Roland Wiesendanger

List of Publications by Citations

625 papers	25,031 citations	78 h-index	138 g-index
672 ext. papers	27,946 ext. citations	5.5 avg, IF	7.11 L-index

#	Paper	IF	Citations
625	Spontaneous atomic-scale magnetic skyrmion lattice in two dimensions. *Nature Physics*, **2011**, 7, 713-718	16.2	1169
624	Writing and deleting single magnetic skyrmions. *Science*, **2013**, 341, 636-9	33.3	973
623	Scanning Probe Microscopy and Spectroscopy: Methods and Applications **1994**,		746
622	Direct observation of internal spin structure of magnetic vortex cores. *Science*, **2002**, 298, 577-80	33.3	729
621	Chiral magnetic order at surfaces driven by inversion asymmetry. *Nature*, **2007**, 447, 190-3	50.4	688
620	Spin mapping at the nanoscale and atomic scale. *Reviews of Modern Physics*, **2009**, 81, 1495-1550	40.5	502
619	Observation of vacuum tunneling of spin-polarized electrons with the scanning tunneling microscope. *Physical Review Letters*, **1990**, 65, 247-250	7.4	450
618	Nanoscale magnetic skyrmions in metallic films and multilayers: a new twist for spintronics. *Nature Reviews Materials*, **2016**, 1,	73.3	342
617	Field-dependent size and shape of single magnetic Skyrmions. *Physical Review Letters*, **2015**, 114, 177203	7.4	334
616	Realizing all-spin-based logic operations atom by atom. *Science*, **2011**, 332, 1062-4	33.3	302
615	Observation of magnetic forces by the atomic force microscope. *Journal of Applied Physics*, **1987**, 62, 4293-4295	2.5	302
614	Real-space imaging of two-dimensional antiferromagnetism on the atomic scale. *Science*, **2000**, 288, 1805-8	33.3	300
613	Revealing magnetic interactions from single-atom magnetization curves. *Science*, **2008**, 320, 82-6	33.3	287
612	Design of the local spin polarization at the organic-ferromagnetic interface. *Physical Review Letters*, **2010**, 105, 066601	7.4	261
611	Quantitative analysis of the frictional properties of solid materials at low loads. I. Carbon compounds. *Physical Review B*, **1997**, 56, 6987-6996	3.3	247
610	Spin- and energy-dependent tunneling through a single molecule with intramolecular spatial resolution. *Physical Review Letters*, **2010**, 105, 047204	7.4	240
609	Electric-field-driven switching of individual magnetic skyrmions. *Nature Nanotechnology*, **2017**, 12, 123-126	38.7	212

