Markus Ternes

List of Publications by Year
in descending order

43	3,575	201674 27	265206 42
papers	citations	h-index	g-index

45	45	45	3079
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Large Magnetic Anisotropy of a Single Atomic Spin Embedded in a Surface Molecular Network. Science, 2007, 317, 1199-1203.	12.6	536
2	The Force Needed to Move an Atom on a Surface. Science, 2008, 319, 1066-1069.	12.6	415
3	The role of magnetic anisotropy in the Kondo effect. Nature Physics, 2008, 4, 847-850.	16.7	309
4	Controlling the state of quantum spins with electric currents. Nature Physics, 2010, 6, 340-344.	16.7	277
5	Spectroscopic manifestations of the Kondo effect on single adatoms. Journal of Physics Condensed Matter, 2009, 21, 053001.	1.8	221
6	Creation of an Atomic Superlattice by Immersing Metallic Adatoms in a Two-Dimensional Electron Sea. Physical Review Letters, 2004, 92, 016101.	7.8	202
7	Spin excitations and correlations in scanning tunneling spectroscopy. New Journal of Physics, 2015, 17, 063016.	2.9	152
8	The Quantum Magnetism of Individual Manganese-12-Acetate Molecular Magnets Anchored at Surfaces. Nano Letters, 2012, 12, 518-521.	9.1	146
9	Temperature and magnetic field dependence of a Kondo system in the weak coupling regime. Nature Communications, 2013, 4, 2110.	12.8	125
10	Interplay of Conductance, Force, and Structural Change in Metallic Point Contacts. Physical Review Letters, 2011, 106, 016802.	7.8	124
11	Spin Excitations of a Kondo-Screened Atom Coupled to a Second Magnetic Atom. Physical Review Letters, 2009, 103, 107203.	7.8	111
12	Quantum engineering of spin and anisotropy in magnetic molecular junctions. Nature Communications, 2015, 6, 8536.	12.8	68
13	Mass Spectrometry as a Preparative Tool for the Surface Science of Large Molecules. Annual Review of Analytical Chemistry, 2016, 9, 473-498.	5.4	67
14	Tailoring the chiral magnetic interaction between two individual atoms. Nature Communications, 2016, 7, 10620.	12.8	66
15	Atomic-scale spin sensing with a single molecule at the apex of a scanning tunneling microscope. Science, 2019, 366, 623-627.	12.6	60
16	Tracking Temperature-Dependent Relaxation Times of Ferritin Nanomagnets with a Wideband Quantum Spectrometer. Physical Review Letters, 2014, 113, 217204.	7.8	50
17	Exploring the phase diagram of the two-impurity Kondo problem. Nature Communications, 2015, 6, 10046.	12.8	50
18	Probing magnetic excitations and correlations in single and coupled spin systems with scanning tunneling spectroscopy. Progress in Surface Science, 2017, 92, 83-115.	8.3	47

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19	Diatomic Molecular Switches to Enable the Observation of Very-Low-Energy Vibrations. Physical Review Letters, 2007, 99, 126104.	7.8	45
20	Coverage-dependent self-organization: from individual adatoms to adatom superlattices. New Journal of Physics, 2004, 6, 16-16.	2.9	44
21	Spin Polarization of the Split Kondo State. Physical Review Letters, 2015, 114, 076601.	7.8	44
22	Subgap structure in asymmetric superconducting tunnel junctions. Physical Review B, 2006, 74, .	3.2	42
23	Melting of Two-Dimensional Adatom Superlattices Stabilized by Long-Range Electronic Interactions. Physical Review Letters, 2009, 102, 246102.	7.8	41
24	Scanning-Tunneling Spectroscopy of Surface-State Electrons Scattered by a Slightly Disordered Two-Dimensional Dilute â€œSolidâ€: Ce on Ag(111). Physical Review Letters, 2004, 93, 146805.	7.8	40
25	A molecular quantum spin network controlled by a single qubit. Science Advances, 2017, 3, e1701116.	10.3	40
26	Creation, electronic properties, disorder, and melting of two-dimensional surface-state-mediated adatom superlattices. Progress in Surface Science, 2010, 85, 1-27.	8.3	32
27	Free coherent evolution of a coupled atomic spin system initialized by electron scattering. Science, 2021, 372, 964-968.	12.6	32
28	Building Complex Kondo Impurities by Manipulating Entangled Spin Chains. Nano Letters, 2017, 17, 6203-6209.	9.1	23
29	A diamond-based scanning probe spin sensor operating at low temperature in ultra-high vacuum. Review of Scientific Instruments, 2014, 85, 013701.	1.3	22
30	Long Spin-Relaxation Times in a Transition-Metal Atom in Direct Contact to a Metal Substrate. Nano Letters, 2018, 18, 1978-1983.	9.1	22
31	Atomic structure of InAs and InGaAs quantum dots determined by cross-sectional scanning tunneling microscopy. Journal of Crystal Growth, 2003, 248, 322-327.	1.5	20
32	Correlation-driven transport asymmetries through coupled spins in a tunnel junction. Nature Communications, 2017, 8, 14119.	12.8	17
33	Structural and magnetic properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>FeMn</mml:mi><mml:mi>x</mml:mi></mml:msub></m xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mo>(</mml:mo><mml:mrow><mml:mi>x</mml:mi><mml:mo>=</mml:mo on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cu</mml:mi><mml:mn>2</mml:mn>. Physical Review B, 2016, 94, .	3.2	14
34	Resolving Ambiguity of the Kondo Temperature Determination in Mechanically Tunable Single-Molecule Kondo Systems. Journal of Physical Chemistry Letters, 2021, 12, 6320-6325.	4.6	14
35	Lateral and Vertical Stiffness of the Epitaxial h-BN Monolayer on Rh(111). Nano Letters, 2014, 14, 3623-3627.	9.1	13
36	Potential energyâ€“driven spin manipulation via a controllable hydrogen ligand. Science Advances, 2017, 3, e1602060.	10.3	13

#	Article	IF	Citations
37	Sensing the Spin of an Individual Ce Adatom. Physical Review Letters, 2020, 124, 167202.	7.8	11
38	Symmetry mediated tunable molecular magnetism on a 2D material. Communications Physics, 2021, 4, .	5.3	7
39	Comment on â€œFano Resonance for Anderson Impurity Systemsâ€• Physical Review Letters, 2006, 96, 019701; discussion 019702.	7.8	4
40	Strong paramagnon scattering in single atom Pd contacts. Physical Review B, 2017, 96, .	3.2	4
41	Segregation effects during GaAs overgrowth of InAs and InGaAs quantum dots studied by cross-sectional scanning tunneling microscopy. Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 1129-1132.	0.8	2
42	Local stiffness and work function variations of hexagonal boron nitride on Cu(111). Beilstein Journal of Nanotechnology, 2021, 12, 559-565.	2.8	2
43	Atomic Manipulation on Metal Surfaces. Nanoscience and Technology, 2009, , 191-215.	1.5	0