojunction nanowire-based solar cell. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 394017	3	24
94	Single crystalline and core-shell indium-catalyzed germanium nanowires-a systematic thermal CVD growth study. <i>Nanotechnology</i> , 2009 , 20, 245608	3.4	24
93	Visual Understanding of Light Absorption and Waveguiding in Standing Nanowires with 3D Fluorescence Confocal Microscopy. <i>ACS Photonics</i> , 2017 , 4, 2235-2241	6.3	23

92	Engineering light absorption in single-nanowire solar cells with metal nanoparticles. <i>New Journal of Physics</i> , 2011 , 13, 123026	2.9	23
91	High Electron Mobility and Insights into Temperature-Dependent Scattering Mechanisms in InAsSb Nanowires. <i>Nano Letters</i> , 2018 , 18, 3703-3710	11.5	22
90	Nanoskiving core-shell nanowires: a new fabrication method for nano-optics. <i>Nano Letters</i> , 2014 , 14, 524-31	11.5	22
89	Anisotropic magnetoresistance of individual CoFeB and Ni nanotubes with values of up to 1.4% at room temperature. <i>APL Materials</i> , 2014 , 2, 076112	5.7	22
88	Effect of the pn junction engineering on Si microwire-array solar cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 1588-1591	1.6	22
87	Optimizing the yield of A-polar GaAs nanowires to achieve defect-free zinc blende structure and enhanced optical functionality. <i>Nanoscale</i> , 2018 , 10, 17080-17091	7.7	22
86	Efficient Multiterminal Spectrum Splitting via a Nanowire Array Solar Cell. <i>ACS Photonics</i> , 2015 , 2, 1284-1288	12.88	21
85	The use of molecular beam epitaxy for the synthesis of high purity III \bar{V} nanowires. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 454225	1.8	21
84	Tuning growth direction of catalyst-free InAs(Sb) nanowires with indium droplets. <i>Nanotechnology</i> , 2017 , 28, 054001	3.4	20
83	The Role of Polarity in Nonplanar Semiconductor Nanostructures. <i>Nano Letters</i> , 2019 , 19, 3396-3408	11.5	20
82	Cracking the Si Shell Growth in Hexagonal GaP-Si Core-Shell Nanowires. <i>Nano Letters</i> , 2015 , 15, 2974-9	11.5	20
81	Imaging magnetic vortex configurations in ferromagnetic nanotubes. <i>Physical Review B</i> , 2017 , 96,	3.3	20
80	Magnetization reversal of an individual exchange-biased permalloy nanotube. <i>Physical Review B</i> , 2015 , 92,	3.3	20
79	Exciton footprint of self-assembled AlGaAs quantum dots in core-shell nanowires. <i>Physical Review B</i> , 2014 , 90,	3.3	20
78	Growth kinetics and morphological analysis of homoepitaxial GaAs fins by theory and experiment. <i>Physical Review Materials</i> , 2018 , 2,	3.2	20
77	Observation of end-vortex nucleation in individual ferromagnetic nanotubes. <i>Physical Review B</i> , 2018 , 97,	3.3	18
76	III-V Integration on Si(100): Vertical Nanospades. <i>ACS Nano</i> , 2019 , 13, 5833-5840	16.7	17
75	Nanowire-Aperture Probe: Local Enhanced Fluorescence Detection for the Investigation of Live Cells at the Nanoscale. <i>ACS Photonics</i> , 2016 , 3, 1208-1216	6.3	17

