

Ilaria Zardo

List of Publications by Year in descending order

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51
papers

2,385
citations

236925

25
h-index

223800

46
g-index

51
all docs

51
docs citations

51
times ranked

2884
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural and optical properties of high quality zinc-blende/wurtzite GaAs nanowire heterostructures. Physical Review B, 2009, 80, .	3.2	434
2	Direct Band Gap Wurtzite Gallium Phosphide Nanowires. Nano Letters, 2013, 13, 1559-1563.	9.1	262
3	Raman spectroscopy of wurtzite and zinc-blende GaAs nanowires: Polarization dependence, selection rules, and strain effects. Physical Review B, 2009, 80, .	3.2	222
4	Hexagonal Silicon Realized. Nano Letters, 2015, 15, 5855-5860.	9.1	142
5	Spontaneous Alloy Composition Ordering in GaAs-AlGaAs Core-Shell Nanowires. Nano Letters, 2013, 13, 1522-1527.	9.1	116
6	Thermal conductivity of GaAs nanowires studied by micro-Raman spectroscopy combined with laser heating. Applied Physics Letters, 2010, 97, .	3.3	96
7	Crystal Structure Transfer in Core/Shell Nanowires. Nano Letters, 2011, 11, 1690-1694.	9.1	93
8	Gallium assisted plasma enhanced chemical vapor deposition of silicon nanowires. Nanotechnology, 2009, 20, 155602.	2.6	68
9	A review on III-V core-multishell nanowires: growth, properties, and applications. Journal Physics D: Applied Physics, 2017, 50, 143001.	2.8	63
10	High Mobility One- and Two-Dimensional Electron Systems in Nanowire-Based Quantum Heterostructures. Nano Letters, 2013, 13, 6189-6196.	9.1	56
11	High compositional homogeneity in In-rich InGaAs nanowire arrays on nanoimprinted SiO ₂ /Si (111). Applied Physics Letters, 2012, 101, 043116.	3.3	54
12	Growth study of indium-catalyzed silicon nanowires by plasma enhanced chemical vapor deposition. Applied Physics A: Materials Science and Processing, 2010, 100, 287-296.	2.3	49
13	Defect Formation in Ga-Catalyzed Silicon Nanowires. Crystal Growth and Design, 2010, 10, 1534-1543.	3.0	46
14	Role of microstructure on optical properties in high-uniformity In _{1-x} Ga _x As nanowire arrays: Evidence of a wider wurtzite band gap. Physical Review B, 2013, 87, .	3.2	46
15	Diameter dependence of the thermal conductivity of InAs nanowires. Nanotechnology, 2015, 26, 385401.	2.6	45
16	Pressure Tuning of the Optical Properties of GaAs Nanowires. ACS Nano, 2012, 6, 3284-3291.	14.6	43
17	Effects of stacking variations on the lattice dynamics of InAs nanowires. Physical Review B, 2011, 84, .	3.2	39
18	Optical study of the band structure of wurtzite GaP nanowires. Journal of Applied Physics, 2016, 120, .	2.5	34

