Roland Wiesendanger

List of Publications by Year
in descending order

640	30,111	5248	8138
papers	citations	83 h-index	148 g-index

674	674	674	15096
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Controlled growth of Gd-Pt surface alloys on Pt(111). Physical Review B, 2022, 105, .	1.1	1
2	Zero-field skyrmionic states and in-field edge-skyrmions induced by boundary tuning. Communications Physics, 2022, 5, .	2.0	7
3	Structural and superconducting properties of ultrathin Ir films on Nb(110). Physical Review Materials, 2022, 6, .	0.9	4
4	Precursors of Majorana modes and their length-dependent energy oscillations probed at both ends of atomic Shiba chains. Nature Nanotechnology, 2022, 17, 384-389.	15.6	44
5	Coexistence of antiferromagnetism and superconductivity in Mn/Nb(110). Physical Review B, 2022, 105, .	1.1	12
6	Complex magnetic ground states and topological electronic phases of atomic spin chains on superconductors. Physical Review B, 2022, 105, .	1.1	4
7	Topological Characterization of Dynamic Chiral Magnetic Textures Using Machine Learning. Physical Review Applied, 2022, 17, .	1.5	4
8	Nanoscale skyrmions on a square atomic lattice. Physical Review B, 2022, 105, .	1.1	3
9	Spin-Polarized Yu-Shiba-Rusinov States in an Iron-Based Superconductor. Physical Review Letters, 2021, 126, 076802.	2.9	43
10	Spin-orbit coupling induced splitting of Yu-Shiba-Rusinov states in antiferromagnetic dimers. Nature Communications, 2021, 12, 2040.	5.8	48
11	Anomalous Flexural Elasticities of Graphene Membranes Unveiled by Manipulating Topology. Physical Review Letters, 2021, 126, 146101.	2.9	3
12	Observation of Hydrogen-Induced Dzyaloshinskii-Moriya Interaction and Reversible Switching of Magnetic Chirality. Physical Review X, 2021, 11, .	2.8	34
13	Phonon-mediated tunneling into a two-dimensional electron gas on the Be(0001) surface. Physical Review B, 2021, 103, .	1.1	1
14	Topological Shiba bands in artificial spin chains on superconductors. Nature Physics, 2021, 17, 943-948.	6.5	65
15	Spin-spiral state of a Mn monolayer on W(110) studied by soft x-ray absorption spectroscopy at variable temperature. Physical Review B, 2021, 103, .	1.1	3
16	Discovery and characterization of a new type of domain wall in a row-wise antiferromagnet. Nature Communications, 2021, 12, 3488.	5.8	7
17	Precise measurement of the configurational energy of bent graphene membranes via three-dimensional force field spectroscopy. Physical Review B, 2021, 104, .	1.1	2
18	Correlation of Yuâ€“Shibaâ€“Rusinov States and Kondo Resonances in Artificial Spin Arrays on an s-Wave Superconductor. Nano Letters, 2021, 21, 6748-6755.	4.5	14

