

Carlos Sabater

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1718698/publications.pdf>

Version: 2024-02-01

21
papers

306
citations

933447

10
h-index

839539

18
g-index

21
all docs

21
docs citations

21
times ranked

481
citing authors

#	ARTICLE	IF	CITATIONS
1	Spin-lattice dynamics simulation of the Einstein–de Haas effect. Computational Materials Science, 2022, 209, 111359.	3.0	5
2	Raman signal reveals the rhombohedral crystallographic structure in ultra-thin layers of bismuth thermally evaporated on amorphous substrate. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 270, 115240.	3.5	3
3	Refined electron-spin transport model for single-element ferromagnetic systems: Application to nickel nanocontacts. Physical Review B, 2020, 102, .	3.2	4
4	Revealing the Geometry and Conductance of Double-Stranded Atomic Chains of Gold. Journal of Physical Chemistry C, 2020, 124, 26596-26602.	3.1	3
5	Directional bonding explains the high conductance of atomic contacts in bcc metals. Physical Review B, 2020, 101, .	3.2	4
6	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. Nanoscale Advances, 2020, 2, 1921-1926.	4.6	10
7	Conductance quantization in atomic-sized gold contacts using a low-cost mechanically controllable break junction setup. European Journal of Physics, 2020, 41, 065401.	0.6	2
8	Identification of vibration modes in single-molecule junctions by strong inelastic signals in noise. Nanoscale, 2019, 11, 19462-19467.	5.6	7
9	Medidas topográficas en superficies atómicamente planas en condiciones ambiente mediante un microscopio de efecto túnel, un enfoque didáctico. Uniciencia, 2019, 33, 30.	0.5	0
10	Influence of Relativistic Effects on the Contact Formation of Transition Metals. Physical Review Letters, 2018, 120, 076802.	7.8	15
11	Dynamic Tunneling Junctions at the Atomic Intersection of Two Twisted Graphene Edges. Nano Letters, 2018, 18, 2505-2510.	9.1	15
12	Role of first-neighbor geometry in the electronic and mechanical properties of atomic contacts. Physical Review B, 2018, 97, .	3.2	12
13	In situ transmission electron microscope formation of a single-crystalline Bi film on an amorphous substrate. Applied Physics Letters, 2017, 110, 103101.	3.3	5
14	Fast and accurate shot noise measurements on atomic-size junctions in the MHz regime. Review of Scientific Instruments, 2017, 88, 093903.	1.3	11
15	Inhomogeneous broadening of the conductance histograms for molecular junctions. Low Temperature Physics, 2017, 43, 905-909.	0.6	4
16	Dynamic bonding of metallic nanocontacts: Insights from experiments and atomistic simulations. Physical Review B, 2016, 93, .	3.2	17
17	Modeling contact formation between atomic-sized gold tips via molecular dynamics. Journal of Physics: Conference Series, 2015, 574, 012045.	0.4	10
18	Evidence for non-conservative current-induced forces in the breaking of Au and Pt atomic chains. Beilstein Journal of Nanotechnology, 2015, 6, 2338-2344.	2.8	26

#	ARTICLE	IF	CITATIONS
19	Understanding the structure of the first atomic contact in gold. <i>Nanoscale Research Letters</i> , 2013, 8, 257.	5.7	15
20	Topologically Protected Quantum Transport in Locally Exfoliated Bismuth at Room Temperature. <i>Physical Review Letters</i> , 2013, 110, 176802.	7.8	101
21	Mechanical Annealing of Metallic Electrodes at the Atomic Scale. <i>Physical Review Letters</i> , 2012, 108, 205502.	7.8	37