

Daniele Ercolani

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.

102
papers

2,085
citations

25
h-index

40
g-index

114
ext. papers

2,373
ext. citations

6.2
avg. IF

4.54
L-index

#	Paper	IF	Citations
102	High-Mobility Free-Standing InSb Nanoflags Grown on InP Nanowire Stems for Quantum Devices. <i>ACS Applied Nano Materials</i> , 2021 , 4, 5825-5833	5.6	2
101	Self-Catalyzed InSb/InAs Quantum Dot Nanowires. <i>Nanomaterials</i> , 2021 , 11,	5.4	3
100	Electrical probing of carrier separation in InAs/InP/GaAsSb core-dualshell nanowires. <i>Nano Research</i> , 2020 , 13, 1065-1070	10	6
99	Morphology control of single-crystal InSb nanostructures by tuning the growth parameters. <i>Nanotechnology</i> , 2020 , 31, 384002	3.4	4
98	Orbital Tuning of Tunnel Coupling in InAs/InP Nanowire Quantum Dots. <i>Nano Letters</i> , 2020 , 20, 1693-1699	11.5	9
97	Growth and Strain Relaxation Mechanisms of InAs/InP/GaAsSb Core-Dual-Shell Nanowires. <i>Crystal Growth and Design</i> , 2020 , 20, 1088-1096	3.5	5
96	Growth dynamics of InAs/InP nanowire heterostructures by Au-assisted chemical beam epitaxy. <i>Nanotechnology</i> , 2019 , 30, 094003	3.4	10
95	Charge localization and reentrant superconductivity in a quasi-ballistic InAs nanowire coupled to superconductors. <i>Science Advances</i> , 2019 , 5, eaav1235	14.3	10
94	III-V semiconductor nanostructures and iontronics: InAs nanowire-based electric double layer field effect transistors 2019 ,		3
93	Ionic Liquid Gating of Semiconductor Nanostructure-Based Devices. <i>Proceedings (mdpi)</i> , 2019 , 3, 5	0.3	
92	Thermoelectric Conversion at 30 K in InAs/InP Nanowire Quantum Dots. <i>Nano Letters</i> , 2019 , 19, 3033-3039	11.5	34
91	Strong Modulations of Optical Reflectance in Tapered Core-Shell Nanowires. <i>Materials</i> , 2019 , 12,	3.5	8
90	Ionic-Liquid Gating of InAs Nanowire-Based Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2019 , 29, 1804378	15.6	25
89	Field Effect Transistors: Ionic-Liquid Gating of InAs Nanowire-Based Field-Effect Transistors (Adv. Funct. Mater. 3/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970014	15.6	1
88	Manipulation of polarization anisotropy in bare InAs and InAs/GaSb core-shell nanowires. <i>Applied Physics Letters</i> , 2018 , 112, 153104	3.4	
87	Nanoparticle Stability in Axial InAs-InP Nanowire Heterostructures with Atomically Sharp Interfaces. <i>Nano Letters</i> , 2018 , 18, 167-174	11.5	16
86	Mapping the Coulomb Environment in Interference-Quenched Ballistic Nanowires. <i>Nano Letters</i> , 2018 , 18, 124-129	11.5	2

