

Anna Fontcuberta i Morral

List of Publications by Year in descending order

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193
papers

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28190

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195
all docs

195
docs citations

195
times ranked

10097
citing authors

#	ARTICLE	IF	CITATIONS
1	Large-Area Epitaxial Monolayer MoS ₂ . ACS Nano, 2015, 9, 4611-4620.	7.3	712
2	Single-nanowire solar cells beyond the Shockley-Queisser limit. Nature Photonics, 2013, 7, 306-310.	15.6	708
3	Structural and optical properties of high quality zinc-blende/wurtzite GaAs nanowire heterostructures. Physical Review B, 2009, 80, .	1.1	434
4	Light Generation and Harvesting in a van der Waals Heterostructure. ACS Nano, 2014, 8, 3042-3048.	7.3	389
5	Ga-assisted catalyst-free growth mechanism of GaAs nanowires by molecular beam epitaxy. Physical Review B, 2008, 77, .	1.1	386
6	Self-assembled quantum dots in a nanowire system for quantum photonics. Nature Materials, 2013, 12, 439-444.	13.3	306
7	Gallium arsenide p-i-n radial structures for photovoltaic applications. Applied Physics Letters, 2009, 94, .	1.5	270
8	Nucleation mechanism of gallium-assisted molecular beam epitaxy growth of gallium arsenide nanowires. Applied Physics Letters, 2008, 92, .	1.5	261
9	Raman spectroscopy of wurtzite and zinc-blende GaAs nanowires: Polarization dependence, selection rules, and strain effects. Physical Review B, 2009, 80, .	1.1	222
10	Impact of surfaces on the optical properties of GaAs nanowires. Applied Physics Letters, 2010, 97, .	1.5	213
11	Direct correlation of crystal structure and optical properties in wurtzite/zinc-blende GaAs nanowire heterostructures. Physical Review B, 2011, 83, .	1.1	193
12	Polarity Assignment in ZnTe, GaAs, ZnO, and GaN-AlN Nanowires from Direct Dumbbell Analysis. Nano Letters, 2012, 12, 2579-2586.	4.5	161
13	Vapor Phase Growth of Semiconductor Nanowires: Key Developments and Open Questions. Chemical Reviews, 2019, 119, 8958-8971.	23.0	158
14	Influence of Cu as a catalyst on the properties of silicon nanowires synthesized by the vapour-solid mechanism. Nanotechnology, 2007, 18, 305606.	1.3	144
15	Prismatic Quantum Heterostructures Synthesized on Molecular-Beam Epitaxy GaAs Nanowires. Small, 2008, 4, 899-903.	5.2	142
16	Untangling the Electronic Band Structure of Wurtzite GaAs Nanowires by Resonant Raman Spectroscopy. ACS Nano, 2011, 5, 7585-7592.	7.3	126
17	Rational strain engineering in delafossite oxides for highly efficient hydrogen evolution catalysis in acidic media. Nature Catalysis, 2020, 3, 55-63.	16.1	124
18	Three-Dimensional Multiple-Order Twinning of Self-Catalyzed GaAs Nanowires on Si Substrates. Nano Letters, 2011, 11, 3827-3832.	4.5	123

