

# Nicolas Lorente

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7637438/publications.pdf>

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	Electron Paramagnetic Resonance of Alkali Metal Atoms and Dimers on Ultrathin MgO. <i>Nano Letters</i> , 2022, 22, 4176-4181.	9.1	12
2	Superconducting Scanning Tunneling Microscope Tip to Reveal Sub-millielectronvolt Magnetic Energy Variations on Surfaces. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2983-2989.	4.6	7
3	A theoretical review on the single-impurity electron spin resonance on surfaces. <i>Progress in Surface Science</i> , 2021, 96, 100625.	8.3	10
4	Bottom-up Fabrication and Atomic-scale Characterization of Triply Linked, Laterally Extended Porphyrin Nanotapes**. <i>Angewandte Chemie</i> , 2021, 133, 16344-16350.	2.0	5
5	Bottom-up Fabrication and Atomic-scale Characterization of Triply Linked, Laterally Extended Porphyrin Nanotapes**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16208-16214.	13.8	25
6	Atomic manipulation of in-gap states in the $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle \hat{\psi} \langle / \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \hat{a}^\dagger \langle / \text{mml:mo} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \hat{a} \langle / \text{mml:mi} \rangle \langle / \text{mml:msub} \rangle \langle / \text{mml:math} \rangle$ . <i>Physical Review B</i> , 2021, 104, .		
7	Doublet-Singlet-Doublet Transition in a Single Organic Molecule Magnet On-Surface Constructed with up to 3 Aluminum Atoms. <i>Nano Letters</i> , 2021, 21, 8317-8323.	9.1	5
8	Challenges in the synthesis of corannulene-based non-planar nanographenes on Au(111) surfaces. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 10845-10851.	2.8	2
9	Calculations of in-gap states of ferromagnetic spin chains on $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle \hat{s} \langle / \text{mml:mi} \rangle \langle / \text{mml:math} \rangle$ -wave wide-band superconductors. <i>Physical Review B</i> , 2021, 104, .	3.2	3
10	All-electric electron spin resonance studied by means of Floquet quantum master equations. <i>Physical Review B</i> , 2021, 104, .	3.2	3
11	On-Surface Atom-by-Atom-Assembled Aluminum Binuclear Tetrabenzophenazine Organometallic Magnetic Complex. <i>Nano Letters</i> , 2020, 20, 384-388.	9.1	8
12	Inducing Open-Shell Character in Porphyrins through Surface-Assisted Phenalenyl π-Extension. <i>Journal of the American Chemical Society</i> , 2020, 142, 18109-18117.	13.7	41
13	The Kondo Effect of a Molecular Tip As a Magnetic Sensor. <i>Nano Letters</i> , 2020, 20, 8193-8199.	9.1	12
14	Vibron-assisted spin excitation in a magnetically anisotropic molecule. <i>Nature Communications</i> , 2020, 11, 1619.	12.8	9
15	Efficient Ab Initio Multiplet Calculations for Magnetic Adatoms on MgO. <i>Journal of Physical Chemistry A</i> , 2020, 124, 2318-2327.	2.5	11
16	Spin dependent transmission of nickelocene-Cu contacts probed with shot noise. <i>Physical Review B</i> , 2020, 101, .	3.2	12
17	Directionality in van der Waals Interactions: The Case of 4-Acetyl biphenyl Adsorbed on Au(111). <i>Journal of Physical Chemistry C</i> , 2020, 124, 4545-4551.	3.1	5
18	Cotunneling mechanism for all-electrical electron spin resonance of single adsorbed atoms. <i>Physical Review B</i> , 2019, 100,	3.2	22

#	ARTICLE	IF	CITATIONS
19	Atomic-scale spin sensing with a single molecule at the apex of a scanning tunneling microscope. <i>Science</i> , 2019, 366, 623-627.	12.6	60
20	<i>Colloquium</i>: Atomic spin chains on surfaces. <i>Reviews of Modern Physics</i> , 2019, 91, .	45.6	90
21	Implementing Functionality in Molecular Self-Assembled Monolayers. <i>Nano Letters</i> , 2019, 19, 2750-2757.	9.1	12
22	Influence of Magnetic Ordering between Cr Adatoms on the Yu-Shiba-Rusinov States of the $\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle mml:mrow>\langle mml:mi>\hat{^2}\langle mml:mi>\langle mml:mtext>\hat{^2}\langle mml:mtext>\langle mml:msub>\langle mml:mrow>\langle mml:mi>^{7.8}Bi\langle mml:mi>\hat{^54}$ Physical Review Letters, 2018, 120, 167001.	7.8	54
23	Spin Control Induced by Molecular Charging in a Transport Junction. <i>Nano Letters</i> , 2018, 18, 88-93.	9.1	31
24	Efficient Spin-Flip Excitation of a Nickelocene Molecule. <i>Nano Letters</i> , 2017, 17, 1877-1882.	9.1	55
25	From tunneling to contact in a magnetic atom: The non-equilibrium Kondo effect. <i>Journal of Chemical Physics</i> , 2017, 146, 092309.	3.0	20
26	Mapping the orbital structure of impurity bound states in a superconductor. <i>Nature Communications</i> , 2017, 8, 15175.	12.8	82
27	Controlled spin switching in a metallocene molecular junction. <i>Nature Communications</i> , 2017, 8, 1974.	12.8	60
28	Improvements on non-equilibrium and transport Green function techniques: The next-generation trieste. <i>Computer Physics Communications</i> , 2017, 212, 8-24.	7.5	256
29	AFM Imaging of Mercaptobenzoic Acid on Au(110): Submolecular Contrast with Metal Tips. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1984-1990.	4.6	15
30	On-Surface Engineering of a Magnetic Organometallic Nanowire. <i>Nano Letters</i> , 2016, 16, 588-593.	9.1	34
31	Assembly of Ferrocene Molecules on Metal Surfaces Revisited. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 395-400.	4.6	41
32	Controlled manipulation of single atoms and small molecules using the scanning tunnelling microscope. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 1671-1751.	1.5	90
33	Adsorption Site Determination of a Molecular Monolayer via Inelastic Tunneling. <i>Nano Letters</i> , 2013, 13, 2346-2350.	9.1	17
34	Excitation of local magnetic moments by tunneling electrons. <i>Progress in Surface Science</i> , 2012, 87, 63-107.	8.3	60
35	Quenching of magnetic excitations in single adsorbates at surfaces: Mn on CuN/Cu(100). <i>Physical Review B</i> , 2010, 82, .	3.2	32
36	Inelastic Spectroscopy Identification of STM-Induced Benzene Dehydrogenation. <i>Physical Review Letters</i> , 2006, 96, 096101.	7.8	52