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19	Surface orbital order and chemical potential inhomogeneity of the iron-based superconductor FeTe0.55Se0.45 investigated with special STM tips. Physical Review Research, 2021, 3, .	1.3	3
20	Anisotropic non-split zero-energy vortex bound states in a conventional superconductor. Applied Physics Reviews, 2021, 8, .	5.5	12
21	Disorder-induced time effect in the antiferromagnetic domain state of Fe1+Te. Journal of Magnetism and Magnetic Materials, 2021, 540, 168426.	1.0	0
22	Atomic-scale spin-polarization maps using functionalized superconducting probes. Science Advances, 2021, 7, .	4.7	37
23	A cavity optomechanical locking scheme based on the optical spring effect. Review of Scientific Instruments, 2020, 91, 103102.	0.6	4
24	Large Dzyaloshinskii-Moriya interaction induced by chemisorbed oxygen on a ferromagnet surface. Science Advances, 2020, 6, eaba4924.	4.7	60
25	Controlling in-gap end states by linking nonmagnetic atoms and artificially-constructed spin chains on superconductors. Nature Communications, 2020, 11, 4707.	5.8	34
26	Long-range focusing of magnetic bound states in superconducting lanthanum. Nature Communications, 2020, 11, 4573.	5.8	19
27	Rotating edge-field driven processing of chiral spin textures in racetrack devices. Scientific Reports, 2020, 10, 20400.	1.6	6
28	Topological superconductivity induced by a triple- q magnetic structure. Physical Review B, 2020, 102, .	1.1	17
29	Tuning the Properties of Zero-Field Room Temperature Ferromagnetic Skyrmions by Interlayer Exchange Coupling. Nano Letters, 2020, 20, 4739-4747.	4.5	11
30	Discovery of Magnetic Single- and Triple- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="bold">q</mml:mi></mml:mrow></mml:math> States in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Mn</mml:mi><mml:mrow><mml:mo>/</mml:mo><mml:mi>Re</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>0001</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 277 Td (stretchy="false">)</m	2.9	35
31	Plumbene on a Magnetic Substrate: A Combined Scanning Tunneling Microscopy and Density Functional Theory Study. Physical Review Letters, 2020, 124, 126401.	2.9	26
32	Real-space imaging of atomic-scale spin textures at nanometer distances. Applied Physics Letters, 2020, 116, 122406.	1.5	5
33	Temperature and magnetic field dependent behavior of atomic-scale skyrmions in Pd/Fe/Ir(111) nanoislands. Physical Review B, 2020, 101, .	1.1	16
34	In Situ Synthesis of Metalâ€“Salophene Complexes on Intercalated Graphene. Journal of Physical Chemistry C, 2020, 124, 4279-4287.	1.5	4
35	Stacking-Dependent Spin Interactions in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Pd</mml:mi><mml:mo>/</mml:mo><mml:mi>Fe</mml:mi></mml:math> Bilayers on Re(0001). Physical Review Letters, 2020, 125, 227205.	2.9	9
36	Towards skyrmion-superconductor hybrid systems. Physical Review Materials, 2020, 4, .	0.9	14

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37	Spectroscopic signature of the Stark-shifted Tamm-type surface state of La(0001). New Journal of Physics, 2020, 22, 093013.	1.2	1
38	Isolated zero field sub-10â€‰nm skyrmions in ultrathin Co films. Nature Communications, 2019, 10, 3823.	5.8	84
39	Step-Edge-Induced Anisotropic Chiral Spin Coupling in Ultrathin Magnetic Films. Physical Review Letters, 2019, 123, 037201.	2.9	0
40	Atomic-scale interface engineering of Majorana edge modes in a 2D magnet-superconductor hybrid system. Science Advances, 2019, 5, eaav6600.	4.7	115
41	Probing Weakly Hybridized Magnetic Molecules by Single-Atom Magnetometry. Nano Letters, 2019, 19, 9013-9018.	4.5	9
42	Vacuum Resonance States as Atomic-Scale Probes of Noncollinear Surface Magnetism. Physical Review Letters, 2019, 123, 087202.	2.9	5
43	Magnetism and in-gap states of 3d transition metal atoms on superconducting Re. Npj Quantum Materials, 2019, 4, .	1.8	29
44	Nanoscience and Nanotechnology at the Centennial of UniversitÃt Hamburg. ACS Nano, 2019, 13, 1-3.	7.3	1
45	Stabilizing spin systems via symmetrically tailored RKKY interactions. Nature Communications, 2019, 10, 2565.	5.8	24
46	Stochastic dynamics and pattern formation of geometrically confined skyrmions. Communications Physics, 2019, 2, .	2.0	24
47	Nanoscale magnetic skyrmions and target states in confined geometries. Physical Review B, 2019, 99, .	1.1	44
48	Atomically resolved magnetic structure of a Gd-Au surface alloy. Physical Review B, 2019, 99, .	1.1	5
49	Magneto-Seebeck tunneling on the atomic scale. Science, 2019, 363, 1065-1067.	6.0	20
50	Tuning noncollinear magnetic states by hydrogenation. Physical Review B, 2019, 99, .	1.1	2
51	Electrical Detection of Domain Walls and Skyrmions in Co Films Using Noncollinear Magnetoresistance. Physical Review Letters, 2019, 123, 237205.	2.9	16
52	A radio-frequency spin-polarized scanning tunneling microscope. Review of Scientific Instruments, 2019, 90, 123705.	0.6	9
53	Atomically thin oxide layer on the elemental superconductor Ta(001) surface. Physical Review Materials, 2019, 3, .	0.9	2
54	Long Spin-Relaxation Times in a Transition-Metal Atom in Direct Contact to a Metal Substrate. Nano Letters, 2018, 18, 1978-1983.	4.5	22