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19	P-Doping Mechanisms in Catalyst-Free Gallium Arsenide Nanowires. <i>Nano Letters</i> , 2010, 10, 1734-1740.	4.5	110
20	Advances in the theory of III-V nanowire growth dynamics. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 313001.	1.3	110
21	InAs Quantum Dot Arrays Decorating the Facets of GaAs Nanowires. <i>ACS Nano</i> , 2010, 4, 5985-5993.	7.3	99
22	Functional carbon nanosheets prepared from hexayne amphiphile monolayers at room temperature. <i>Nature Chemistry</i> , 2014, 6, 468-476.	6.6	97
23	Quantum Dot Opto-Mechanics in a Fully Self-Assembled Nanowire. <i>Nano Letters</i> , 2014, 14, 4454-4460.	4.5	94
24	Template-Assisted Scalable Nanowire Networks. <i>Nano Letters</i> , 2018, 18, 2666-2671.	4.5	92
25	Semiconductor nanowires: to grow or not to grow?. <i>Materials Today Nano</i> , 2020, 9, 100058.	2.3	89
26	Long range epitaxial growth of prismatic heterostructures on the facets of catalyst-free GaAs nanowires. <i>Journal of Materials Chemistry</i> , 2009, 19, 840.	6.7	88
27	Gold-Free Ternary III-V Antimonide Nanowire Arrays on Silicon: Twin-Free down to the First Bilayer. <i>Nano Letters</i> , 2014, 14, 326-332.	4.5	88
28	Plasmonic Photodetectors. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2018, 24, 1-13.	1.9	88
29	III-V nanowire arrays: growth and light interaction. <i>Nanotechnology</i> , 2014, 25, 014015.	1.3	87
30	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, .	1.1	86
31	Vectorial scanning force microscopy using a nanowire sensor. <i>Nature Nanotechnology</i> , 2017, 12, 150-155.	15.6	83
32	Plasmonic Waveguide-Integrated Nanowire Laser. <i>Nano Letters</i> , 2017, 17, 747-754.	4.5	80
33	Cantilever Magnetometry of Individual Ni Nanotubes. <i>Nano Letters</i> , 2012, 12, 6139-6144.	4.5	78
34	Modulation Doping of GaAs/AlGaAs Core-Shell Nanowires With Effective Defect Passivation and High Electron Mobility. <i>Nano Letters</i> , 2015, 15, 1336-1342.	4.5	78
35	Suppression of three dimensional twinning for a 100% yield of vertical GaAs nanowires on silicon. <i>Nanoscale</i> , 2012, 4, 1486.	2.8	73
36	Photonic-Plasmonic Coupling of GaAs Single Nanowires to Optical Nanoantennas. <i>Nano Letters</i> , 2014, 14, 2271-2278.	4.5	73

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37	Magnetic states of an individual Ni nanotube probed by anisotropic magnetoresistance. <i>Nanoscale</i> , 2012, 4, 4989.	2.8	71
38	Catalyst-free nanowires with axial In _x Ga _{1-x} As _y GaAs heterostructures. <i>Nanotechnology</i> , 2009, 20, 075603.	1.3	70
39	Field-effect passivation on silicon nanowire solar cells. <i>Nano Research</i> , 2015, 8, 673-681.	5.8	69
40	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.	0.8	68
41	Gallium assisted plasma enhanced chemical vapor deposition of silicon nanowires. <i>Nanotechnology</i> , 2009, 20, 155602.	1.3	68
42	Position controlled self-catalyzed growth of GaAs nanowires by molecular beam epitaxy. <i>Nanotechnology</i> , 2010, 21, 435601.	1.3	67
43	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.	1.5	66
44	Size and environment dependence of surface phonon modes of gallium arsenide nanowires as measured by Raman spectroscopy. <i>Nanotechnology</i> , 2008, 19, 435704.	1.3	66
45	A review of MBE grown 0D, 1D and 2D quantum structures in a nanowire. <i>Journal of Materials Chemistry C</i> , 2013, 1, 4300.	2.7	66
46	Wetting of Ga on SiO ₂ and Its Impact on GaAs Nanowire Growth. <i>Crystal Growth and Design</i> , 2015, 15, 3105-3109.	1.4	65
47	Increased Photoconductivity Lifetime in GaAs Nanowires by Controlled n-Type and p-Type Doping. <i>ACS Nano</i> , 2016, 10, 4219-4227.	7.3	62
48	Bistability of Contact Angle and Its Role in Achieving Quantum-Thin Self-Assisted GaAs nanowires. <i>Nano Letters</i> , 2018, 18, 49-57.	4.5	62
49	Mobility and carrier density in p-type GaAs nanowires measured by transmission Raman spectroscopy. <i>Nanoscale</i> , 2012, 4, 1789.	2.8	60
50	Reversal Mechanism of an Individual Ni Nanotube Simultaneously Studied by Torque and SQUID Magnetometry. <i>Physical Review Letters</i> , 2013, 111, 067202.	2.9	59
51	Doping incorporation paths in catalyst-free Be-doped GaAs nanowires. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	58
52	An Electrically-Driven GaAs Nanowire Surface Plasmon Source. <i>Nano Letters</i> , 2012, 12, 4943-4947.	4.5	57
53	Valence band structure of polytypic zinc-blende/wurtzite GaAs nanowires probed by polarization-dependent photoluminescence. <i>Physical Review B</i> , 2012, 85, .	1.1	57
54	Tailoring the diameter and density of self-catalyzed GaAs nanowires on silicon. <i>Nanotechnology</i> , 2015, 26, 105603.	1.3	57

