

Carlos Sabater

List of Publications by Year in descending order

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21
papers

306
citations

933447

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h-index

839539

18
g-index

21
all docs

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docs citations

21
times ranked

481
citing authors

#	ARTICLE	IF	CITATIONS
1	Topologically Protected Quantum Transport in Locally Exfoliated Bismuth at Room Temperature. <i>Physical Review Letters</i> , 2013, 110, 176802.	7.8	101
2	Mechanical Annealing of Metallic Electrodes at the Atomic Scale. <i>Physical Review Letters</i> , 2012, 108, 205502.	7.8	37
3	Evidence for non-conservative current-induced forces in the breaking of Au and Pt atomic chains. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 2338-2344.	2.8	26
4	Dynamic bonding of metallic nanocontacts: Insights from experiments and atomistic simulations. <i>Physical Review B</i> , 2016, 93, .	3.2	17
5	Understanding the structure of the first atomic contact in gold. <i>Nanoscale Research Letters</i> , 2013, 8, 257.	5.7	15
6	Influence of Relativistic Effects on the Contact Formation of Transition Metals. <i>Physical Review Letters</i> , 2018, 120, 076802.	7.8	15
7	Dynamic Tunneling Junctions at the Atomic Intersection of Two Twisted Graphene Edges. <i>Nano Letters</i> , 2018, 18, 2505-2510.	9.1	15
8	Role of first-neighbor geometry in the electronic and mechanical properties of atomic contacts. <i>Physical Review B</i> , 2018, 97, .	3.2	12
9	Fast and accurate shot noise measurements on atomic-size junctions in the MHz regime. <i>Review of Scientific Instruments</i> , 2017, 88, 093903.	1.3	11
10	Modeling contact formation between atomic-sized gold tips via molecular dynamics. <i>Journal of Physics: Conference Series</i> , 2015, 574, 012045.	0.4	10
11	Helical nanostructures for organic electronics: the role of topological sulfur in <i>ad hoc</i> synthesized dithia[7]helicenes studied in the solid state and on a gold surface. <i>Nanoscale Advances</i> , 2020, 2, 1921-1926.	4.6	10
12	Identification of vibration modes in single-molecule junctions by strong inelastic signals in noise. <i>Nanoscale</i> , 2019, 11, 19462-19467.	5.6	7
13	In situ transmission electron microscope formation of a single-crystalline Bi film on an amorphous substrate. <i>Applied Physics Letters</i> , 2017, 110, 103101.	3.3	5
14	Spin-lattice dynamics simulation of the Einstein–de Haas effect. <i>Computational Materials Science</i> , 2022, 209, 111359.	3.0	5
15	Inhomogeneous broadening of the conductance histograms for molecular junctions. <i>Low Temperature Physics</i> , 2017, 43, 905-909.	0.6	4
16	Refined electron-spin transport model for single-element ferromagnetic systems: Application to nickel nanocontacts. <i>Physical Review B</i> , 2020, 102, .	3.2	4
17	Directional bonding explains the high conductance of atomic contacts in bcc metals. <i>Physical Review B</i> , 2020, 101, .	3.2	4
18	Revealing the Geometry and Conductance of Double-Stranded Atomic Chains of Gold. <i>Journal of Physical Chemistry C</i> , 2020, 124, 26596-26602.	3.1	3

#	ARTICLE	IF	CITATIONS
19	Raman signal reveals the rhombohedral crystallographic structure in ultra-thin layers of bismuth thermally evaporated on amorphous substrate. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 270, 115240.	3.5	3
20	Conductance quantization in atomic-sized gold contacts using a low-cost mechanically controllable break junction setup. <i>European Journal of Physics</i> , 2020, 41, 065401.	0.6	2
21	Medidas topográficas en superficies atómicamente planas en condiciones ambiente mediante un microscopio de efecto túnel, un enfoque didáctico. <i>Uniciencia</i> , 2019, 33, 30.	0.5	0