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55	Electronic structure of Fe_{1.08}Te bulk crystals and epitaxial FeTe thin films on Bi₂Te₃. Journal of Physics Condensed Matter, 2018, 30, 065502.	0.7	7
56	Enhanced spin-ordering temperature in ultrathin FeTe films grown on a topological insulator. Physical Review B, 2018, 97, .	1.1	7
57	Inducing skyrmions in ultrathin Fe films by hydrogen exposure. Nature Communications, 2018, 9, 1571.	5.8	40
58	Domain imaging across the magneto-structural phase transitions in Fe1+yTe. Npj Quantum Materials, 2018, 3, .	1.8	8
59	Combined feedback and sympathetic cooling of a mechanical oscillator coupled to ultracold atoms. New Journal of Physics, 2018, 20, 093020.	1.2	21
60	Magnetic domain walls in strain-patterned ultrathin films. Physical Review B, 2018, 98, .	1.1	1
61	Magnetic Spectroscopy of Individual Atoms, Chains and Nanostructures. Nanoscience and Technology, 2018, , 3-24.	1.5	0
62	Non-collinear Magnetism Studied with Spin-Polarized Scanning Tunneling Microscopy. Nanoscience and Technology, 2018, , 163-182.	1.5	0
63	Localized spin waves in isolated <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>k</mml:mi><mml:mi>Ï€</mml:mi></mml:mrow></mml:m skyrmions. Physical Review B, 2018, 98, .	1.1	17
64	Magnetization Dynamics on the Atomic Scale. Nanoscience and Technology, 2018, , 221-248.	1.5	0
65	Pb-induced skyrmions in a double layer of Fe on Ir(111). Physical Review B, 2018, 98, .	1.1	3
66	Effective damping enhancement in noncollinear spin structures. Physical Review B, 2018, 98, .	1.1	10
67	Competition of Dzyaloshinskii-Moriya and Higher-Order Exchange Interactions in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Rh</mml:mi><mml:mo>/</mml:mo><mml:mi>Fe</mml:mi></mml:mrow></mml:math> Atomic Bilayers on Ir(111). Physical Review Letters, 2018, 120, 207201.	2.9	44
68	Domain walls and Dzyaloshinskii-Moriya interaction in epitaxial Co/Ir(111) and Pt/Co/Ir(111). Physical Review B, 2018, 97, .	1.1	26
69	Controlled creation and stability of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>k</mml:mi><mml:mi>Ï€</mml:mi></mml:mrow></mml:m skyrmions on a discrete lattice. Physical Review B, 2018, 97, .	1.1	34
70	Scanning Seebeck tunneling microscopy. Journal Physics D: Applied Physics, 2018, 51, 324001.	1.3	10
71	Atomic-Site-Specific Analysis on Out-of-Plane Elasticity of Convexly Curved Graphene and Its Relationship to

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. Crystals, 2018, 8, 102. | 1.0 | 4 |
| 72 | Non-collinear spin states in bottom-up fabricated atomic chains. Nature Communications, 2018, 9, 2853. | 5.8 | 38 |