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55	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, .	1.1	56
56	From Twinning to Pure Zincblende Catalyst-Free InAs(Sb) Nanowires. <i>Nano Letters</i> , 2016, 16, 637-643.	4.5	56
57	Gold-Free GaAs Nanowire Synthesis and Optical Properties. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2011, 17, 819-828.	1.9	55
58	General theoretical considerations on nanowire solar cell designs. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 173-178.	0.8	52
59	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.	1.1	49
60	Fundamental aspects to localize self-catalyzed III-V nanowires on silicon. <i>Nature Communications</i> , 2019, 10, 869.	5.8	49
61	In(Ga)As quantum dot formation on group-III assisted catalyst-free InGaAs nanowires. <i>Nanotechnology</i> , 2011, 22, 195601.	1.3	48
62	Engineering the Size Distributions of Ordered GaAs Nanowires on Silicon. <i>Nano Letters</i> , 2017, 17, 4101-4108.	4.5	47
63	Defect Formation in Ga-Catalyzed Silicon Nanowires. <i>Crystal Growth and Design</i> , 2010, 10, 1534-1543.	1.4	46
64	Towards defect-free 1-D GaAs/AlGaAs heterostructures based on GaAs nanomembranes. <i>Nanoscale</i> , 2015, 7, 19453-19460.	2.8	46
65	Fundamental limits in the external quantum efficiency of single nanowire solar cells. <i>Applied Physics Letters</i> , 2011, 99, 263102.	1.5	45
66	Three-dimensional nanoscale study of Al segregation and quantum dot formation in GaAs/AlGaAs core-shell nanowires. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	45
67	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.	0.7	44
68	Compensation mechanism in silicon-doped gallium arsenide nanowires. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	43
69	Pressure Tuning of the Optical Properties of GaAs Nanowires. <i>ACS Nano</i> , 2012, 6, 3284-3291.	7.3	43
70	Growth mechanisms and optical properties of GaAs-based semiconductor microstructures by selective area epitaxy. <i>Journal of Crystal Growth</i> , 2008, 310, 1049-1056.	0.7	42
71	Vertical α - β -V-Shaped Nanomembranes Epitaxially Grown on a Patterned Si[001] Substrate and Their Enhanced Light Scattering. <i>ACS Nano</i> , 2012, 6, 10982-10991.	7.3	41
72	Strain-Induced Band Gap Engineering in Selectively Grown GaN/(Al,Ga)N Core/Shell Nanowire Heterostructures. <i>Nano Letters</i> , 2016, 16, 7098-7106.	4.5	41

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73	Hybrid Semiconductor Nanowireâ€“Metallic Yagi-Uda Antennas. Nano Letters, 2015, 15, 4889-4895.	4.5	39
74	Impact of the Ga Droplet Wetting, Morphology, and Pinholes on the Orientation of GaAs Nanowires. Crystal Growth and Design, 2016, 16, 5781-5786.	1.4	38
75	Raman spectroscopy of self-catalyzed GaAs _{1-x} Sb _x nanowires grown on silicon. Nanotechnology, 2013, 24, 405707.	1.3	37
76	Enhancement of Second Harmonic Signal in Nanofabricated Cones. Nano Letters, 2013, 13, 6048-6054.	4.5	35
77	Low-Temperature Preparation of Tailored Carbon Nanostructures in Water. Nano Letters, 2012, 12, 2573-2578.	4.5	34
78	High Yield of GaAs Nanowire Arrays on Si Mediated by the Pinning and Contact Angle of Ga. Nano Letters, 2015, 15, 2869-2874.	4.5	34
79	Conductive-probe atomic force microscopy as a characterization tool for nanowire-based solar cells. Nano Energy, 2017, 41, 566-572.	8.2	34
80	Plastic and Elastic Strain Fields in GaAs/Si Coreâ€“Shell Nanowires. Nano Letters, 2014, 14, 1859-1864.	4.5	32
81	Dynamic cantilever magnetometry of individual CoFeB nanotubes. Physical Review B, 2016, 93, .	1.1	32
82	Imaging Stray Magnetic Field of Individual Ferromagnetic Nanotubes. Nano Letters, 2018, 18, 964-970.	4.5	32
83	Doping challenges and pathways to industrial scalability of IIIâ€“V nanowire arrays. Applied Physics Reviews, 2021, 8, .	5.5	32
84	High Electron Mobility and Insights into Temperature-Dependent Scattering Mechanisms in InAsSb Nanowires. Nano Letters, 2018, 18, 3703-3710.	4.5	31
85	Optimizing the yield of A-polar GaAs nanowires to achieve defect-free zinc blende structure and enhanced optical functionality. Nanoscale, 2018, 10, 17080-17091.	2.8	31
86	The Role of Polarity in Nonplanar Semiconductor Nanostructures. Nano Letters, 2019, 19, 3396-3408.	4.5	31
87	Growth kinetics and morphological analysis of homoepitaxial GaAs fins by theory and experiment. Physical Review Materials, 2018, 2, .	0.9	31
88	Bandgap engineering in a nanowire: self-assembled 0, 1 and 2D quantum structures. Materials Today, 2013, 16, 213-219.	8.3	30
89	Free standing modulation doped coreâ€“shell GaAs/AlGaAs heteroâ€“nanowires. Physica Status Solidi - Rapid Research Letters, 2011, 5, 353-355.	1.2	29
90	Anisotropic magnetoresistance of individual CoFeB and Ni nanotubes with values of up to 1.4% at room temperature. APL Materials, 2014, 2, .	2.2	29