608	Spin-Polarized Vacuum Tunneling into the Exchange-Split Surface State of Gd(0001). *Physical Review Letters*, **1998**, 81, 4256-4259	7.4	204
607	Magnetic exchange force microscopy with atomic resolution. *Nature*, **2007**, 446, 522-5	50.4	199
606	Spin-polarized scanning tunneling microscopy with antiferromagnetic probe tips. *Physical Review Letters*, **2002**, 88, 057201	7.4	198
605	The properties of isolated chiral skyrmions in thin magnetic films. *New Journal of Physics*, **2016**, 18, 065003	3.3	195
604	Strength and directionality of surface Ruderman-Kittel-Kasuya-Yosida interaction mapped on the atomic scale. *Nature Physics*, **2010**, 6, 187-191	16.2	194
603	Atomic-scale spin spiral with a unique rotational sense: Mn monolayer on W(001). *Physical Review Letters*, **2008**, 101, 027201	7.4	193
602	Local electronic signatures of impurity states in graphene. *Physical Review B*, **2007**, 75,	3.3	192
601	Current-driven spin dynamics of artificially constructed quantum magnets. *Science*, **2013**, 339, 55-9	33.3	181
600	Atom-by-atom engineering and magnetometry of tailored nanomagnets. *Nature Physics*, **2012**, 8, 497-503	16.2	177
599	Atom-specific spin mapping and buried topological states in a homologous series of topological insulators. *Nature Communications*, **2012**, 3, 635	17.4	168
598	Topographic and magnetic-sensitive scanning tunneling microscope study of magnetite. *Science*, **1992**, 255, 583-6	33.3	166
597	Real-space observation of dipolar antiferromagnetism in magnetic nanowires by spin-polarized scanning tunneling spectroscopy. *Physical Review Letters*, **2000**, 84, 5212-5	7.4	162
596	Electrical detection of magnetic skyrmions by tunnelling non-collinear magnetoresistance. *Nature Nanotechnology*, **2015**, 10, 1039-42	28.7	145
595	Adatoms and clusters of 3d transition metals on graphene: electronic and magnetic configurations. *Physical Review Letters*, **2013**, 110, 136804	7.4	143
594	Measurement of three-dimensional force fields with atomic resolution using dynamic force spectroscopy. *Applied Physics Letters*, **2002**, 81, 4428-4430	3.4	143
593	Current-induced magnetization switching with a spin-polarized scanning tunneling microscope. *Science*, **2007**, 317, 1537-40	33.3	138
592	Spin-polarized scanning tunneling spectroscopy of nanoscale cobalt islands on Cu(111). *Physical Review Letters*, **2004**, 92, 057202	7.4	138
591	Atomic-scale magnetic domain walls in quasi-one-dimensional Fe nanostripes. *Physical Review Letters*, **2001**, 87, 127201	7.4	137

590	Toward tailoring Majorana bound states in artificially constructed magnetic atom chains on elemental superconductors. *Science Advances*, **2018**, 4, eaar5251	14.3	134
589	In-plane magnetic anisotropy of Fe atoms on Bi2Se3(111). *Physical Review Letters*, **2012**, 108, 256811	7.4	133
588	Quantitative analysis of lateral force microscopy experiments. *Review of Scientific Instruments*, **1996**, 67, 2560-2567	1.7	129
587	Atomic-scale magnetism of cobalt-intercalated graphene. *Physical Review B*, **2013**, 87,	3.3	127
586	Information transfer by vector spin chirality in finite magnetic chains. *Physical Review Letters*, **2012**, 108, 197204	7.4	125
585	Real-space observation of spin-split molecular orbitals of adsorbed single-molecule magnets. *Nature Communications*, **2012**, 3, 953	17.4	122
584	Itinerant nature of atom-magnetization excitation by tunneling electrons. *Physical Review Letters*, **2011**, 106, 037205	7.4	122
583	Determination of Tip-Sample Interaction Potentials by Dynamic Force Spectroscopy. *Physical Review Letters*, **1999**, 83, 4780-4783	7.4	122
582	Calculation of the frequency shift in dynamic force microscopy. *Applied Surface Science*, **1999**, 140, 344-351	6.7	122
581	Real-space observation of a right-rotating inhomogeneous cycloidal spin spiral by spin-polarized scanning tunneling microscopy in a triple axes vector magnet. *Physical Review Letters*, **2009**, 103, 157201	7.4	121
580	Revealing antiferromagnetic order of the Fe monolayer on W(001): spin-polarized scanning tunneling microscopy and first-principles calculations. *Physical Review Letters*, **2005**, 94, 087204	7.4	119
579	Measurement of conservative and dissipative tip-sample interaction forces with a dynamic force microscope using the frequency modulation technique. *Physical Review B*, **2001**, 64,	3.3	116
578	Atomic spin structure of antiferromagnetic domain walls. *Nature Materials*, **2006**, 5, 477-81	27	115
577	Quantum Hall transition in real space: from localized to extended states. *Physical Review Letters*, **2008**, 101, 256802	7.4	114
576	Imaging and manipulating the spin direction of individual atoms. *Nature Nanotechnology*, **2010**, 5, 350-3	28.7	113
575	Wave-function mapping of InAs quantum dots by scanning tunneling spectroscopy. *Physical Review Letters*, **2003**, 91, 196804	7.4	113
574	Atomic surface structure of Fe3O4(001) in different preparation stages studied by scanning tunneling microscopy. *Surface Science*, **1993**, 285, 1-14	1.8	113
573	Observation of magnetic hysteresis at the nanometer scale by spin-polarized scanning tunneling spectroscopy. *Science*, **2001**, 292, 2053-6	33.3	110

