

Sonia Conesa-Boj

List of Publications by Year in descending order

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59
papers

3,080
citations

186265
28
h-index

175258
52
g-index

59
all docs

59
docs citations

59
times ranked

3516
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural and optical properties of high quality zinc-blende/wurtzite GaAs nanowire heterostructures. <i>Physical Review B</i> , 2009, 80, .	3.2	434
2	Self-assembled quantum dots in a nanowire system for quantum photonics. <i>Nature Materials</i> , 2013, 12, 439-444.	27.5	306
3	Raman spectroscopy of wurtzite and zinc-blende GaAs nanowires: Polarization dependence, selection rules, and strain effects. <i>Physical Review B</i> , 2009, 80, .	3.2	222
4	Direct correlation of crystal structure and optical properties in wurtzite/zinc-blende GaAs nanowire heterostructures. <i>Physical Review B</i> , 2011, 83, .	3.2	193
5	Ballistic superconductivity in semiconductor nanowires. <i>Nature Communications</i> , 2017, 8, 16025.	12.8	181
6	Hexagonal Silicon Realized. <i>Nano Letters</i> , 2015, 15, 5855-5860.	9.1	142
7	Plasma-enhanced low temperature growth of silicon nanowires and hierarchical structures by using tin and indium catalysts. <i>Nanotechnology</i> , 2009, 20, 225604.	2.6	110
8	Hard Superconducting Gap in InSb Nanowires. <i>Nano Letters</i> , 2017, 17, 2690-2696.	9.1	103
9	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
10	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.	9.1	88
11	III-V nanowire arrays: growth and light interaction. <i>Nanotechnology</i> , 2014, 25, 014015.	2.6	87
12	Modulation Doping of GaAs/AlGaAs Core-Shell Nanowires With Effective Defect Passivation and High Electron Mobility. <i>Nano Letters</i> , 2015, 15, 1336-1342.	9.1	78
13	Catalyst-free nanowires with axial In _x Ga _{1-x} As heterostructures. <i>Nanotechnology</i> , 2009, 20, 075603.	2.6	70
14	Gallium assisted plasma enhanced chemical vapor deposition of silicon nanowires. <i>Nanotechnology</i> , 2009, 20, 155602.	2.6	68
15	Analysis of the Atomic Layer Deposited Al ₂ O ₃ field-effect passivation in black silicon. <i>Solar Energy Materials and Solar Cells</i> , 2015, 142, 29-33.	6.2	61
16	Single-Crystalline Hexagonal Silicon-Germanium. <i>Nano Letters</i> , 2017, 17, 85-90.	9.1	59
17	Exciton localization mechanisms in wurtzite/zinc-blende GaAs nanowires. <i>Physical Review B</i> , 2013, 87, .	3.2	53
18	Boosting Hole Mobility in Coherently Strained [110]-Oriented Ge-Si Core-Shell Nanowires. <i>Nano Letters</i> , 2017, 17, 2259-2264.	9.1	51

#	ARTICLE	IF	CITATIONS
19	Growth study of indium-catalyzed silicon nanowires by plasma enhanced chemical vapor deposition. Applied Physics A: Materials Science and Processing, 2010, 100, 287-296. Carrier confinement in GaN/AlN heterostructures. Applied Physics Letters, 2010, 96, 162101. http://www.w3.org/1998/Math/MathML display="inline" x Ga N 1	2.3	49
20			

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37	Illuminating the Electronic Properties of WS ₂ Polytypism with Electron Microscopy. <i>Annalen Der Physik</i> , 2021, 533, 2000499.	2.4	14
38	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, .	3.3	13
39	Charting the low-loss region in electron energy loss spectroscopy with machine learning. <i>Ultramicroscopy</i> , 2021, 222, 113202.	1.9	11
40	Metallic edge states in zig-zag vertically-oriented MoS ₂ nanowalls. <i>Scientific Reports</i> , 2019, 9, 15602.	3.3	10
41	Growth mechanisms and process window for InAs V-shaped nanoscale membranes on Si[001]. <i>Nanotechnology</i> , 2013, 24, 435603.	2.6	9
42	InSb Nanowires with Built-In Ga _x In _{1-x} Sb Tunnel Barriers for Majorana Devices. <i>Nano Letters</i> , 2017, 17, 721-727.	9.1	9
43	Lock-in Ultrafast Electron Microscopy Simultaneously Visualizes Carrier Recombination and Interface-Mediated Trapping. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8880-8886.	4.6	9
44	Robust Sample Preparation of Large-Area In- and Out-of-Plane Cross Sections of Layered Materials with Ultramicrotomy. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 15867-15874.	8.0	8
45	First-Principles Calculation of Optoelectronic Properties in 2D Materials: The Polytypic WS ₂ Case. <i>ACS Physical Chemistry Au</i> , 2022, 2, 191-198.	4.0	7
46	Spatially Resolved Band Gap and Dielectric Function in Two-Dimensional Materials from Electron Energy Loss Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2022, 126, 1255-1262.	2.5	6
47	Bottom-up engineering of InAs at the nanoscale: From V-shaped nanomembranes to nanowires. <i>Journal of Crystal Growth</i> , 2015, 420, 47-56.	1.5	5
48	Molybdenum nanopillar arrays: Fabrication and engineering. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 134, 114903.	2.7	5
49	Probing inhomogeneous composition in core/shell nanowires by Raman spectroscopy. <i>Journal of Applied Physics</i> , 2014, 116, 184303.	2.5	4
50	Morphology-induced spectral modification of self-assembled WS ₂ pyramids. <i>Nanoscale Advances</i> , 2021, 3, 6427-6437.	4.6	3
51	Position-Controlled Fabrication of Vertically Aligned Mo/MoS ₂ Core-Shell Nanopillar Arrays. <i>Advanced Functional Materials</i> , 2022, 32, 2107880.	14.9	3
52	Hybrid III-V/Silicon Nanowires. <i>Semiconductors and Semimetals</i> , 2015, 93, 231-248.	0.7	1
53	(S)TEM tomography of AlAs-GaAs coaxial Nanowires. , 2009, , .		0
54	GaN/AlN Axial Multi Quantum Well Nanowires for Optoelectronic Devices. , 2009, , .		0

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55	Advanced Electron Microscopy Techniques on Semiconductor Nanowires: from Atomic Density of States Analysis to 3D Reconstruction Models. , 2010, , .		0
56	Single Material Band Gap Engineering in GaAs Nanowires. , 2011, , .		0
57	The power of nanowires to revolutionize solar energy. , 2014, , .		0
58	Terahertz spectroscopy of modulation doped core-shell GaAs/AlGaAs nanowires. , 2015, , .		0
59	New opportunities with nanowires. , 2016, , .		0