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91	Three-Dimensional Magneto-Photoluminescence as a Probe of the Electronic Properties of Crystal-Phase Quantum Disks in GaAs Nanowires. Nano Letters, 2013, 13, 5303-5310.	4.5	28
92	Visual Understanding of Light Absorption and Waveguiding in Standing Nanowires with 3D Fluorescence Confocal Microscopy. ACS Photonics, 2017, 4, 2235-2241.	3.2	28
93	Efficient Multiterminal Spectrum Splitting via a Nanowire Array Solar Cell. ACS Photonics, 2015, 2, 1284-1288.	3.2	26
94	Nanowire-Aperture Probe: Local Enhanced Fluorescence Detection for the Investigation of Live Cells at the Nanoscale. ACS Photonics, 2016, 3, 1208-1216.	3.2	26
95	Synthesis parameter space of bismuth catalyzed germanium nanowires. Applied Physics Letters, 2009, 94, .	1.5	25
96	Single crystalline and core-shell indium-catalyzed germanium nanowires—a systematic thermal CVD growth study. Nanotechnology, 2009, 20, 245608.	1.3	25
97	Characterization and analysis of InAs/p-Si heterojunction nanowire-based solar cell. Journal Physics D: Applied Physics, 2014, 47, 394017.	1.3	25
98	Nanoskiving Core-shell Nanowires: A New Fabrication Method for Nano-optics. Nano Letters, 2014, 14, 524-531.	4.5	25
99	Imaging magnetic vortex configurations in ferromagnetic nanotubes. Physical Review B, 2017, 96, .	1.1	25
100	The use of molecular beam epitaxy for the synthesis of high purity III-V nanowires. Journal of Physics Condensed Matter, 2008, 20, 454225.	0.7	24
101	Engineering light absorption in single-nanowire solar cells with metal nanoparticles. New Journal of Physics, 2011, 13, 123026.	1.2	24
102	Effect of the pn junction engineering on Si microwire-array solar cells. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 1588-1591.	0.8	24
103	Tuning growth direction of catalyst-free InAs(Sb) nanowires with indium droplets. Nanotechnology, 2017, 28, 054001.	1.3	24
104	III-V Integration on Si(100): Vertical Nanospades. ACS Nano, 2019, 13, 5833-5840.	7.3	24
105	van der Waals Epitaxy of Earth-Abundant Zn ₃ P ₂ on Graphene for Photovoltaics. Crystal Growth and Design, 2020, 20, 3816-3825.	1.4	24
106	Cracking the Si Shell Growth in Hexagonal GaP-Si Core-shell Nanowires. Nano Letters, 2015, 15, 2974-2979.	4.5	23
107	Modulation of Fluorescence Signals from Biomolecules along Nanowires Due to Interaction of Light with Oriented Nanostructures. Nano Letters, 2015, 15, 176-181.	4.5	22
108	Observation of end-vortex nucleation in individual ferromagnetic nanotubes. Physical Review B, 2018, 97, .	1.1	22