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73	Toward tailoring Majorana bound states in artificially constructed magnetic atom chains on elemental superconductors. Science Advances, 2018, 4, eaar5251.	4.7	233
74	Engineering the spin couplings in atomically crafted spin chains on an elemental superconductor. Nature Communications, 2018, 9, 3253.	5.8	42
75	Interfacial superconductivity in a bi-collinear antiferromagnetically ordered FeTe monolayer on a topological insulator. Nature Communications, 2017, 8, 14074.	5.8	53
76	Reorientation of the diagonal double-stripe spin structure at Fe1+yTe bulk and thin-film surfaces. Nature Communications, 2017, 8, 13939.	5.8	24
77	Perturbative calculations of quantum spin tunneling in effective spin systems with a transversal magnetic field and transversal anisotropy. New Journal of Physics, 2017, 19, 013032.	1.2	5
78	A millikelvin all-fiber cavity optomechanical apparatus for merging with ultra-cold atoms in a hybrid quantum system. Review of Scientific Instruments, 2017, 88, 023115.	0.6	14
79	Attractive force-driven superhardening of graphene membranes as a pin-point breaking of continuum mechanics. Scientific Reports, 2017, 7, 46083.	1.6	6
80	Impact of the skyrmion spin texture on magnetoresistance. Physical Review B, 2017, 95, .	1.1	45
81	Spatial variation of the two-fold anisotropic superconducting gap in a monolayer of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>FeS</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub><mml:mi mathvariant="normal">T</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> on a topological insulator. Physical Review B, 2017, 95, .	1.1	10
82	Characterizing tips suitable for atomic force microscopy and spectroscopy with atomic resolution and spin sensitivity. Applied Physics Letters, 2017, 110, .	1.5	2
83	Exploring the Relation Between Intramolecular Conjugation and Band Dispersion in One-Dimensional Polymers. Journal of Physical Chemistry C, 2017, 121, 27118-27125.	1.5	29
84	A gateway towards non-collinear spin processing using three-atom magnets with strong substrate coupling. Nature Communications, 2017, 8, 642.	5.8	25
85	Temperature-Induced Increase of Spin Spiral Periods. Physical Review Letters, 2017, 119, 037202.	2.9	9
86	Probing the Nano-Skyrmion Lattice on Fe/Ir(111) with Magnetic Exchange Force Microscopy. Physical Review Letters, 2017, 119, 047205.	2.9	32
87	On-Surface Oligomerization of Self-Terminating Molecular Chains for the Design of Spintronic Devices. ACS Nano, 2017, 11, 9200-9206.	7.3	20
88	Spin-Resolved Spectroscopy of the Yu-Shiba-Rusinov States of Individual Atoms. Physical Review Letters, 2017, 119, 197002.	2.9	62
89	Electric-field-driven switching of individual magnetic skyrmions. Nature Nanotechnology, 2017, 12, 123-126.	15.6	297
90	Structural and electronic properties of ultrathin FeSe films grown on Bi₂Se₃(0â€‰0â€‰0â€‰1) studied by STM/STS. Journal of Physics Condensed Matter, 2017, 29, 025004.	2.2	10