74	Modulation of fluorescence signals from biomolecules along nanowires due to interaction of light with oriented nanostructures. <i>Nano Letters</i> , 2015 , 15, 176-81	11.5	16
73	van der Waals Epitaxy of Earth-Abundant Zn ₃ P ₂ on Graphene for Photovoltaics. <i>Crystal Growth and Design</i> , 2020 , 20, 3816-3825	3.5	16
72	Morphology and composition of oxidized InAs nanowires studied by combined Raman spectroscopy and transmission electron microscopy. <i>Nanotechnology</i> , 2016 , 27, 305704	3.4	16
71	Hybrid axial and radial Si-GaAs heterostructures in nanowires. <i>Nanoscale</i> , 2013 , 5, 9633-9	7.7	15
70	Phonon confinement and plasmon-phonon interaction in nanowire-based quantum wells. <i>Physical Review B</i> , 2011 , 83,	3.3	15
69	Controlled synthesis of InAs wires, dot and twin-dot array configurations by cleaved edge overgrowth. <i>Nanotechnology</i> , 2008 , 19, 045303	3.4	14
68	Dopant-Induced Modifications of Ga InP Nanowire-Based p-n Junctions Monolithically Integrated on Si(111). <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 32588-32596	9.5	14
67	Quantum dots in the GaAs/Al _x Ga _{1-x} As core-shell nanowires: Statistical occurrence as a function of the shell thickness. <i>Applied Physics Letters</i> , 2015 , 107, 033106	3.4	13
66	Electrical transport in C-doped GaAs nanowires: surface effects. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013 , 7, 890-893	2.5	13
65	Multiple morphologies and functionality of nanowires made from earth-abundant zinc phosphide. <i>Nanoscale Horizons</i> , 2020 , 5, 274-282	10.8	13
64	Measuring the Optical Absorption of Single Nanowires. <i>Physical Review Applied</i> , 2020 , 14,	4.3	13
63	Doping challenges and pathways to industrial scalability of III-V nanowire arrays. <i>Applied Physics Reviews</i> , 2021 , 8, 011304	17.3	13
62	Highly sensitive piezotronic pressure sensors based on undoped GaAs nanowire ensembles. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 294002	3	12
61	Supercooling of nanoscale Ga drops with controlled impurity levels. <i>Physical Review B</i> , 2011 , 84,	3.3	12
60	Magnetization reversal in individual Py and CoFeB nanotubes locally probed via anisotropic magnetoresistance and anomalous Nernst effect. <i>Applied Physics Letters</i> , 2016 , 108, 132408	3.4	12
59	Revealing Large-Scale Homogeneity and Trace Impurity Sensitivity of GaAs Nanoscale Membranes. <i>Nano Letters</i> , 2017 , 17, 2979-2984	11.5	11
58	Polarization response of nanowires à la carte. <i>Scientific Reports</i> , 2015 , 5, 7651	4.9	11
57	Segregation scheme of indium in AlGaInAs nanowire shells. <i>Physical Review Materials</i> , 2019 , 3,	3.2	11

56	Synthesis, Morphological, and Electro-optical Characterizations of Metal/Semiconductor Nanowire Heterostructures. <i>Nano Letters</i> , 2016 , 16, 3507-13	11.5	11
55	Photophysics behind highly luminescent two-dimensional hybrid perovskite (CH ₃ (CH ₂) ₂ NH ₃) ₂ (CH ₃ NH ₃) ₂ Pb ₃ Br ₁₀ thin films. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 6216-6221	7.1	11
54	Towards higher electron mobility in modulation doped GaAs/AlGaAs core shell nanowires. <i>Nanoscale</i> , 2017 , 9, 7839-7846	7.7	10
53	Thermodynamic re-assessment of the ZnB binary system. <i>Materialia</i> , 2019 , 6, 100301	3.2	10
52	Quantitative Nanoscale Absorption Mapping: A Novel Technique To Probe Optical Absorption of Two-Dimensional Materials. <i>Nano Letters</i> , 2020 , 20, 567-576	11.5	10
51	Questioning liquid droplet stability on nanowire tips: from theory to experiment. <i>Nanotechnology</i> , 2019 , 30, 285604	3.4	9
50	Anisotropic-Strain-Induced Band Gap Engineering in Nanowire-Based Quantum Dots. <i>Nano Letters</i> , 2018 , 18, 2393-2401	11.5	9
49	Polymer Brush Guided Formation of Conformal, Plasmonic Nanoparticle-Based Electrodes for Microwire Solar Cells. <i>Advanced Functional Materials</i> , 2015 , 25, 3958-3965	15.6	9
48	GaAs nanoscale membranes: prospects for seamless integration of III-Vs on silicon. <i>Nanoscale</i> , 2020 , 12, 815-824	7.7	9
47	Towards defect-free thin films of the earth-abundant absorber zinc phosphide by nanopatterning. <i>Nanoscale Advances</i> , 2021 , 3, 326-332	5.1	9
46	Tuning the g-factor of neutral and charged excitons confined to self-assembled (Al,Ga)As shell quantum dots. <i>Applied Physics Letters</i> , 2014 , 105, 223111	3.4	8
45	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> , 2013 , 10, 419	1.5	8
44	Coherent Two-Mode Dynamics of a Nanowire Force Sensor. <i>Physical Review Applied</i> , 2018 , 9,	4.3	8
43	Nanosails Showcasing Zn ₃ As ₂ as an Optoelectronic-Grade Earth Abundant Semiconductor. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019 , 13, 1900084	2.5	7
42	Time-resolved open-circuit conductive atomic force microscopy for direct electromechanical characterisation. <i>Nanotechnology</i> , 2020 , 31, 404003	3.4	7
41	Molecular beam epitaxy of InAs nanowires in SiO nanotube templates: challenges and prospects for integration of III-Vs on Si. <i>Nanotechnology</i> , 2016 , 27, 455601	3.4	7
40	Simultaneous Selective Area Growth of Wurtzite and Zincblende Self-Catalyzed GaAs Nanowires on Silicon. <i>Nano Letters</i> , 2021 , 21, 3139-3145	11.5	7
39	Materials science: How crystals get an edge. <i>Nature</i> , 2016 , 531, 308-9	50.4	6