572	Consequences of the stick-slip movement for the scanning force microscopy imaging of graphite. *Physical Review B*, **1998**, 57, 2477-2481	3.3	109
571	Magnetization-direction-dependent local electronic structure probed by scanning tunneling spectroscopy. *Physical Review Letters*, **2002**, 89, 237205	7.4	109
570	Topology-induced spin frustrations at the Cr(001) surface studied by spin-polarized scanning tunneling spectroscopy. *Physical Review Letters*, **2000**, 85, 4606-9	7.4	109
569	Tip-induced band bending by scanning tunneling spectroscopy of the states of the tip-induced quantum dot on InAs(110). *Physical Review B*, **1999**, 59, 8043-8048	3.3	106
568	A scanning force microscope with atomic resolution in ultrahigh vacuum and at low temperatures. *Review of Scientific Instruments*, **1998**, 69, 221-225	1.7	101
567	Stability of single skyrmionic bits. *Nature Communications*, **2015**, 6, 8455	17.4	100
566	A low-temperature ultrahigh-vacuum scanning tunneling microscope with rotatable magnetic field. *Review of Scientific Instruments*, **1997**, 68, 3806-3810	1.7	94
565	A 300 mK ultra-high vacuum scanning tunneling microscope for spin-resolved spectroscopy at high energy resolution. *Review of Scientific Instruments*, **2004**, 75, 4871-4879	1.7	92
564	Controllable magnetic doping of the surface state of a topological insulator. *Physical Review Letters* , **2013**, 110, 126804	7.4	90
563	The velocity dependence of frictional forces in point-contact friction. *Applied Physics A: Materials Science and Processing*, **1998**, 66, S263-S267	2.6	90
562	Detecting excitation and magnetization of individual dopants in a semiconductor. *Nature*, **2010**, 467, 1084-7	50.4	89
561	Noncontact Atomic Force Microscopy. *Nanoscience and Technology*, **2009**,	0.6	89
560	Shape-dependent thermal switching behavior of superparamagnetic nanoislands. *Physical Review Letters*, **2004**, 92, 067201	7.4	88
559	Low-load friction behavior of epitaxial C60 monolayers under Hertzian contact. *Physical Review B*, **1995**, 52, 14976-14984	3.3	88
558	Quantitative analysis of dynamic-force-spectroscopy data on graphite(0001) in the contact and noncontact regimes. *Physical Review B*, **2000**, 61, 12678-12681	3.3	86
557	Observation of a complex nanoscale magnetic structure in a hexagonal Fe monolayer. *Physical Review Letters*, **2006**, 96, 167203	7.4	85
556	Molecular Kondo chain. *Nano Letters*, **2012**, 12, 3174-9	11.5	83
555	Symmetry reduction of metal phthalocyanines on metals. *Physical Review B*, **2008**, 78,	3.3	82

