## Xavier CartoixÃ

## List of Publications by Year in descending order

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623734 552781 14 26 698 26 citations g-index h-index papers 26 26 26 1228 docs citations times ranked citing authors all docs

#	Article	IF	Citations
1	Multilevel 3-D Device Simulation Approach Applied to Deeply Scaled Nanowire Field Effect Transistors. IEEE Transactions on Electron Devices, 2022, 69, 5276-5282.	3.0	2
2	Hydrodynamic signatures in thermal transport in devices based on two-dimensional materials: An $\langle i \rangle$ ab initio $\langle i \rangle$ study. Physical Review B, 2022, 106, .	3.2	1
3	Scattering in Terms of Bohmian Conditional Wave Functions for Scenarios with Non-Commuting Energy and Momentum Operators. Entropy, 2021, 23, 408.	2.2	2
4	Tunable thermal conductivity of ternary alloy semiconductors from first-principles. Journal Physics D: Applied Physics, 2021, 54, 335302.	2.8	1
5	Atomistic Insights on the Full Operation Cycle of a HfO <sub>2</sub> -Based Resistive Random Access Memory Cell from Molecular Dynamics. ACS Nano, 2021, 15, 12945-12954.	14.6	21
6	New insights in the lattice dynamics of monolayers, bilayers, and trilayers of WSe <sub>2</sub> and unambiguous determination of few-layer-flakes' thickness. 2D Materials, 2020, 7, 025004.	4.4	10
7	Experimental demonstration of the suppression of optical phonon splitting in 2D materials by Raman spectroscopy. 2D Materials, 2020, 7, 035017.	4.4	11
8	Revisiting the Role of Irradiance in the Determination of Sunscreens' Sun Protection Factor. Journal of Physical Chemistry Letters, 2020, 11, 1209-1214.	4.6	5
9	Doping of Ill–V Arsenide and Phosphide Wurtzite Semiconductors. Journal of Physical Chemistry C, 2020, 124, 27203-27212.	3.1	4
10	Schottky barriers, emission regimes and contact resistances in 2H-1T' MoS2 lateral metal-semiconductor junctions from first-principles. 2D Materials, 2020, 7, 045030.	4.4	9
11	Phonon transport across crystal-phase interfaces and twin boundaries in semiconducting nanowires. Nanoscale, 2019, 11, 16007-16016.	5.6	17
12	Phonon Engineering in Twinning Superlattice Nanowires. Nano Letters, 2019, 19, 4702-4711.	9.1	31
13	Indications of Phonon Hydrodynamics in Telescopic Silicon Nanowires. Physical Review Applied, 2019, 11, .	3.8	7
14	Thermal conductivity and phonon hydrodynamics in transition metal dichalcogenides from first-principles. 2D Materials, 2019, 6, 035002.	4.4	39
15	Thermal conductivity for III-V and II-VI semiconductor wurtzite and zinc-blende polytypes: The role of anharmonicity and phase space. Physical Review Materials, 2019, 3, .	2.4	14
16	Full-field thermal imaging of quasiballistic crosstalk reduction in nanoscale devices. Nature Communications, 2018, 9, 255.	12.8	59
17	Electrical contact resistance in graphite–graphene contacts from ab initio methods. Journal of Physics Condensed Matter, 2018, 30, 325302.	1.8	2
18	Thermal conductivity of hexagonal Si and hexagonal Si nanowires from first-principles. Applied Physics Letters, 2017, 111, .	3.3	21

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#	Article	IF	CITATION
19	Optical Emission in Hexagonal SiGe Nanowires. Nano Letters, 2017, 17, 4753-4758.	9.1	51
20	Thermal transport in porous Si nanowires from approach-to-equilibrium molecular dynamics calculations. Applied Physics Letters, 2016, 109, .	3.3	24
21	Thermal boundary resistance in semiconductors by non-equilibrium thermodynamics. Advances in Physics: X, 2016, 1, 246-261.	4.1	9
22	Model for thermal conductivity in nanoporous silicon from atomistic simulations. Physical Review B, 2015, 91, .	3.2	46
23	Quantum-size effects in hafnium-oxide resistive switching. Applied Physics Letters, 2013, 102, 183505.	3.3	151
24	Transport properties of oxygen vacancy filaments in metal/crystalline or amorphous HfO <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:math> /metal structures. Physical Review B, 2012, 86, .	3.2	70
25	Convergence study of neutral and charged defect formation energies in Si nanowires. Physical Review B, 2010, 81, .	3.2	29
26	Theory of Defects in One-Dimensional Systems: Application to Al-Catalyzed Si Nanowires. Nano Letters, 2009, 9, 975-979.	9.1	62