

Sonia Conesa-Boj

List of Publications by Year in descending order

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59
papers

3,080
citations

186265

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175258

52
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59
all docs

59
docs citations

59
times ranked

3516
citing authors

#	ARTICLE	IF	CITATIONS
1	Position-Controlled Fabrication of Vertically Aligned Mo/MoS ₂ Core-Shell Nanopillar Arrays. <i>Advanced Functional Materials</i> , 2022, 32, 2107880.	14.9	3
2	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
3	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
4	Morphology-induced spectral modification of self-assembled WS ₂ pyramids. <i>Nanoscale Advances</i> , 2021, 3, 6427-6437.	4.6	3
5	Illuminating the Electronic Properties of WS ₂ Polytypism with Electron Microscopy. <i>Annalen Der Physik</i> , 2021, 533, 2000499.	2.4	14
6	Charting the low-loss region in electron energy loss spectroscopy with machine learning. <i>Ultramicroscopy</i> , 2021, 222, 113202.	1.9	11
7	Molybdenum nanopillar arrays: Fabrication and engineering. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 134, 114903.	2.7	5
8	Vertically-oriented MoS ₂ nanosheets for nonlinear optical devices. <i>Nanoscale</i> , 2020, 12, 10491-10497.	5.6	28
9	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
10	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
11	Metallic edge states in zig-zag vertically-oriented MoS ₂ nanowalls. <i>Scientific Reports</i> , 2019, 9, 15602.	3.3	10
12	Boosting Hole Mobility in Coherently Strained [110]-Oriented Ge-Si Core-Shell Nanowires. <i>Nano Letters</i> , 2017, 17, 2259-2264.	9.1	51
13	Towards higher electron mobility in modulation doped GaAs/AlGaAs core shell nanowires. <i>Nanoscale</i> , 2017, 9, 7839-7846.	5.6	15
14	Hard Superconducting Gap in InSb Nanowires. <i>Nano Letters</i> , 2017, 17, 2690-2696.	9.1	103
15	Single-Crystalline Hexagonal Silicon-Germanium. <i>Nano Letters</i> , 2017, 17, 85-90.	9.1	59
16	Strain-Dependent Edge Structures in MoS ₂ Layers. <i>Nano Letters</i> , 2017, 17, 7021-7026.	9.1	40
17	Photon bunching reveals single-electron cathodoluminescence excitation efficiency in InGaN quantum wells. <i>Physical Review B</i> , 2017, 96, .	3.2	33
18	Ballistic superconductivity in semiconductor nanowires. <i>Nature Communications</i> , 2017, 8, 16025.	12.8	181

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19	InSb Nanowires with Built-In Ga _x In _{1-x} Sb Tunnel Barriers for Majorana Devices. Nano Letters, 2017, 17, 721-727.	9.1	9
20	Synthesis, Morphological, and Electro-optical Characterizations of Metal/Semiconductor Nanowire Heterostructures. Nano Letters, 2016, 16, 3507-3513.	9.1	14
21	New opportunities with nanowires. , 2016, , .		0
22	Hybrid III ^V /Silicon Nanowires. Semiconductors and Semimetals, 2015, 93, 231-248.	0.7	1
23	Terahertz spectroscopy of modulation doped core-shell GaAs/AlGaAs nanowires. , 2015, , .		0
24	Modulation Doping of GaAs/AlGaAs Core-Shell Nanowires With Effective Defect Passivation and High Electron Mobility. Nano Letters, 2015, 15, 1336-1342.	9.1	78
25	Hexagonal Silicon Realized. Nano Letters, 2015, 15, 5855-5860.	9.1	142
26	Analysis of the Atomic Layer Deposited Al ₂ O ₃ field-effect passivation in black silicon. Solar Energy Materials and Solar Cells, 2015, 142, 29-33.	6.2	61
27	High Yield of GaAs Nanowire Arrays on Si Mediated by the Pinning and Contact Angle of Ga. Nano Letters, 2015, 15, 2869-2874.	9.1	34
28	Bottom-up engineering of InAs at the nanoscale: From V-shaped nanomembranes to nanowires. Journal of Crystal Growth, 2015, 420, 47-56.	1.5	5
29	Cracking the Si Shell Growth in Hexagonal GaP-Si Core-Shell Nanowires. Nano Letters, 2015, 15, 2974-2979.	9.1	23
30	Quantum dots in the GaAs/Al _x Ga _{1-x} As core-shell nanowires: Statistical occurrence as a function of the shell thickness. Applied Physics Letters, 2015, 107, .	3.3	13
31	Low ensemble disorder in quantum well tube nanowires. Nanoscale, 2015, 7, 20531-20538.	5.6	15
32	The power of nanowires to revolutionize solar energy. , 2014, , .		0
33	Probing inhomogeneous composition in core/shell nanowires by Raman spectroscopy. Journal of Applied Physics, 2014, 116, 184303.	2.5	4
34	III ^V nanowire arrays: growth and light interaction. Nanotechnology, 2014, 25, 014015.	2.6	87
35	Plastic and Elastic Strain Fields in GaAs/Si Core-Shell Nanowires. Nano Letters, 2014, 14, 1859-1864.	9.1	32
36	Gold-Free Ternary III ^V Antimonide Nanowire Arrays on Silicon: Twin-Free down to the First Bilayer. Nano Letters, 2014, 14, 326-332.	9.1	88

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55	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
56	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
57	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
58	Structural and optical properties of high quality zinc-blende/wurtzite GaAs nanowire heterostructures. <i>Physical Review B</i> , 2009, 80, .	3.2	434
59	GaN/AlN Axial Multi Quantum Well Nanowires for Optoelectronic Devices. , 2009, , .		0