554	Magnetic sensitive force microscopy. *Nano Today*, **2008**, 3, 28-39	17.9	82
553	Spin-resolved electronic structure of nanoscale cobalt islands on Cu(111). *Physical Review Letters*, **2006**, 96, 237203	7.4	82
552	Spin excitations of individual Fe atoms on Pt(111): impact of the site-dependent giant substrate polarization. *Physical Review Letters*, **2013**, 111, 157204	7.4	81
551	Magnetization reversal of nanoscale islands: how size and shape affect the arrhenius prefactor. *Physical Review Letters*, **2009**, 103, 127202	7.4	81
550	Interpretation of true atomic resolution images of graphite (0001) in noncontact atomic force microscopy. *Physical Review B*, **2000**, 62, 6967-6970	3.3	78
549	A low-temperature ultrahigh vacuum scanning tunneling microscope with a split-coil magnet and a rotary motion stepper motor for high spatial resolution studies of surface magnetism. *Review of Scientific Instruments*, **2000**, 71, 424-430	1.7	78
548	Scattering States of Ionized Dopants Probed by Low Temperature Scanning Tunneling Spectroscopy. *Physical Review Letters*, **1998**, 81, 5616-5619	7.4	78
547	Scanning tunneling microscope study of iron(II) phthalocyanine growth on metals and insulating surfaces. *Surface Science*, **2008**, 602, 677-683	1.8	76
546	Dead but highly dynamic--the stratum corneum is divided into three hydration zones. *Skin Pharmacology and Physiology*, **2004**, 17, 246-57	3	76
545	Spin-polarized scanning tunneling microscopy study of 360° walls in an external magnetic field. *Physical Review B*, **2003**, 67,	3.3	75
544	Magnetization switching of submicrometer Co dots induced by a magnetic force microscope tip. *Physical Review B*, **1998**, 58, 5563-5567	3.3	75
543	Atomic-resolution dynamic force microscopy and spectroscopy of a single-walled carbon nanotube: characterization of interatomic van der Waals forces. *Physical Review Letters*, **2004**, 93, 136101	7.4	74
542	Modification of electrical properties of graphene by substrate-induced nanomodulation. *Nano Letters*, **2013**, 13, 3494-500	11.5	73
541	Dynamics of molecular self-ordering in tetraphenyl porphyrin monolayers on metallic substrates. *Nanotechnology*, **2009**, 20, 275602	3.4	72
540	Nanometer scale structure fabrication with the scanning tunneling microscope. *Applied Physics Letters*, **1987**, 51, 244-246	3.4	71
539	Modelling of the scan process in lateral force microscopy. *Surface Science*, **1997**, 375, 395-402	1.8	70
538	STM study of carbon-induced reconstructions on W(110): strong evidence for a surface lattice deformation. *Surface Science*, **1995**, 344, 185-191	1.8	68
537	Anisotropy of sliding friction on the triglycine sulfate (010) surface. *Applied Physics A: Materials Science and Processing*, **1995**, 61, 525-533	2.6	68

536	Atomic-scale interface engineering of Majorana edge modes in a 2D magnet-superconductor hybrid system. *Science Advances*, **2019**, 5, eaav6600	14.3	67
535	Pinning and movement of individual nanoscale magnetic skyrmions via defects. *New Journal of Physics*, **2016**, 18, 055009	2.9	66
534	Direct comparison between potential landscape and local density of states in a disordered two-dimensional electron system. *Physical Review Letters*, **2002**, 89, 136806	7.4	66
533	Real-space observation of drift States in a two-dimensional electron system at high magnetic fields. *Physical Review Letters*, **2003**, 90, 056804	7.4	65
532	Domain wall orientation in magnetic nanowires. *Physical Review Letters*, **2004**, 92, 077207	7.4	64
531	Dynamic scanning force microscopy at low temperatures on a van der Waals surface: graphite (0001). *Applied Surface Science*, **1999**, 140, 247-252	6.7	64
530	Reversible chiral switching of bis(phthalocyaninato) terbium(III) on a metal surface. *Nano Letters*, **2012**, 12, 3931-5	11.5	63
529	Prediction of bias-voltage-dependent corrugation reversal for STM images of bcc (110) surfaces: W(110), Ta(110), and Fe(110). *Physical Review B*, **1998**, 58, 16432-16445	3.3	63
528	Local electronic structure near Mn acceptors in InAs: surface-induced symmetry breaking and coupling to host states. *Physical Review Letters*, **2007**, 99, 157202	7.4	62
527	Dynamic-mode scanning force microscopy study of n-InAs(110)-(1$\bar{1}$) at low temperatures. *Physical Review B*, **2000**, 61, 2837-2845	3.3	62
526	Interface-induced chiral domain walls, spin spirals and skyrmions revealed by spin-polarized scanning tunneling microscopy. *Journal of Physics Condensed Matter*, **2014**, 26, 394002	1.8	61
525	Simulation of a scanned tip on a NaF(001) surface in friction force microscopy. *Europhysics Letters*, **1996**, 36, 19-24	1.6	58
524	Assessing the performance of two-dimensional dopant profiling techniques. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **2004**, 22, 385		58
523	Visualization of the Barkhausen effect by magnetic force microscopy. *Physical Review Letters*, **2004**, 92, 077206	7.4	58
522	Simultaneous imaging of the In and As sublattice on InAs(110)-(1$\bar{1}$) with dynamic scanning force microscopy. *Applied Surface Science*, **1999**, 140, 293-297	6.7	58
521	Tailoring the chiral magnetic interaction between two individual atoms. *Nature Communications*, **2016**, 7, 10620	17.4	56
520	Atomically resolved mechanical response of individual metallofullerene molecules confined inside carbon nanotubes. *Nature Nanotechnology*, **2008**, 3, 337-41	28.7	56
519	On the preparation and electronic properties of clean W(110) surfaces. *Surface Science*, **2007**, 601, 3308-3314	1.8	56

