

Nicolas NÃ©el

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7419546/publications.pdf>

Version: 2024-02-01

81
papers

1,860
citations

257450

24
h-index

289244

40
g-index

82
all docs

82
docs citations

82
times ranked

1850
citing authors

#	ARTICLE	IF	CITATIONS
1	Conductance and Kondo Effect in a Controlled Single-Atom Contact. Physical Review Letters, 2007, 98, 016801.	7.8	161
2	Controlled Contact to aC60Molecule. Physical Review Letters, 2007, 98, 065502.	7.8	126
3	Electron-Plasmon and Electron-Electron Interactions at a Single Atom Contact. Physical Review Letters, 2009, 102, 057401.	7.8	91
4	Controlling the Kondo Effect in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle \text{mml:msub} \langle \text{mml:mi} \rangle \text{CoCu} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{n} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle \text{Clusters}$ Atom by Atom. Physical Review Letters, 2008, 101, 266803.	7.8	77
5	Local density of states from constant-current tunneling spectra. Physical Review B, 2009, 80, .	3.2	72
6	Contact to single atoms and molecules with the tip of a scanning tunnelling microscope. Journal of Physics Condensed Matter, 2008, 20, 223001.	1.8	66
7	Highly Periodic Fullerene Nanomesh. Advanced Materials, 2006, 18, 174-177.	21.0	64
8	Spatially resolved conductance of oriented C60. New Journal of Physics, 2008, 10, 065012.	2.9	60
9	Two-Site Kondo Effect in Atomic Chains. Physical Review Letters, 2011, 107, 106804.	7.8	58
10	Conductance of Oriented C ₆₀ Molecules. Nano Letters, 2008, 8, 1291-1295.	9.1	57
11	Self-organization of cobalt-phthalocyanine on a vicinal gold surface revealed by scanning tunnelling microscopy. Surface Science, 2007, 601, 4180-4184.	1.9	54
12	Controlled single atom and single molecule contacts. Physical Chemistry Chemical Physics, 2010, 12, 1022-1032.	2.8	43
13	Fullerene nanowires on a vicinal gold surface. Applied Physics Letters, 2006, 88, 163101.	3.3	41
14	Two-Level Conductance Fluctuations of a Single-Molecule Junction. Nano Letters, 2011, 11, 3593-3596.	9.1	39
15	Single-atom contacts with a scanning tunnelling microscope. New Journal of Physics, 2009, 11, 125006.	2.9	37
16	Electronic structure of C60 on Au(887). Journal of Chemical Physics, 2006, 125, 144719.	3.0	36
17	Unoccupied states of individual silver clusters and chains on Ag(111). Physical Review B, 2008, 77, .	3.2	35
18	Quantized Conductance of a Single Magnetic Atom. Physical Review Letters, 2009, 102, 086805.	7.8	33

#	ARTICLE	IF	CITATIONS
19	Kondo effect of a Co atom on Cu(111) in contact with an iron tip. Physical Review B, 2010, 82, .	3.2	32
20	From Meandering to Faceting, Is Step Flow Growth Ever Stable?. Physical Review Letters, 2003, 91, 226103.	7.8	30
21	Tunneling Anisotropic Magnetoresistance at the Single-Atom Limit. Physical Review Letters, 2013, 110, 037202.	7.8	30
22	Rotation of C_{60} on a single-molecule contact. Physical Review B, 2008, 77, .	7.8	27
23	Phthalocyanine adsorption to graphene on Ir(111): Evidence for decoupling from vibrational spectroscopy. Journal of Chemical Physics, 2014, 141, 184308.	3.0	26
24	Filling the Gap: Li-Intercalated Graphene on Ir(111). Journal of Physical Chemistry C, 2016, 120, 5067-5073.	3.1	26
25	Electronic Ground-State and Orbital Ordering of Iron Phthalocyanine on H/Si(111) Unraveled by Spatially Resolved Tunneling Spectroscopy. Journal of Physical Chemistry C, 2012, 116, 20882-20886.	3.1	24
26	Electron and Cooper-pair transport across a single magnetic molecule explored with a scanning tunneling microscope. Physical Review B, 2018, 97, .	3.2	23
27	Dynamics of surface-localised electronic excitations studied with the scanning tunnelling microscope. Progress in Surface Science, 2007, 82, 293-312.	8.3	22
28	Depopulation of Single-Phthalocyanine Molecular Orbitals upon Pyrrolic-Hydrogen Abstraction on Graphene. ACS Nano, 2016, 10, 2010-2016.	14.6	22
29	Understanding and Engineering Phonon-Mediated Tunneling into Graphene on Metal Surfaces. Nano Letters, 2018, 18, 5697-5701.	9.1	22
30	Spontaneous structural pattern formation at the nanometre scale in kinetically restricted homoepitaxy on vicinal surfaces. Journal of Physics Condensed Matter, 2003, 15, S3227-S3240.	1.8	21
31	Spin valve effect in single-atom contacts. New Journal of Physics, 2011, 13, 085011.	2.9	20
32	Control of spin-polarized current in a scanning tunneling microscope by single-atom transfer. Applied Physics Letters, 2010, 96, 132505.	3.3	19
33	Oxygen vibrations and acoustic surface plasmon on Be(0001). Physical Review B, 2012, 86, .	3.2	19
34	Inelastic electron tunneling into graphene nanostructures on a metal surface. Physical Review B, 2017, 95, .	3.2	18
35	Molecules on vicinal Au surfaces studied by scanning tunnelling microscopy. Journal of Physics Condensed Matter, 2006, 18, S51-S66.	1.8	17
36	Conductance of single atoms and molecules studied with a scanning tunnelling microscope. Nanotechnology, 2007, 18, 044027.	2.6	17