85	Suspended InAs Nanowire-Based Devices for Thermal Conductivity Measurement Using the 3D Method. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 6299-6305	1.6	11
84	Heterogeneous nucleation of catalyst-free InAs nanowires on silicon. <i>Nanotechnology</i> , 2017 , 28, 065603	3.4	6
83	Crystal Phases in Hybrid Metal-Semiconductor Nanowire Devices. <i>Nano Letters</i> , 2017 , 17, 2336-2341	11.5	4
82	Magnetically-driven colossal supercurrent enhancement in InAs nanowire Josephson junctions. <i>Nature Communications</i> , 2017 , 8, 14984	17.4	25
81	Near-field terahertz probes with room-temperature nanodetectors for subwavelength resolution imaging. <i>Scientific Reports</i> , 2017 , 7, 44240	4.9	30
80	InAs nanowire superconducting tunnel junctions: Quasiparticle spectroscopy, thermometry, and nanorefrigeration. <i>Nano Research</i> , 2017 , 10, 3468-3475	10	8
79	Self-Assembled InAs Nanowires as Optical Reflectors. <i>Nanomaterials</i> , 2017 , 7,	5.4	14
78	GHz Electroluminescence Modulation in Nanoscale Subwavelength Emitters. <i>Nano Letters</i> , 2016 , 16, 5521-7	11.5	9
77	Length distributions of Au-catalyzed and In-catalyzed InAs nanowires. <i>Nanotechnology</i> , 2016 , 27, 375602	3.4	27
76	Catalyst Composition Tuning: The Key for the Growth of Straight Axial Nanowire Heterostructures with Group III Interchange. <i>Nano Letters</i> , 2016 , 16, 7183-7190	11.5	22
75	Local noise in a diffusive conductor. <i>Scientific Reports</i> , 2016 , 6, 30621	4.9	21
74	Laser induced photothermal effects on InAs nanowires: tuning the hole density. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 2339-2344	7.1	5
73	Tunable Esaki Effect in Catalyst-Free InAs/GaSb Core-Shell Nanowires. <i>Nano Letters</i> , 2016 , 16, 7950-7955	11.5	26
72	Nucleation and growth mechanism of self-catalyzed InAs nanowires on silicon. <i>Nanotechnology</i> , 2016 , 27, 255601	3.4	19
71	Assessing the thermoelectric properties of single InSb nanowires: the role of thermal contact resistance. <i>Semiconductor Science and Technology</i> , 2016 , 31, 064001	1.8	13
70	Type II band alignment in InAs zinc-blende/wurtzite heterostructured nanowires. <i>Nanotechnology</i> , 2016 , 27, 415201	3.4	4
69	Noise thermometry applied to thermoelectric measurements in InAs nanowires. <i>Semiconductor Science and Technology</i> , 2016 , 31, 104001	1.8	10
68	Gate-Tunable Spatial Modulation of Localized Plasmon Resonances. <i>Nano Letters</i> , 2016 , 16, 5688-93	11.5	20

67	Rapid method for the interconnection of single nano-objects. <i>Materials Research Express</i> , 2015 , 2, 055011.7		
66	Towards a Hybrid High Critical Temperature Superconductor Junction With a Semiconducting InAs Nanowire Barrier. <i>Journal of Superconductivity and Novel Magnetism</i> , 2015 , 28, 3429-3437	1.5	10
65	Suspended InAs nanowire Josephson junctions assembled via dielectrophoresis. <i>Nanotechnology</i> , 2015 , 26, 385302	3.4	13
64	Strain-induced band alignment in wurtzite/zinc-blende InAs heterostructured nanowires. <i>Physical Review B</i> , 2015 , 92,	3.3	9
63	Mapping of axial strain in InAs/InSb heterostructured nanowires. <i>Applied Physics Letters</i> , 2015 , 107, 093104	3.4	4
62	Ultrafast Infrared Nanoscopy with Sub-Cycle Temporal Resolution. <i>Microscopy and Microanalysis</i> , 2015 , 21, 2163-2164	0.5	
61	Controlling the diameter distribution and density of InAs nanowires grown by Au-assisted methods. <i>Semiconductor Science and Technology</i> , 2015 , 30, 115012	1.8	44
60	Complete thermoelectric benchmarking of individual InSb nanowires using combined micro-Raman and electric transport analysis. <i>Nano Research</i> , 2015 , 8, 4048-4060	10	22
59	Catalyst-free growth of InAs nanowires on Si (111) by CBE. <i>Nanotechnology</i> , 2015 , 26, 415604	3.4	25
58	Pb/InAs nanowire Josephson junction with high critical current and magnetic flux focusing. <i>Nano Letters</i> , 2015 , 15, 1803-8	11.5	29
57	One dimensional semiconductor nanostructures: An effective active-material for terahertz detection. <i>APL Materials</i> , 2015 , 3, 026104	5.7	13
56	Detection of a 2.8 THz quantum cascade laser with a semiconductor nanowire field-effect transistor coupled to a bow-tie antenna. <i>Applied Physics Letters</i> , 2014 , 104, 083116	3.4	19
55	Nanoscale spin rectifiers controlled by the Stark effect. <i>Nature Nanotechnology</i> , 2014 , 9, 997-1001	28.7	42
54	Large thermal biasing of individual gated nanostructures. <i>Nano Research</i> , 2014 , 7, 579-587	10	10
53	Ultrafast multi-terahertz nano-spectroscopy with sub-cycle temporal resolution. <i>Nature Photonics</i> , 2014 , 8, 841-845	33.9	171
52	Electrostatic spin control in multi-barrier nanowires. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 394015	3	4
51	Terahertz photodetectors based on tapered semiconductor nanowires. <i>Applied Physics Letters</i> , 2014 , 105, 231112	3.4	13
50	Nanowire Terahertz detectors with a resonant four-leaf-clover-shaped antenna. <i>Optics Express</i> , 2014 , 22, 8996-9003	3.3	15

