

Nicolas Lorente

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

1,266
citations

430874

18
h-index

361022

35
g-index

36
all docs

36
docs citations

36
times ranked

1594
citing authors

#	ARTICLE	IF	CITATIONS
1	Improvements on non-equilibrium and transport Green function techniques: The next-generation transiesta. Computer Physics Communications, 2017, 212, 8-24.	7.5	256
2	Controlled manipulation of single atoms and small molecules using the scanning tunnelling microscope. Physica Status Solidi (B): Basic Research, 2013, 250, 1671-1751.	1.5	90
3	<i>Colloquium</i>: Atomic spin chains on surfaces. Reviews of Modern Physics, 2019, 91, .	45.6	90
4	Mapping the orbital structure of impurity bound states in a superconductor. Nature Communications, 2017, 8, 15175.	12.8	82
5	Excitation of local magnetic moments by tunneling electrons. Progress in Surface Science, 2012, 87, 63-107.	8.3	60
6	Controlled spin switching in a metallocene molecular junction. Nature Communications, 2017, 8, 1974.	12.8	60
7	Atomic-scale spin sensing with a single molecule at the apex of a scanning tunneling microscope. Science, 2019, 366, 623-627.	12.6	60
8	Efficient Spin-Flip Excitation of a Nickelocene Molecule. Nano Letters, 2017, 17, 1877-1882.	9.1	55
9	Influence of Magnetic Ordering between Cr Adatoms on the Yu-Shiba-Rusinov States of the Bi/Fe Interface. Physical Review Letters, 2018, 120, 167001.	7.8	54
10	Inelastic Spectroscopy Identification of STM-Induced Benzene Dehydrogenation. Physical Review Letters, 2006, 96, 096101.	7.8	52
11	Assembly of Ferrocene Molecules on Metal Surfaces Revisited. Journal of Physical Chemistry Letters, 2015, 6, 395-400.	4.6	41
12	Inducing Open-Shell Character in Porphyrins through Surface-Assisted Phenalenyl π -Extension. Journal of the American Chemical Society, 2020, 142, 18109-18117.	13.7	41
13	On-Surface Engineering of a Magnetic Organometallic Nanowire. Nano Letters, 2016, 16, 588-593.	9.1	34
14	Quenching of magnetic excitations in single adsorbates at surfaces: Mn on CuN/Cu(100). Physical Review B, 2010, 82, .	3.2	32
15	Spin Control Induced by Molecular Charging in a Transport Junction. Nano Letters, 2018, 18, 88-93.	9.1	31
16	Bottom-Up Fabrication and Atomic-Scale Characterization of Triply Linked, Laterally Extended Porphyrin Nanotapes**. Angewandte Chemie - International Edition, 2021, 60, 16208-16214.	13.8	25
17	Cotunneling mechanism for all-electrical electron spin resonance of single adsorbed atoms. Physical Review B, 2019, 100, .	3.2	22
18	From tunneling to contact in a magnetic atom: The non-equilibrium Kondo effect. Journal of Chemical Physics, 2017, 146, 092309.	3.0	20

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19	Adsorption Site Determination of a Molecular Monolayer via Inelastic Tunneling. Nano Letters, 2013, 13, 2346-2350.	9.1	17
20	AFM Imaging of Mercaptobenzoic Acid on Au(110): Submolecular Contrast with Metal Tips. Journal of Physical Chemistry Letters, 2016, 7, 1984-1990.	4.6	15
21	Atomic manipulation of in-gap states in the s -wave wide-band superconductors. Physical Review B, 2021, 104, .	3.2	3
22	Implementing Functionality in Molecular Self-Assembled Monolayers. Nano Letters, 2019, 19, 2750-2757.	9.1	12
23	The Kondo Effect of a Molecular Tip As a Magnetic Sensor. Nano Letters, 2020, 20, 8193-8199.	9.1	12
24	Spin dependent transmission of nickelocene-Cu contacts probed with shot noise. Physical Review B, 2020, 101, .	3.2	12
25	Electron Paramagnetic Resonance of Alkali Metal Atoms and Dimers on Ultrathin MgO. Nano Letters, 2022, 22, 4176-4181.	9.1	12
26	Efficient Ab Initio Multiplet Calculations for Magnetic Adatoms on MgO. Journal of Physical Chemistry A, 2020, 124, 2318-2327.	2.5	11
27	A theoretical review on the single-impurity electron spin resonance on surfaces. Progress in Surface Science, 2021, 96, 100625.	8.3	10
28	Vibron-assisted spin excitation in a magnetically anisotropic molecule. Nature Communications, 2020, 11, 1619.	12.8	9
29	On-Surface Atom-by-Atom-Assembled Aluminum Binuclear Tetrabenzophenazine Organometallic Magnetic Complex. Nano Letters, 2020, 20, 384-388.	9.1	8
30	Superconducting Scanning Tunneling Microscope Tip to Reveal Sub-millielectronvolt Magnetic Energy Variations on Surfaces. Journal of Physical Chemistry Letters, 2021, 12, 2983-2989.	4.6	7
31	Directionality in van der Waals Interactions: The Case of 4-Acetylbiphenyl Adsorbed on Au(111). Journal of Physical Chemistry C, 2020, 124, 4545-4551.	3.1	5
32	Bottom-Up Fabrication and Atomic-Scale Characterization of Triply Linked, Laterally Extended Porphyrin Nanotapes**. Angewandte Chemie, 2021, 133, 16344-16350.	2.0	5
33	Doublet-Singlet-Doublet Transition in a Single Organic Molecule Magnet On-Surface Constructed with up to 3 Aluminum Atoms. Nano Letters, 2021, 21, 8317-8323.	9.1	5
34	Calculations of in-gap states of ferromagnetic spin chains on s -wave wide-band superconductors. Physical Review B, 2021, 104, .	3.2	3
35	All-electric electron spin resonance studied by means of Floquet quantum master equations. Physical Review B, 2021, 104, .	3.2	3
36	Challenges in the synthesis of corannulene-based non-planar nanographenes on Au(111) surfaces. Physical Chemistry Chemical Physics, 2021, 23, 10845-10851.	2.8	2