#	ARTICLE	IF	CITATIONS
37	Plasticity of single-atom Pb junctions. <i>Physical Review B</i> , 2016, 93, .	3.2	15
38	Electric-Field Control of a Single-Atom Polar Bond. <i>Physical Review Letters</i> , 2021, 126, 216801.	7.8	15
39	Lateral Electron Confinement with Open Boundaries: Quantum Well States above Nanocavities at Pb(111). <i>Physical Review Letters</i> , 2016, 117, 136803.	7.8	14
40	Spectroscopy of an atom between two electrodes. <i>Physical Review B</i> , 2008, 78, .	3.2	12
41	Kondo effect of single Co atoms on Au(110). <i>Physical Review B</i> , 2015, 91, .	3.2	12
42	Spatial modulation of d states in a nanoscale Co island. <i>Chemical Physics Letters</i> , 2009, 484, 59-63.	2.6	11
43	Preparation of graphene bilayers on platinum by sequential chemical vapour deposition. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 3140-3144.	2.8	11
44	Energy-resolved spin-polarized tunneling and exchange coupling of Co and Cr atoms on Fe islands on W(110). <i>Physical Review B</i> , 2012, 85, .	3.2	10
45	Ballistic Anisotropic Magnetoresistance of Single-Atom Contacts. <i>Nano Letters</i> , 2016, 16, 1450-1454.	9.1	10
46	Structural and local electronic properties of clean and Li-intercalated graphene on SiC(0001). <i>Surface Science</i> , 2020, 699, 121638.	1.9	10
47	Tunneling magnetoresistance and exchange interaction in single-atom contacts. <i>Physical Review B</i> , 2012, 86, .	3.2	9
48	Ordered Superstructures of a Molecular Electron Donor on Au(111). <i>Langmuir</i> , 2017, 33, 6978-6984.	3.5	9
49	Nonequilibrium Bond Forces in Single-Molecule Junctions. <i>Nano Letters</i> , 2019, 19, 7845-7851.	9.1	9
50	Local heating at a ferromagnet-metal interface. <i>Applied Physics Letters</i> , 2009, 95, 203103.	3.3	8
51	Exciting vibrons in both frontier orbitals of a single hydrocarbon molecule on graphene. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 065001.	1.8	8
52	Atomic Force Extrema Induced by the Bending of a CO-Functionalized Probe. <i>Nano Letters</i> , 2021, 21, 2318-2323.	9.1	8
53	Electronic and magnetic states of Mn ₂ and Mn ₂ H on Ag(111). <i>New Journal of Physics</i> , 2014, 16, 063021.	2.9	7
54	Spectroscopy of transmission resonances through a C ₆₀ junction. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 015001.	1.8	7