49	Raman scattering study of InAs nanowires under high pressure. <i>Nanotechnology</i> , 2014 , 25, 465704	3.4	8
48	High-performance room-temperature THz nanodetectors with a narrowband antenna 2014 ,		2
47	Growth of defect-free GaP nanowires. <i>Nanotechnology</i> , 2014 , 25, 205601	3.4	28
46	Nanowire-based field effect transistors for terahertz detection and imaging systems. <i>Nanotechnology</i> , 2013 , 24, 214005	3.4	33
45	Electrical properties and band diagram of InSb-InAs nanowire type-III heterojunctions. <i>Journal of Applied Physics</i> , 2013 , 113, 104307	2.5	3
44	Giant thermovoltage in single InAs nanowire field-effect transistors. <i>Nano Letters</i> , 2013 , 13, 3638-42	11.5	48
43	Electronic band structure of wurtzite GaP nanowires via temperature dependent resonance Raman spectroscopy. <i>Applied Physics Letters</i> , 2013 , 103, 023108	3.4	18
42	Readsorption Assisted Growth of InAs/InSb Heterostructured Nanowire Arrays. <i>Crystal Growth and Design</i> , 2013 , 13, 878-882	3.5	32
41	Internal field induced enhancement and effect of resonance in Raman scattering of InAs nanowires. <i>Solid State Communications</i> , 2013 , 160, 26-31	1.6	5
40	Crystal phase induced bandgap modifications in AlAs nanowires probed by resonant Raman spectroscopy. <i>ACS Nano</i> , 2013 , 7, 1400-7	16.7	21
39	Suppression of lateral growth in InAs/InAsSb heterostructured nanowires. <i>Journal of Crystal Growth</i> , 2013 , 366, 8-14	1.6	18
38	2013 ,		1
37	Se-doping dependence of the transport properties in CBE-grown InAs nanowire field effect transistors. <i>Nanoscale Research Letters</i> , 2012 , 7, 159	5	24
36	Large-area ohmic top contact to vertically grown nanowires using a free-standing Au microplate electrode. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 1860-4	9.5	6
35	Semiconductor nanowire field-effect transistors: towards high-frequency THz detectors 2012 ,		1
34	Terahertz detection by heterostructured InAs/InSb nanowire based field effect transistors. <i>Applied Physics Letters</i> , 2012 , 101, 141103	3.4	23
33	Electrostatic spin control in InAs/InP nanowire quantum dots. <i>Nano Letters</i> , 2012 , 12, 4490-4	11.5	24
32	Growth of InAs/InAsSb heterostructured nanowires. <i>Nanotechnology</i> , 2012 , 23, 115606	3.4	43

