Nicolas NÃ©el

List of Publications by Year
in descending order

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81	1,860	257450	289244
papers	citations	24 h-index	40 g-index

82	82	82	1850
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quantifying Force and Energy in Single-Molecule Metalation. Journal of the American Chemical Society, 2022, , .	13.7	3
2	Atomic Force Extrema Induced by the Bending of a CO-Functionalized Probe. Nano Letters, 2021, 21, 2318-2323.	9.1	8
3	Electric-Field Control of a Single-Atom Polar Bond. Physical Review Letters, 2021, 126, 216801.	7.8	15
4	Second Floor of Flatland: Epitaxial Growth of Graphene on Hexagonal Boron Nitride. Small, 2021, 17, 2102747.	10.0	1
5	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
6	Scanning tunneling microscopy and spectroscopy of rubrene on clean and graphene-covered metal surfaces. Beilstein Journal of Nanotechnology, 2020, 11, 1157-1167.	2.8	4
7	Structural and local electronic properties of clean and Li-intercalated graphene on SiC(0001). Surface Science, 2020, 699, 121638.	1.9	10
8	Dissimilar Decoupling Behavior of Two-Dimensional Materials on Metal Surfaces. Journal of Physical Chemistry Letters, 2020, 11, 5204-5211.	4.6	7
9	Local Probes of Graphene Lattice Dynamics. Small Methods, 2020, 4, 1900817.	8.6	6
10	Manipulation of the two-site Kondo effect in linear CoCu_nCoCu_m clusters. Journal of Physics Condensed Matter, 2020, 32, 055303.	1.8	5
11	Single-Co Kondo effect in atomic Cu wires on Cu(111). Physical Review Research, 2020, 2, .	3.6	5
12	Probing relaxations of atomic-scale junctions in the Pauli repulsion range. New Journal of Physics, 2019, 21, 103041.	2.9	3
13	Nonequilibrium Bond Forces in Single-Molecule Junctions. Nano Letters, 2019, 19, 7845-7851.	9.1	9
14	Tailoring Intercalant Assemblies at the Grapheneâ€“Metal Interface. Langmuir, 2019, 35, 2554-2560.	3.5	2
15	Preparation of graphene bilayers on platinum by sequential chemical vapour deposition. Physical Chemistry Chemical Physics, 2019, 21, 3140-3144.	2.8	11
16	Probing site-dependent decoupling of hexagonal boron nitride with molecular frontier orbitals. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2019, 37, 061404.	2.1	7
17	Exciting vibrons in both frontier orbitals of a single hydrocarbon molecule on graphene. Journal of Physics Condensed Matter, 2019, 31, 065001.	1.8	8
18	Exploring the Organicâ€“Inorganic Interface With a Scanning Tunneling Microscope. , 2018, , 81-98.		3

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19	Scanning Tunneling Spectroscopies of Magnetic Atoms, Clusters, and Molecules. Nanoscience and Technology, 2018, , 25-53.	1.5	1
20	Moving atoms on surfaces: Impact of external parameters on required lateral force. Physical Review B, 2018, 98, .	3.2	3
21	Electron and Cooper-pair transport across a single magnetic molecule explored with a scanning tunneling microscope. Physical Review B, 2018, 97, .	3.2	23
22	Understanding and Engineering Phonon-Mediated Tunneling into Graphene on Metal Surfaces. Nano Letters, 2018, 18, 5697-5701.	9.1	22
23	Impact of Atomic-Scale Contact Geometry on Andreev Reflection. Physical Review Letters, 2017, 118, 107001.	7.8	7
24	Ordered Superstructures of a Molecular Electron Donor on Au(111). Langmuir, 2017, 33, 6978-6984.	3.5	9
25	Inelastic electron tunneling into graphene nanostructures on a metal surface. Physical Review B, 2017, 95, .	3.2	18
26	Line shapes in inelastic electron tunneling spectroscopy of single-molecule junctions. Physical Review B, 2017, 96, .	3.2	5
27	Open-boundary reflection of quantum well states at Pb(111). Physical Review B, 2017, 96, .	3.2	6
28	Template Effect of the Graphene MoirÃ© Lattice on Phthalocyanine Assembly. Molecules, 2017, 22, 731.	3.8	7
29	Asymmetry parameter of peaked Fano line shapes. Review of Scientific Instruments, 2016, 87, 103901.	1.3	7
30	Filling the Gap: Li-Intercalated Graphene on Ir(111). Journal of Physical Chemistry C, 2016, 120, 5067-5073.	3.1	26
31	Lateral Electron Confinement with Open Boundaries: Quantum Well States above Nanocavities at Pb(111). Physical Review Letters, 2016, 117, 136803.	7.8	14
32	Superstructures and Electronic Properties of Manganeseâ€“Phthalocyanine Molecules on Au(110) from Submonolayer Coverage to Ultrathin Molecular Films. Langmuir, 2016, 32, 6843-6850.	3.5	6
33	Plasticity of single-atom Pb junctions. Physical Review B, 2016, 93, .	3.2	15
34	Spectroscopic Line Shapes of Vibrational Quanta in the Presence of Molecular Resonances. Journal of Physical Chemistry Letters, 2016, 7, 2388-2393.	4.6	6
35	Ballistic Anisotropic Magnetoresistance of Single-Atom Contacts. Nano Letters, 2016, 16, 1450-1454.	9.1	10
36	Depopulation of Single-Phthalocyanine Molecular Orbitals upon Pyrrolic-Hydrogen Abstraction on Graphene. ACS Nano, 2016, 10, 2010-2016.	14.6	22