#	ARTICLE	IF	CITATIONS
55	Asymmetry parameter of peaked Fano line shapes. <i>Review of Scientific Instruments</i> , 2016, 87, 103901.	1.3	7
56	Impact of Atomic-Scale Contact Geometry on Andreev Reflection. <i>Physical Review Letters</i> , 2017, 118, 107001.	7.8	7
57	Template Effect of the Graphene Moiré Lattice on Phthalocyanine Assembly. <i>Molecules</i> , 2017, 22, 731.	3.8	7
58	Probing site-dependent decoupling of hexagonal boron nitride with molecular frontier orbitals. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019, 37, 061404.	2.1	7
59	Dissimilar Decoupling Behavior of Two-Dimensional Materials on Metal Surfaces. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 5204-5211.	4.6	7
60	Silver oligomer and single fullerene electronic properties revealed by a scanning tunnelling microscope. <i>European Physical Journal D</i> , 2007, 45, 465-469.	1.3	6
61	Superstructures and Electronic Properties of Manganese-Phthalocyanine Molecules on Au(110) from Submonolayer Coverage to Ultrathin Molecular Films. <i>Langmuir</i> , 2016, 32, 6843-6850.	3.5	6
62	Spectroscopic Line Shapes of Vibrational Quanta in the Presence of Molecular Resonances. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2388-2393.	4.6	6
63	Open-boundary reflection of quantum well states at Pb(111). <i>Physical Review B</i> , 2017, 96, .	3.2	6
64	Local Probes of Graphene Lattice Dynamics. <i>Small Methods</i> , 2020, 4, 1900817.	8.6	6
65	Line shapes in inelastic electron tunneling spectroscopy of single-molecule junctions. <i>Physical Review B</i> , 2017, 96, .	3.2	5
66	Manipulation of the two-site Kondo effect in linear $\text{CoCu}_n\text{CoCu}_m$ clusters. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 055303.	1.8	5
67	Single-Co Kondo effect in atomic Cu wires on Cu(111). <i>Physical Review Research</i> , 2020, 2, .	3.6	5
68	Atom-by-Atom Dehalogenation of a Porphyrin Molecule Adsorbed on Ag(111). <i>Journal of Physical Chemistry C</i> , 2014, 118, 30162-30169.	3.1	4
69	Scanning tunneling microscopy and spectroscopy of rubrene on clean and graphene-covered metal surfaces. <i>Beilstein Journal of Nanotechnology</i> , 2020, 11, 1157-1167.	2.8	4
70	Exploring the Organic-Inorganic Interface With a Scanning Tunneling Microscope. , 2018, , 81-98.		3
71	Moving atoms on surfaces: Impact of external parameters on required lateral force. <i>Physical Review B</i> , 2018, 98, .	3.2	3
72	Probing relaxations of atomic-scale junctions in the Pauli repulsion range. <i>New Journal of Physics</i> , 2019, 21, 103041.	2.9	3

#	ARTICLE	IF	CITATIONS
73	Quantifying Force and Energy in Single-Molecule Metalation. Journal of the American Chemical Society, 2022, , .	13.7	3
74	Voltage-dependent conductance states of a single-molecule junction. Journal of Physics Condensed Matter, 2012, 24, 394012.	1.8	2
75	Tailoring Intercalant Assemblies at the Grapheneâ€Metal Interface. Langmuir, 2019, 35, 2554-2560.	3.5	2
76	Scanning Tunneling Microscopic Investigations into the Conductance of Single-Atom Junctions. Journal of Scanning Probe Microscopy, 2009, 4, 49-65.	0.0	2
77	Scanning Tunneling Spectroscopies of Magnetic Atoms, Clusters, and Molecules. Nanoscience and Technology, 2018, , 25-53.	1.5	1
78	Second Floor of Flatland: Epitaxial Growth of Graphene on Hexagonal Boron Nitride. Small, 2021, 17, 2102747.	10.0	1
79	Monolayer and Bilayer Graphene on Ru(0001): Layer-Specific and MoirÃ©-Site-Dependent Phonon Excitations. Journal of Physical Chemistry Letters, 2021, 12, 6889-6894.	4.6	1
80	Probing the Conductance of Single Atoms and Molecules. Journal of Scanning Probe Microscopy, 2008, 3, 9-12.	0.0	1
81	Response to â€Comment on â€Electronic structure of C60 on Au(887)â€™ [J. Chem. Phys. 127, 067101 (2007)]â€. Journal of Chemical Physics, 2008, 128, 037101.	3.0	0