38	Tuning the response of non-allowed Raman modes in GaAs nanowires. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 095103	3	6
37	Surface Defect Passivation of Silicon Micropillars. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800865	4.6	6
36	Single-Crystalline β -GaS Nanotubes via Epitaxial Conversion of GaAs Nanowires. <i>Nano Letters</i> , 2019 , 19, 8903-8910	11.5	6
35	Raman spectroscopy and lattice dynamics calculations of tetragonally-structured single crystal zinc phosphide (ZnP) nanowires. <i>Nanotechnology</i> , 2021 , 32, 085704	3.4	6
34	Remote Doping of Scalable Nanowire Branches. <i>Nano Letters</i> , 2020 , 20, 3577-3584	11.5	5
33	3D Ordering at the Liquid-Solid Polar Interface of Nanowires. <i>Advanced Materials</i> , 2020 , 32, e2001030	24	5
32	Tilting Catalyst-Free InAs Nanowires by 3D-Twinning and Unusual Growth Directions. <i>Crystal Growth and Design</i> , 2017 , 17, 3596-3605	3.5	4
31	Bottom-up engineering of InAs at the nanoscale: From V-shaped nanomembranes to nanowires. <i>Journal of Crystal Growth</i> , 2015 , 420, 47-56	1.6	4
30	Plasma-Enhanced Atomic Layer Deposition of Nickel Nanotubes with Low Resistivity and Coherent Magnetization Dynamics for 3D Spintronics. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 40443-40452	8.5	4
29	Facet-driven formation of axial and radial In(Ga)As clusters in GaAs nanowires. <i>Journal of Optics (United Kingdom)</i> , 2020 , 22, 084002	1.7	3
28	Increasing N content in GaNAsP nanowires suppresses the impact of polytypism on luminescence. <i>Nanotechnology</i> , 2019 , 30, 405703	3.4	3
27	Probing inhomogeneous composition in core/shell nanowires by Raman spectroscopy. <i>Journal of Applied Physics</i> , 2014 , 116, 184303	2.5	3
26	Hartree simulations of coupled quantum Hall edge states in corner-overgrown heterostructures. <i>Physical Review B</i> , 2013 , 87,	3.3	3
25	Heterotwin ZnP superlattice nanowires: the role of indium insertion in the superlattice formation mechanism and their optical properties. <i>Nanoscale</i> , 2020 , 12, 22534-22540	7.7	3
24	The path towards 1 μ m monocrystalline Zn ₃ P ₂ films on InP: substrate preparation, growth conditions and luminescence properties. <i>JPhys Energy</i> , 2021 , 3, 034011	4.9	3
23	Extraction of p-n junction properties and series resistance in GaAs nanowire-based solar cells using light concentration. <i>Nanotechnology</i> , 2019 , 30, 094001	3.4	3
22	Does desorption affect the length distributions of nanowires?. <i>Nanotechnology</i> , 2019 , 30, 475604	3.4	2
21	Boron quantification, concentration mapping and picosecond excitons dynamics in High-Pressure-High-Temperature diamond by cathodoluminescence. <i>Carbon</i> , 2022 , 191, 48-54	10.4	2

20	Quantum Dots in Nanowires. <i>Semiconductors and Semimetals</i> , 2016 , 159-184	0.6	2
19	Unveiling Temperature-Dependent Scattering Mechanisms in Semiconductor Nanowires Using Optical-Pump Terahertz-Probe Spectroscopy 2019 ,		2
18	Tuning adatom mobility and nanoscale segregation by twin formation and polytypism. <i>Nanotechnology</i> , 2019 , 30, 054006	3.4	2
17	The Advantage of Nanowire Configuration in Band Structure Determination. <i>Advanced Functional Materials</i> , 2021 , 31, 2105426	15.6	2
16	Growth of nanowire arrays from micron-feature templates. <i>Nanotechnology</i> , 2019 , 30, 285302	3.4	1
15	Semiconductor Nanowires for Next Generation Solar Cells 2014 ,		1
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