#	ARTICLE	IF	CITATIONS
19	Local modification of GaAs nanowires induced by laser heating. <i>Nanotechnology</i> , 2011, 22, 325701.	2.6	33
20	E _{1(A)} Electronic Band Gap in Wurtzite InAs Nanowires Studied by Resonant Raman Scattering. <i>Nano Letters</i> , 2013, 13, 3011-3016.	9.1	32
21	Complete thermoelectric benchmarking of individual InSb nanowires using combined micro-Raman and electric transport analysis. <i>Nano Research</i> , 2015, 8, 4048-4060.	10.4	32
22	Crystalline, Phononic, and Electronic Properties of Heterostructured Polytypic Ge Nanowires by Raman Spectroscopy. <i>Nano Letters</i> , 2018, 18, 7075-7084.	9.1	32
23	Phonon Engineering in Twinning Superlattice Nanowires. <i>Nano Letters</i> , 2019, 19, 4702-4711.	9.1	31
24	Ballistic Phonons in Ultrathin Nanowires. <i>Nano Letters</i> , 2020, 20, 2703-2709.	9.1	30
25	Low-Charge-Noise Nitrogen-Vacancy Centers in Diamond Created Using Laser Writing with a Solid-Immersion Lens. <i>ACS Photonics</i> , 2021, 8, 1726-1734.	6.6	28
26	Single crystalline and core-shell indium-catalyzed germanium nanowires—a systematic thermal CVD growth study. <i>Nanotechnology</i> , 2009, 20, 245608.	2.6	25
27	Nanowires for heat conversion. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 353001.	2.8	24
28	Crystal Phase Induced Bandgap Modifications in AlAs Nanowires Probed by Resonant Raman Spectroscopy. <i>ACS Nano</i> , 2013, 7, 1400-1407.	14.6	21
29	Assessing the thermoelectric properties of single InSb nanowires: the role of thermal contact resistance. <i>Semiconductor Science and Technology</i> , 2016, 31, 064001.	2.0	19
30	Measuring the Optical Absorption of Single Nanowires. <i>Physical Review Applied</i> , 2020, 14, .	3.8	19
31	Probing Lattice Dynamics and Electronic Resonances in Hexagonal Ge and Si _x Ge _{1-x} Alloys in Nanowires by Raman Spectroscopy. <i>ACS Nano</i> , 2020, 14, 6845-6856.	14.6	17
32	Spatially resolved Raman spectroscopy on indium-catalyzed core-shell germanium nanowires: size effects. <i>Nanotechnology</i> , 2010, 21, 105703.	2.6	13
33	Morphological and stoichiometric optimization of Cu ₂ O thin films by deposition conditions and post-growth annealing. <i>Thin Solid Films</i> , 2021, 732, 138763.	1.8	12
34	Effects of dielectric stoichiometry on the photoluminescence properties of encapsulated WSe ₂ monolayers. <i>Nano Research</i> , 2018, 11, 1399-1414.	10.4	12
35	Experimental demonstration of the suppression of optical phonon splitting in 2D materials by Raman spectroscopy. <i>2D Materials</i> , 2020, 7, 035017.	4.4	11
36	Pressure induced phase separation in optimally doped bilayer manganites. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	10

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37	Valence Band Splitting in Wurtzite InGaAs Nanoneedles Studied by Photoluminescence Excitation Spectroscopy. ACS Nano, 2014, 8, 11440-11446.	14.6	10
38	New insights in the lattice dynamics of monolayers, bilayers, and trilayers of WSe ₂ and unambiguous determination of few-layer-flakes TM thickness. 2D Materials, 2020, 7, 025004.	4.4	10
39	Manipulating phonons at the nanoscale: Impurities and boundaries. Current Opinion in Green and Sustainable Chemistry, 2019, 17, 1-7.	5.9	9
40	Unveiling Planar Defects in Hexagonal Group IV Materials. Nano Letters, 2021, 21, 3619-3625.	9.1	8
41	Quasi One-Dimensional Metal-Semiconductor Heterostructures. Nano Letters, 2019, 19, 3892-3897.	9.1	7
42	Pressure dependence of Raman spectrum in InAs nanowires. Journal of Physics Condensed Matter, 2014, 26, 235301.	1.8	6
43	Spatially mapping thermal transport in graphene by an opto-thermal method. Npj 2D Materials and Applications, 2022, 6, .	7.9	6
44	Surface-directed molecular assembly of pentacene on aromatic organophosphonate self-assembled monolayers explored by polarized Raman spectroscopy. Journal of Raman Spectroscopy, 2017, 48, 235-242.	2.5	5
45	Single-step Au-catalysed synthesis and microstructural characterization of core-shell Ge/InTe nanowires by MOCVD. Materials Research Letters, 2018, 6, 29-35.	8.7	5
46	Raman Spectroscopy on Semiconductor Nanowires. , 0, , .		4
47	Addressing Crystal Structure in Semiconductor Nanowires by Polarized Raman Spectroscopy. , 2021, , 307-348.		3
48	Wurtzite Gallium Phosphide has a direct-band gap. , 2013, , .		2
49	Special issue on thermoelectric properties of nanostructured materials. Journal Physics D: Applied Physics, 2018, 51, 430301.	2.8	1
50	Direct band gap wurtzite GaP nanowires for LEDs and quantum devices. Proceedings of SPIE, 2014, , .	0.8	0
51	Thermal rectification. , 2018, , .		0