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91	Reply to Comment on Perturbative calculations of quantum spin tunneling in effective spin systems with a transversal magnetic field and transversal anisotropy. New Journal of Physics, 2017, 19, 078001.	1.2	1
92	Tailoring noncollinear magnetism by misfit dislocation lines. Physical Review B, 2016, 94, .	1.1	7
93	Minimal radius of magnetic skyrmions: statics and dynamics. New Journal of Physics, 2016, 18, 045021.	1.2	62
94	Quantum technology: from research to application. Applied Physics B: Lasers and Optics, 2016, 122, 1.	1.1	42
95	Skyrmionics gets hot. Nature Materials, 2016, 15, 493-494.	13.3	64
96	Pattern formation in skyrmionic materials with anisotropic environments. Physical Review B, 2016, 94, .	1.1	21
97	STM study of the preparation of clean Ta(110) and the subsequent growth of two-dimensional Fe islands. Surface Science, 2016, 653, 113-117.	0.8	2
98	Coupling of Coexisting Noncollinear Spin States in the Fe Monolayer on Re(0001). Nano Letters, 2016, 16, 6252-6256.	4.5	12
99	High-frequency magnetization dynamics of individual atomic-scale magnets. Physical Review B, 2016, 93, .	1.1	8
100	Structural and magnetic properties of Ni/Fe nanostructures on Ir(111). Physical Review B, 2016, 93, .	1.1	11
101	Band-gap engineering by Bi intercalation of graphene on Ir(111). Physical Review B, 2016, 93, .	1.1	30
102	Guiding Spin Spirals by Local Uniaxial Strain Relief. Physical Review Letters, 2016, 116, 017201.	2.9	35
103	Spin-sensitive shape asymmetry of adatoms on noncollinear magnetic substrates. Physical Review B, 2016, 93, .	1.1	8
104	Nickel: The time-reversal symmetry conserving partner of iron on a chalcogenide topological insulator. Physical Review B, 2016, 94, .	1.1	11
105	Tailoring the chiral magnetic interaction between two individual atoms. Nature Communications, 2016, 7, 10620.	5.8	66
106	Skyrmions at the Edge: Confinement Effects in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Fe</mml:mi><mml:mo>/</mml:mo><mml:mi>Ir</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>111</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 127 Td (stretchy="false">)</mml:mo></mml:mrow></mml:math>	2.9	23
107	The properties of isolated chiral skyrmions in thin magnetic films. New Journal of Physics, 2016, 18, 065003.	1.2	260
108	Nanoscale magnetic skyrmions in metallic films and multilayers: a new twist for spintronics. Nature Reviews Materials, 2016, 1, .	23.3	488

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109	Symmetry breaking in spin spirals and skyrmions by in-plane and canted magnetic fields. New Journal of Physics, 2016, 18, 075007.	1.2	16
110	Pinning and movement of individual nanoscale magnetic skyrmions via defects. New Journal of Physics, 2016, 18, 055009.	1.2	94
111	Set-up of a high-resolution 300 mK atomic force microscope in an ultra-high vacuum compatible 3He/10 T cryostat. Review of Scientific Instruments, 2016, 87, 073702.	0.6	4
112	Quantum revivals and magnetization tunneling in effective spin systems. New Journal of Physics, 2016, 18, 033029.	1.2	7
113	Absence of a spin-signature from a single Ho adatom as probed by spin-sensitive tunneling. Nature Communications, 2016, 7, 10454.	5.8	49
114	Toward Tailored All-Spin Molecular Devices. Nano Letters, 2016, 16, 577-582.	4.5	40
115	Tunneling into thin superconducting films: Interface-induced quasiparticle lifetime reduction. Surface Science, 2016, 643, 6-9.	0.8	5
116	Atomic-Scale Spintronics. , 2016, , 757-784.		0
117	Investigating the differences between Co adatoms states on surfaces of selected bismuth chalcogenides. Physical Review B, 2015, 92, .	1.1	5
118	Revealing Subsurface Vibrational Modes by Atomic-Resolution Damping Force Spectroscopy. Nanoscience and Technology, 2015, , 127-145.	1.5	0
119	Bounds on expectation values of quantum subsystems and perturbation theory. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 075301.	0.7	5
120	Response of the topological surface state to surface disorder in TlBiSe₂. New Journal of Physics, 2015, 17, 023067.	1.2	24
121	Giant magnetization canting due to symmetry breaking in zigzag Co chains on Ir(001). New Journal of Physics, 2015, 17, 023014.	1.2	19
122	Field-Dependent Size and Shape of Single Magnetic Skyrmions. Physical Review Letters, 2015, 114, 177203.	2.9	423
123	Influence of the Local Atom Configuration on a Hexagonal Skyrmion Lattice. Nano Letters, 2015, 15, 3280-3285.	4.5	36
124	Magnetic Nano-skyrmion Lattice Observed in a Si-Wafer-Based Multilayer System. ACS Nano, 2015, 9, 5908-5912.	7.3	18
125	Multi-layer and multi-component intercalation at the graphene/Ir(111) interface. Surface Science, 2015, 639, 70-74.	0.8	12
126	Electrical detection of magnetic skyrmions by tunnelling non-collinear magnetoresistance. Nature Nanotechnology, 2015, 10, 1039-1042.	15.6	179