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109	Quantitative Nanoscale Absorption Mapping: A Novel Technique To Probe Optical Absorption of Two-Dimensional Materials. <i>Nano Letters</i> , 2020, 20, 567-576.	4.5	22
110	Exciton footprint of self-assembled AlGaAs quantum dots in core-shell nanowires. <i>Physical Review B</i> , 2014, 90, .	1.1	21
111	Magnetization reversal of an individual exchange-biased permalloy nanotube. <i>Physical Review B</i> , 2015, 92, .	1.1	21
112	Measuring the Optical Absorption of Single Nanowires. <i>Physical Review Applied</i> , 2020, 14, .	1.5	19
113	Morphology and composition of oxidized InAs nanowires studied by combined Raman spectroscopy and transmission electron microscopy. <i>Nanotechnology</i> , 2016, 27, 305704.	1.3	18
114	Revealing Large-Scale Homogeneity and Trace Impurity Sensitivity of GaAs Nanoscale Membranes. <i>Nano Letters</i> , 2017, 17, 2979-2984.	4.5	18
115	Dopant-Induced Modifications of Ga _x In _(1-x) P Nanowire-Based p-n Junctions Monolithically Integrated on Si(111). <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 32588-32596.	4.0	18
116	Simultaneous Selective Area Growth of Wurtzite and Zinblende Self-Catalyzed GaAs Nanowires on Silicon. <i>Nano Letters</i> , 2021, 21, 3139-3145.	4.5	18
117	Polarization response of nanowires À la carte. <i>Scientific Reports</i> , 2015, 5, 7651.	1.6	17
118	Phonon confinement and plasmon-phonon interaction in nanowire-based quantum wells. <i>Physical Review B</i> , 2011, 83, .	1.1	16
119	Magnetization reversal in individual Py and CoFeB nanotubes locally probed via anisotropic magnetoresistance and anomalous Nernst effect. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	16
120	Controlled synthesis of InAs wires, dot and twin-dot array configurations by cleaved edge overgrowth. <i>Nanotechnology</i> , 2008, 19, 045303.	1.3	15
121	Hybrid axial and radial Si-GaAs heterostructures in nanowires. <i>Nanoscale</i> , 2013, 5, 9633.	2.8	15
122	Electrical transport in Cd-doped GaAs nanowires: surface effects. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013, 7, 890-893.	1.2	15
123	Towards higher electron mobility in modulation doped GaAs/AlGaAs core shell nanowires. <i>Nanoscale</i> , 2017, 9, 7839-7846.	2.8	15
124	Highly sensitive piezotronic pressure sensors based on undoped GaAs nanowire ensembles. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 294002.	1.3	15
125	Multiple morphologies and functionality of nanowires made from earth-abundant zinc phosphide. <i>Nanoscale Horizons</i> , 2020, 5, 274-282.	4.1	15
126	Synthesis, Morphological, and Electro-optical Characterizations of Metal/Semiconductor Nanowire Heterostructures. <i>Nano Letters</i> , 2016, 16, 3507-3513.	4.5	14

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127	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.	4.0	14
128	Supercooling of nanoscale Ga drops with controlled impurity levels. <i>Physical Review B</i> , 2011, 84, .	1.1	13
129	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, .	1.5	13
130	Coherent Two-Mode Dynamics of a Nanowire Force Sensor. <i>Physical Review Applied</i> , 2018, 9, .	1.5	13
131	Thermodynamic re-assessment of the Zn-P binary system. <i>Materialia</i> , 2019, 6, 100301.	1.3	13
132	Remote Doping of Scalable Nanowire Branches. <i>Nano Letters</i> , 2020, 20, 3577-3584.	4.5	13
133	Towards defect-free thin films of the earth-abundant absorber zinc phosphide by nanopatterning. <i>Nanoscale Advances</i> , 2021, 3, 326-332.	2.2	13
134	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.	2.7	12
135	GaAs nanoscale membranes: prospects for seamless integration of III-Vs on silicon. <i>Nanoscale</i> , 2020, 12, 815-824.	2.8	12
136	Time-resolved open-circuit conductive atomic force microscopy for direct electromechanical characterisation. <i>Nanotechnology</i> , 2020, 31, 404003.	1.3	11
137	Segregation scheme of indium in AlGaInAs nanowire shells. <i>Physical Review Materials</i> , 2019, 3, .	0.9	11
138	Polymer Brush Guided Formation of Conformal, Plasmonic Nanoparticle-Based Electrodes for Microwire Solar Cells. <i>Advanced Functional Materials</i> , 2015, 25, 3958-3965.	7.8	10
139	Anisotropic-Strain-Induced Band Gap Engineering in Nanowire-Based Quantum Dots. <i>Nano Letters</i> , 2018, 18, 2393-2401.	4.5	10
140	3D Ordering at the Liquid-Solid Polar Interface of Nanowires. <i>Advanced Materials</i> , 2020, 32, e2001030.	11.1	10
141	Raman spectroscopy and lattice dynamics calculations of tetragonally-structured single crystal zinc phosphide (Zn ₃ P ₂) nanowires. <i>Nanotechnology</i> , 2021, 32, 085704.	1.3	10
142	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.	0.1	9
143	Questioning liquid droplet stability on nanowire tips: from theory to experiment. <i>Nanotechnology</i> , 2019, 30, 285604.	1.3	9
144	Ni ₈₀ Fe ₂₀ nanotubes with optimized spintronic functionalities prepared by atomic layer deposition. <i>Nanoscale</i> , 2021, 13, 13451-13462.	2.8	9

