## Miquel LÃ<sup>3</sup>pez-SuÃ;rez

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Piezoresistive Memories Based on Two-Dimensional Nano-Scale Electromechanical Systems. Crystals, 2022, 12, 968.	1.0	0
2	Fast MoS\$\$_2\$\$ thickness identification by transmission imaging. Applied Nanoscience (Switzerland), 2021, 11, 605-610.	1.6	7
3	Observation of second sound in a rapidly varying temperature field in Ge. Science Advances, 2021, 7, .	4.7	40
4	Modeling charge transport in gold nanogranular films. Physical Review Materials, 2021, 5, .	0.9	2
5	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.	2.0	10
6	Quasiballistic phonon transport from first principles. Physical Review B, 2020, 102, .	1.1	6
7	Probing Lattice Dynamics and Electronic Resonances in Hexagonal Ge and Si <sub><i>x</i></sub> Ge <sub>1–<i>x</i></sub> Alloys in Nanowires by Raman Spectroscopy. ACS Nano, 2020, 14, 6845-6856.	7.3	17
8	Tunable MoS <sub>2</sub> strain sensor. IEEE Instrumentation and Measurement Magazine, 2020, 23, 30-33.	1.2	1
9	Phonon transport across crystal-phase interfaces and twin boundaries in semiconducting nanowires. Nanoscale, 2019, 11, 16007-16016.	2.8	17
10	Fundamental Limits in Dissipative Processes during Computation. Entropy, 2019, 21, 822.	1.1	2
11	A microcantilever mechanical antenna. Applied Physics Letters, 2019, 115, .	1.5	1
12	The Cost of Remembering. Understanding Complex Systems, 2019, , 1-8.	0.3	0
13	Low-temperature thermal rectification by tailoring isotope distributions. Physical Review B, 2019, 99, .	1.1	2
14	Interface driven thermal rectification in a graphene–bilayer graphene junction from nonequilibrium molecular dynamics. Journal of Applied Physics, 2018, 124, .	1.1	7
15	Operating gravitational wave detectors far from equilibrium. Classical and Quantum Gravity, 2018, 35, 155018.	1.5	0
16	Electronic transport modulation on suspended few-layer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt;<mml:msub><mml:mi>MoS</mml:mi><mml:mn>2under strain. Physical Review B, 2018, 97, .</mml:mn></mml:msub></mml:math 	:m <b>a.ı</b> <td>ll:msub&gt;</td>	ll:msub>
17	Micro electro-mechanical logic device at fundamental energy limit. European Physical Journal B, 2018, 91, 1.	0.6	0

Cost of remembering a bit of information. Physical Review A, 2018, 97, .

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MIQUEL LÃ<sup>3</sup>PEZ-SUÃiREZ

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19	Thermodynamic reversible transformations in micro-electro-mechanical systems. European Physical Journal B, 2018, 91, 1.	0.6	0
20	Interface-driven thermal rectification in nanoscale systems. Physical Review Materials, 2018, 2, .	0.9	6
21	Computing Below the Expected Energy Limits. Lecture Notes in Networks and Systems, 2017, , 111-117.	0.5	Ο
22	Micro-electromechanical memory bit based on magnetic repulsion. Applied Physics Letters, 2016, 109, 133505.	1.5	4
23	Sub-kBT micro-electromechanical irreversible logic gate. Nature Communications, 2016, 7, 12068.	5.8	44
24	Band gap engineering of MoS2 upon compression. Journal of Applied Physics, 2016, 119, .	1.1	39
25	Nonlinear Dynamics of Ambient Noise-Driven Graphene Nanostructured Devices for Energy Harvesting. , 2016, , 197-212.		Ο
26	Heat production and error probability relation in Landauer reset at effective temperature. Scientific Reports, 2016, 6, 34039.	1.6	8
27	Efficient Nonlinear Energy Harvesting with Wrinkled Piezoelectric Membranes. Energy Harvesting and Systems, 2016, 3, 133-137.	1.7	5
28	Noise energy harvesting in buckled BN nanoribbons from molecular dynamics. Nano Energy, 2015, 15, 329-334.	8.2	25
29	Operating micromechanical logic gates below k <inf>B</inf> T: Physical vs logical reversibility. , 2015, , .		1
30	Reset and switch protocols at Landauer limit in a graphene buckled ribbon. Europhysics Letters, 2015, 111, 10004.	0.7	5
31	Piezoelectric monolayers as nonlinear energy harvesters. Nanotechnology, 2014, 25, 175401.	1.3	30
32	Piezoelectric 2D materials for bistable NEMS energy harvesters. Materials Research Society Symposia Proceedings, 2014, 1701, 1.	0.1	0
33	Fabrication of highly regular suspended graphene nanoribbons through a one-step electron beam lithography process. Microelectronic Engineering, 2014, 129, 81-85.	1.1	13
34	Vibration energy harvesting via parametrically-induced bistability. Journal of Physics: Conference Series, 2014, 557, 012122.	0.3	0
35	Nonlinear Dynamics of an Ambient Noise Driven Array of Coupled Graphene Nanostructured Devices for Energy Harvesting. MATEC Web of Conferences, 2014, 16, 01001.	0.1	1
36	Inducing bistability with local electret technology in a microcantilever based non-linear vibration energy harvester. Applied Physics Letters, 2013, 102, .	1.5	13

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37	Buckling suspended graphene nanoribbons to harvest energy from noisy vibrations. Microelectronic Engineering, 2013, 111, 122-125.	1.1	6
38	Nonlinear dynamics in a graphene nanostructured device for energy harvesting. , 2013, , .		3
39	Nanostructured graphene for energy harvesting. Physical Review B, 2011, 84, .	1.1	27
40	Heterogeneous Integration of Autonomous Systems in Package for Wireless Sensor Networks. Procedia Engineering, 2011, 25, 88-91.	1.2	3