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127	Temperature and non-linear response of cantilever-type mechanical oscillators used in atomic force microscopes with interferometric detection. Applied Physics Letters, 2015, 106, .	1.5	5
128	Stability of single skyrmionic bits. Nature Communications, 2015, 6, 8455.	5.8	130
129	Tuning emergent magnetism in a Hund's impurity. Nature Nanotechnology, 2015, 10, 958-964.	15.6	62
130	Miniaturized high-precision piezo driven two axes stepper goniometer. Review of Scientific Instruments, 2014, 85, 045006.	0.6	2
131	Detecting the dipole moment of a single carbon monoxide molecule. Applied Physics Letters, 2014, 105, .	1.5	30
132	Scanning tunneling microscopy study of Fe, Co and Cr growth on Re(0001). Surface Science, 2014, 630, 280-285.	0.8	20
133	Spin-resolved imaging and spectroscopy of individual molecules with sub-molecular spatial resolution. MRS Bulletin, 2014, 39, 608-613.	1.7	6
134	Screening and atomic-scale engineering of the potential at a topological insulator surface. Physical Review B, 2014, 89, .	1.1	13
135	Electric-Field-Induced Magnetic Anisotropy in a Nanomagnet Investigated on the Atomic Scale. Physical Review Letters, 2014, 112, 017204.	2.9	41
136	Parity Effects in 120Â° Spin Spirals. Physical Review Letters, 2014, 112, 047204.	2.9	12
137	Long-range magnetic coupling between nanoscale organicâ€“metal hybrids mediated by a nanoskyrmion lattice. Nature Nanotechnology, 2014, 9, 1018-1023.	15.6	44
138	Superconductivity of lanthanum revisited: enhanced critical temperature in the clean limit. Journal of Physics Condensed Matter, 2014, 26, 425703.	0.7	17
139	Using Metallic Noncontact Atomic Force Microscope Tips for Imaging Insulators and Polar Molecules: Tip Characterization and Imaging Mechanisms. ACS Nano, 2014, 8, 5339-5351.	7.3	36
140	Enhanced Atomic-Scale Spin Contrast due to Spin Friction. Physical Review Letters, 2014, 112, 076102.	2.9	19
141	Computing with spins and magnets. MRS Bulletin, 2014, 39, 696-702.	1.7	33
142	Thermal Stability of an Interface-Stabilized Skyrmion Lattice. Physical Review Letters, 2014, 113, 077202.	2.9	45
143	Intra- and interband electron scattering in a hybrid topological insulator: Bismuth bilayer on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2014, 90, .	1.1	26
144	Local tunnel magnetoresistance of an iron intercalated graphene-based heterostructure. Journal of Physics Condensed Matter, 2014, 26, 394004.	0.7	18