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145	Tuning the <i>g</i> -factor of neutral and charged excitons confined to self-assembled (Al,Ga)As shell quantum dots. Applied Physics Letters, 2014, 105, .	1.5	8
146	Single-Crystalline Ga_2S_3 Nanotubes via Epitaxial Conversion of GaAs Nanowires. Nano Letters, 2019, 19, 8903-8910.	4.5	8
147	Nanosails Showcasing Zn_3As_2 as an Optoelectronic-Grade Earth Abundant Semiconductor. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1900084.	1.2	8
148	The path towards 1 μm monocrystalline Zn_3P_2 films on InP: substrate preparation, growth conditions and luminescence properties. JPhys Energy, 2021, 3, 034011.	2.3	8
149	Coherent Hole Transport in Selective Area Grown Ge Nanowire Networks. Nano Letters, 2022, 22, 4269-4275.	4.5	8
150	Molecular beam epitaxy of InAs nanowires in SiO_2 nanotube templates: challenges and prospects for integration of III-Vs on Si. Nanotechnology, 2016, 27, 455601.	1.3	7
151	How crystals get an edge. Nature, 2016, 531, 308-309.	13.7	7
152	Tuning the response of non-allowed Raman modes in GaAs nanowires. Journal Physics D: Applied Physics, 2016, 49, 095103.	1.3	7
153	Surface Defect Passivation of Silicon Micropillars. Advanced Materials Interfaces, 2018, 5, 1800865.	1.9	7
154	Heterotwin Zn_3P_2 superlattice nanowires: the role of indium insertion in the superlattice formation mechanism and their optical properties. Nanoscale, 2020, 12, 22534-22540.	2.8	7
155	Rotated domains in selective area epitaxy grown Zn_3P_2 : formation mechanism and functionality. Nanoscale, 2021, 13, 18441-18450.	2.8	7
156	Showcasing the optical properties of monocrystalline zinc phosphide thin films as an earth-abundant photovoltaic absorber. Materials Advances, 2022, 3, 1295-1303.	2.6	7
157	Increasing N content in GaNAsP nanowires suppresses the impact of polytypism on luminescence. Nanotechnology, 2019, 30, 405703.	1.3	6
158	Bottom-up engineering of InAs at the nanoscale: From V-shaped nanomembranes to nanowires. Journal of Crystal Growth, 2015, 420, 47-56.	0.7	5
159	Facet-driven formation of axial and radial In(Ga)As clusters in GaAs nanowires. Journal of Optics (United Kingdom), 2020, 22, 084002.	1.0	5
160	Porous Nitride Light-Emitting Diodes. ACS Photonics, 2022, 9, 1256-1263.	3.2	5
161	Light emission properties of mechanical exfoliation induced extended defects in hexagonal boron nitride flakes. 2D Materials, 2022, 9, 035018.	2.0	5
162	Probing inhomogeneous composition in core/shell nanowires by Raman spectroscopy. Journal of Applied Physics, 2014, 116, 184303.	1.1	4

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163	Tilting Catalyst-Free InAs Nanowires by 3D-Twinning and Unusual Growth Directions. <i>Crystal Growth and Design</i> , 2017, 17, 3596-3605.	1.4	4
164	Extraction of p-n junction properties and series resistance in GaAs nanowire-based solar cells using light concentration. <i>Nanotechnology</i> , 2019, 30, 094001.	1.3	4
165	The Advantage of Nanowire Configuration in Band Structure Determination. <i>Advanced Functional Materials</i> , 2021, 31, 2105426.	7.8	4
166	GaAs nanowires on Si nanopillars: towards large scale, phase-engineered arrays. <i>Nanoscale Horizons</i> , 2022, 7, 211-219.	4.1	4
167	Strain induced lifting of the charged exciton degeneracy in monolayer MoS ₂ on a GaAs nanomembrane. <i>2D Materials</i> , 2022, 9, 045006.	2.0	4
168	Hartree simulations of coupled quantum Hall edge states in corner-overgrown heterostructures. <i>Physical Review B</i> , 2013, 87, .	1.1	3
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