31	Modeling of InAs-InSb nanowires grown by Au-assisted chemical beam epitaxy. <i>Nanotechnology</i> , 2012 , 23, 095602	3-4	33
30	Raman sensitivity to crystal structure in InAs nanowires. <i>Applied Physics Letters</i> , 2012 , 100, 143101	3-4	20
29	Room-temperature terahertz detectors based on semiconductor nanowire field-effect transistors. <i>Nano Letters</i> , 2012 , 12, 96-101	11.5	145
28	Semiconductor nanowires for highly sensitive, room-temperature detection of terahertz quantum cascade laser emission. <i>Applied Physics Letters</i> , 2012 , 100, 241101	3-4	37
27	Electron beam induced current in InSb-InAs nanowire type-III heterostructures. <i>Applied Physics Letters</i> , 2012 , 101, 063116	3-4	12
26	Manipulation of electron orbitals in hard-wall InAs/InP nanowire quantum dots. <i>Nano Letters</i> , 2011 , 11, 1695-9	11.5	41
25	Unit cell structure of crystal polytypes in InAs and InSb nanowires. <i>Nano Letters</i> , 2011 , 11, 1483-9	11.5	110
24	Hot-electron effects in InAs nanowire Josephson junctions. <i>Nano Research</i> , 2011 , 4, 259-265	10	32
23	Synthesis of AlAs and AlAs/GaAs Core/Shell Nanowires. <i>Crystal Growth and Design</i> , 2011 , 11, 4053-4058	3.5	10
22	Growth mechanism of InAs/InSb heterostructured nanowires grown by chemical beam epitaxy. <i>Journal of Crystal Growth</i> , 2011 , 323, 304-306	1.6	13
21	InAs/InP/InSb Nanowires as Low Capacitance n ⁺ Heterojunction Diodes. <i>Physical Review X</i> , 2011 , 1,	9.1	19
20	Electronic properties of quantum dot systems realized in semiconductor nanowires. <i>Semiconductor Science and Technology</i> , 2010 , 25, 024007	1.8	27
19	Faceting of InAs/InSb Heterostructured Nanowires. <i>Crystal Growth and Design</i> , 2010 , 10, 4038-4042	3.5	47
18	Pd-Assisted Growth of InAs Nanowires. <i>Crystal Growth and Design</i> , 2010 , 10, 4197-4202	3.5	19
17	Coexistence of vapor-liquid-solid and vapor-solid-solid growth modes in Pd-assisted InAs nanowires. <i>Small</i> , 2010 , 6, 1935-41	11	17
16	InAs/InSb nanowire heterostructures grown by chemical beam epitaxy. <i>Nanotechnology</i> , 2009 , 20, 505605	3.4	112
15	Transport anisotropy in In _{0.75} Ga _{0.25} As two-dimensional electron gases induced by indium concentration modulation. <i>Physical Review B</i> , 2008 , 77,	3.3	16
14	Transport anisotropy in InGaAs 2D electron gases. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 1392-1394	3	3

13	Focused ion beam patterned Hall nano-sensors. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 310, 2752-2754	2.8	3
12	Chemistry and formation process of Ga(Al)As oxide during local anodic oxidation nanolithography. <i>Surface Science</i> , 2006 , 600, 3739-3743	1.8	8
11	Hall nano-probes fabricated by focused ion beam. <i>Nanotechnology</i> , 2006 , 17, 2105-2109	3.4	15
10	X-ray induced variation of the chemistry of GaAs/AlAs oxide nanostructures. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 246, 39-44	1.2	6
9	Desorption dynamics of oxide nanostructures fabricated by local anodic oxidation nanolithography. <i>Journal of Applied Physics</i> , 2005 , 97, 114324	2.5	16
8	Scattering mechanisms in undoped In _{0.75} Ga _{0.25} As/In _{0.75} Al _{0.25} As two-dimensional electron gases. <i>Journal of Crystal Growth</i> , 2005 , 278, 538-543	1.6	18
7	LEEM and XPEEM studies of C-AFM induced surface modifications of thermally grown SiO ₂ . <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005 , 144-147, 1163-1166	1.7	5
6	GaAs Oxide Desorption under Extreme Ultraviolet Photon Flux. <i>Advanced Functional Materials</i> , 2005 , 15, 587-592	15.6	11
5	Strain induced effects on the transport properties of metamorphic InAlAs/InGaAs quantum wells. <i>Thin Solid Films</i> , 2005 , 484, 400-407	2.2	66
4	Evidence of material mixing during local anodic oxidation nanolithography. <i>Journal of Applied Physics</i> , 2005 , 98, 114303	2.5	9
3	Behavior of SiO ₂ nanostructures under intense extreme ultraviolet illumination. <i>Journal of Applied Physics</i> , 2005 , 97, 104333	2.5	4
2	Magnetic field and temperature dependence of an atomic force microscope-defined quantum point contact. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004 , 22, 570		8
1	The graphon-polyelectrolytes interface as a model for coal slurries. <i>Colloids and Surfaces</i> , 1990 , 48, 231-241		9