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145	Interface-induced chiral domain walls, spin spirals and skyrmions revealed by spin-polarized scanning tunneling microscopy. Journal of Physics Condensed Matter, 2014, 26, 394002.	0.7	77
146	Strong out-of-plane magnetic anisotropy of Fe adatoms on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:m Physical Review B, 2014, 89, .	1.1	32
147	Formation and structural analysis of twisted bilayer graphene on Ni(111) thin films. Surface Science, 2014, 625, 44-49.	0.8	18
148	Modification of Electrical Properties of Graphene by Substrate-Induced Nanomodulation. Nano Letters, 2013, 13, 3494-3500.	4.5	94
149	Non-equilibrium finite temperature dynamics of magnetic quantum systems: applications to spin-polarized scanning tunneling microscopy. New Journal of Physics, 2013, 15, 013009.	1.2	7
150	Tailoring Molecular Self-Assembly of Magnetic Phthalocyanine Molecules on Fe- and Co-Intercalated Graphene. ACS Nano, 2013, 7, 11341-11349.	7.3	52
151	Determining Adsorption Geometry, Bonding, and Translational Pathways of a Metalâ€“Organic Complex on an Oxide Surface: Co-Salen on NiO(001). Journal of Physical Chemistry C, 2013, 117, 1105-1112.	1.5	18
152	Writing and Deleting Single Magnetic Skyrmions. Science, 2013, 341, 636-639.	6.0	1,217
153	Atomic-Scale Spintronics. , 2013, , 1-24.		0
154	Current-Driven Spin Dynamics of Artificially Constructed Quantum Magnets. Science, 2013, 339, 55-59.	6.0	197
155	Atomic-scale magnetism of cobalt-intercalated graphene. Physical Review B, 2013, 87, .	1.1	138
156	Controllable Magnetic Doping of the Surface State of a Topological Insulator. Physical Review Letters, 2013, 110, 126804.	2.9	98
157	Adatoms and Clusters of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>3</mml:mn><mml:mi>d</mml:mi></mml:math>Transition Metals on Graphene: Electronic and Magnetic Configurations. Physical Review Letters, 2013, 110, 136804.	2.9	159
158	Influence of the degree of decoupling of graphene on the properties of transition metal adatoms. Physical Review B, 2013, 87, .	1.1	41
159	A theoretical study of the dynamical switching of a single spin by exchange forces. New Journal of Physics, 2013, 15, 013011.	1.2	15
160	Co atoms on Bi₂Se₃revealing a coverage dependent spin reorientation transition. New Journal of Physics, 2013, 15, 113026.	1.2	18
161	Spin Excitations of Individual Fe Atoms on Pt(111): Impact of the Site-Dependent Giant Substrate Polarization. Physical Review Letters, 2013, 111, 157204.	2.9	87
162	Collective magnetism in arrays of spinor Boseâ€“Einstein condensates. New Journal of Physics, 2013, 15, 063033.	1.2	2

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163	Spin-resolved characterization of single cobalt phthalocyanine molecules on a ferromagnetic support. Physical Review B, 2012, 86, .	1.1	23
164	Spin-Resolved Splitting of Kondo Resonances in the Presence of RKKY-Type Coupling. Physical Review Letters, 2012, 108, 087203.	2.9	38
165	Magnetic coupling of single Co adatoms to a Co underlayer through a Pd spacer of variable thickness. Physical Review B, 2012, 86, .	1.1	7
166	Conical Spin-Spiral State in an Ultrathin Film Driven by Higher-Order Spin Interactions. Physical Review Letters, 2012, 108, 087205.	2.9	64
167	Role of hybridization in the Rashba splitting of noble metal monolayers on W(110). Physical Review B, 2012, 86, .	1.1	11
168	Molecular Kondo Chain. Nano Letters, 2012, 12, 3174-3179.	4.5	101
169	Magnetization switching utilizing the magnetic exchange interaction. Physical Review B, 2012, 86, .	1.1	15
170	Tunneling anisotropic magnetoresistance on the atomic scale. Physical Review B, 2012, 86, .	1.1	39
171	Micromagnetic description of the spin spiral in Fe double-layer stripes on W(110). Physical Review B, 2012, 85, .	1.1	8
172	Robust Nodal Structure of Landau Level Wave Functions Revealed by Fourier Transform Scanning Tunneling Spectroscopy. Physical Review Letters, 2012, 109, 116805.	2.9	27
173	Manipulation of domain walls using a spin-polarized STM. Europhysics Letters, 2012, 97, 17009.	0.7	8
174	Atomic-scale magnetic dissipation from spin-dependent adhesion hysteresis. Physical Review B, 2012, 85, .	1.1	8
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