518	Chiral magnetic ordering in two-dimensional ferromagnets with competing Dzyaloshinsky-Moriya interactions. *Physical Review B*, **2007**, 75,	3.3	56
517	Robust surface doping of Bi2Se3 by rubidium intercalation. *ACS Nano*, **2012**, 6, 7009-15	16.7	54
516	Determination of site specific interatomic forces between an iron coated tip and the NiO(0 0 1) surface by force field spectroscopy. *Surface Science*, **2003**, 527, 12-20	1.8	54
515	Chemical resolution at ionic crystal surfaces using dynamic atomic force microscopy with metallic tips. *Physical Review Letters*, **2011**, 106, 216102	7.4	52
514	Bulk Cr tips with full spatial magnetic sensitivity for spin-polarized scanning tunneling microscopy. *Applied Physics Letters*, **2010**, 97, 083104	3.4	52
513	Conical spin-spiral state in an ultrathin film driven by higher-order spin interactions. *Physical Review Letters*, **2012**, 108, 087205	7.4	52
512	Electrostatic force microscopy on ferroelectric crystals in inert gas atmosphere. *Physical Review B*, **1997**, 55, 4-7	3.3	52
511	Tuning emergent magnetism in a Hund's impurity. *Nature Nanotechnology*, **2015**, 10, 958-64	28.7	51
510	Current-driven domain wall motion in cylindrical nanowires. *Physical Review B*, **2010**, 82,	3.3	51
509	Origin of the ferroelectric domain contrast observed in lateral force microscopy. *Physical Review B*, **1998**, 57, 161-169	3.3	51
508	Dynamic scanning force microscopy at low temperatures on a noble-gas crystal: Atomic resolution on the xenon(111) surface. *Europhysics Letters*, **1999**, 48, 276-279	1.6	51
507	Progress towards spin-polarized scanning tunneling microscopy. *Journal of Applied Physics*, **1992**, 71, 5489-5499	2.5	50
506	Magnetic exchange splitting of the Gd(0001) surface state studied by variable-temperature scanning tunneling spectroscopy. *Applied Physics A: Materials Science and Processing*, **1998**, 66, S121-S124	2.6	49
505	Dynamic low-temperature scanning force microscopy on nickel oxide (001). *Applied Physics A: Materials Science and Processing*, **2001**, 72, S27-S30	2.6	49
504	Surface modification in the nanometer range by the scanning tunneling microscope. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **1988**, 6, 537-539	2.9	49
503	Effect of charge manipulation on scanning tunneling spectra of single Mn acceptors in InAs. *Physical Review B*, **2008**, 77,	3.3	48
502	H-induced plastic deformation of Gd thin films studied by STM. *Physical Review B*, **2000**, 61, 9964-9967	3.3	48
501	Spintronics: Skyrmionics gets hot. *Nature Materials*, **2016**, 15, 493-4	27	48