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37	Spectroscopy of transmission resonances through a C₆₀junction. Journal of Physics Condensed Matter, 2015, 27, 015001.	1.8	7
38	Kondo effect of single Co atoms on Au(110). Physical Review B, 2015, 91, .	3.2	12
39	Electronic and magnetic states of Mn2and Mn2H on Ag(111). New Journal of Physics, 2014, 16, 063021.	2.9	7
40	Phthalocyanine adsorption to graphene on Ir(111): Evidence for decoupling from vibrational spectroscopy. Journal of Chemical Physics, 2014, 141, 184308.	3.0	26
41	Atom-by-Atom Dehalogenation of a Porphyrin Molecule Adsorbed on Ag(111). Journal of Physical Chemistry C, 2014, 118, 30162-30169.	3.1	4
42	Tunneling Anisotropic Magnetoresistance at the Single-Atom Limit. Physical Review Letters, 2013, 110, 037202.	7.8	30
43	Energy-resolved spin-polarized tunneling and exchange coupling of Co and Cr atoms on Fe islands on W(110). Physical Review B, 2012, 85, .	3.2	10
44	Oxygen vibrations and acoustic surface plasmon on Be(0001). Physical Review B, 2012, 86, .	3.2	19
45	Tunneling magnetoresistance and exchange interaction in single-atom contacts. Physical Review B, 2012, 86, .	3.2	9
46	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
47	Voltage-dependent conductance states of a single-molecule junction. Journal of Physics Condensed Matter, 2012, 24, 394012.	1.8	2
48	Two-Level Conductance Fluctuations of a Single-Molecule Junction. Nano Letters, 2011, 11, 3593-3596.	9.1	39
49	Spin valve effect in single-atom contacts. New Journal of Physics, 2011, 13, 085011.	2.9	20
50	Two-Site Kondo Effect in Atomic Chains. Physical Review Letters, 2011, 107, 106804.	7.8	58
51	Kondo effect of a Co atom on Cu(111) in contact with an iron tip. Physical Review B, 2010, 82, .	3.2	32
52	Control of spin-polarized current in a scanning tunneling microscope by single-atom transfer. Applied Physics Letters, 2010, 96, 132505.	3.3	19
53	Controlled single atom and single molecule contacts. Physical Chemistry Chemical Physics, 2010, 12, 1022-1032.	2.8	43
54	Local heating at a ferromagnet-metal interface. Applied Physics Letters, 2009, 95, 203103.	3.3	8

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55	Local density of states from constant-current tunneling spectra. Physical Review B, 2009, 80, .	3.2	72
56	Spatial modulation of d states in a nanoscale Co island. Chemical Physics Letters, 2009, 484, 59-63.	2.6	11
57	Electron-Plasmon and Electron-Electron Interactions at a Single Atom Contact. Physical Review Letters, 2009, 102, 057401.	7.8	91
58	Quantized Conductance of a Single Magnetic Atom. Physical Review Letters, 2009, 102, 086805.	7.8	33
59	Single-atom contacts with a scanning tunnelling microscope. New Journal of Physics, 2009, 11, 125006.	2.9	37
60	Scanning Tunneling Microscopic Investigations into the Conductance of Single-Atom Junctions. Journal of Scanning Probe Microscopy, 2009, 4, 49-65.	0.0	2
61	Spatially resolved conductance of oriented C60. New Journal of Physics, 2008, 10, 065012.	2.9	60
62	Conductance of Oriented C₆₀ Molecules. Nano Letters, 2008, 8, 1291-1295.	9.1	57
63	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
64	Response to â€œComment 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
65	Spectroscopy of an atom between two electrodes. Physical Review B, 2008, 78, .	3.2	12
66	Rotation of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mtext>C</mml:mtext><mml:mrow><mml:mn>60</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>a single-molecule contact. Physical Review B, 2008, 77, .	3.2	27
67	Unoccupied states of individual silver clusters and chains on Ag(111). Physical Review B, 2008, 77, .	3.2	35
68	Controlling the Kondo Effect in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>CoCu</mml:mi><mml:mi>n</mml:mi></mml:msub></mml:math>Clusters Atom by Atom. Physical Review Letters, 2008, 101, 266803.	7.8	77
69	Probing the Conductance of Single Atoms and Molecules. Journal of Scanning Probe Microscopy, 2008, 3, 9-12.	0.0	1
70	Conductance of single atoms and molecules studied with a scanning tunnelling microscope. Nanotechnology, 2007, 18, 044027.	2.6	17
71	Conductance and Kondo Effect in a Controlled Single-Atom Contact. Physical Review Letters, 2007, 98, 016801.	7.8	161
72	Controlled Contact to aC60Molecule. Physical Review Letters, 2007, 98, 065502.	7.8	126

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73	Self-organization of cobalt-phthalocyanine on a vicinal gold surface revealed by scanning tunnelling microscopy. Surface Science, 2007, 601, 4180-4184.	1.9	54
74	Dynamics of surface-localised electronic excitations studied with the scanning tunnelling microscope. Progress in Surface Science, 2007, 82, 293-312.	8.3	22
75	Silver oligomer and single fullerene electronic properties revealed by a scanning tunnelling microscope. European Physical Journal D, 2007, 45, 465-469.	1.3	6
76	Fullerene nanowires on a vicinal gold surface. Applied Physics Letters, 2006, 88, 163101.	3.3	41
77	Highly Periodic Fullerene Nanomesh. Advanced Materials, 2006, 18, 174-177.	21.0	64
78	Molecules on vicinal Au surfaces studied by scanning tunnelling microscopy. Journal of Physics Condensed Matter, 2006, 18, S51-S66.	1.8	17
79	Electronic structure of C60 on Au(887). Journal of Chemical Physics, 2006, 125, 144719.	3.0	36
80	From Meandering to Faceting, Is Step Flow Growth Ever Stable?. Physical Review Letters, 2003, 91, 226103.	7.8	30
81	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