500	Isolated zero field sub-10 nm skyrmions in ultrathin Co films. *Nature Communications*, **2019**, 10, 3823	17.4	46
499	Tailoring molecular self-assembly of magnetic phthalocyanine molecules on Fe- and Co-intercalated graphene. *ACS Nano*, **2013**, 7, 11341-9	16.7	46
498	Multiscale magnetic study of Ni(111) and graphene on Ni(111). *Physical Review B*, **2011**, 84,	3.3	46
497	Probing the magnetic exchange forces of iron on the atomic scale. *Nano Letters*, **2009**, 9, 200-4	11.5	46
496	Quantitative analysis of the frictional properties of solid materials at low loads. II. Mica and germanium sulfide. *Physical Review B*, **1997**, 56, 6997-7000	3.3	46
495	Unoccupied surface state on Pt(111) revealed by scanning tunneling spectroscopy. *Physical Review B*, **2005**, 72,	3.3	46
494	Scanning tunneling spectroscopy of Fe/W(110) using iron covered probe tips. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **1997**, 15, 1285-1290	2.9	45
493	Noncollinear magnetic order in quasicrystals. *Physical Review Letters*, **2004**, 93, 076407	7.4	45
492	Fabrication of nanometer structures using STM. *Applied Surface Science*, **1992**, 54, 271-277	6.7	45
491	Spin-Resolved Spectroscopy of the Yu-Shiba-Rusinov States of Individual Atoms. *Physical Review Letters*, **2017**, 119, 197002	7.4	44
490	Spin-dependent electronic and magnetic properties of Co nanostructures on Pt(111) studied by spin-resolved scanning tunneling spectroscopy. *Physical Review B*, **2006**, 74,	3.3	44
489	A low-temperature ultrahigh vacuum scanning force microscope with a split-coil magnet. *Review of Scientific Instruments*, **2002**, 73, 3508-3514	1.7	43
488	Vertical polarization of quantum magnets in high density arrays of nickel dots with small height-to-diameter ratio. *Applied Physics Letters*, **1998**, 72, 2168-2170	3.4	43
487	Vacuum tunneling of spin-polarized electrons detected by scanning tunneling microscopy. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **1991**, 9, 519		43
486	Minimal radius of magnetic skyrmions: statics and dynamics. *New Journal of Physics*, **2016**, 18, 045021	2.9	43
485	Absence of a spin-signature from a single Ho adatom as probed by spin-sensitive tunneling. *Nature Communications*, **2016**, 7, 10454	17.4	42
484	Structure of cross-tie wall in thin Co films resolved by magnetic force microscopy. *Applied Physics Letters*, **1996**, 68, 3635-3637	3.4	42
483	Local structure of the Si(100) surface studied by scanning tunneling microscopy. *Surface Science*, **1990**, 232, 1-5	1.8	42

482	Long-range magnetic coupling between nanoscale organic-metal hybrids mediated by a nanoskyrmion lattice. *Nature Nanotechnology*, **2014**, 9, 1018-23	28.7	41
481	Quantitative measurement of the magnetic exchange interaction across a vacuum gap. *Physical Review Letters*, **2011**, 106, 257202	7.4	41
480	Temperature-dependent exchange splitting of the magnetic Gd(0001) surface state. *Journal of Magnetism and Magnetic Materials*, **1998**, 184, 155-165	2.8	41
479	Direct observation of confined states in metallic single-walled carbon nanotubes. *Applied Physics Letters*, **2003**, 83, 1011-1013	3.4	40
478	Magnetism of nanoscale Fe islands studied by spin-polarized scanning tunneling spectroscopy. *Physical Review B*, **2001**, 63,	3.3	40
477	Charge freezing and surface anisotropy on magnetite (100). *Journal of Applied Physics*, **1993**, 73, 6742-6744	2.5	40
476	Local tunneling barrier height images obtained with the scanning tunneling microscope. *Surface Science*, **1987**, 189-190, 24-28	1.8	40
475	Interfacial superconductivity in a bi-collinear antiferromagnetically ordered FeTe monolayer on a topological insulator. *Nature Communications*, **2017**, 8, 14074	17.4	39
474	Impact of the skyrmion spin texture on magnetoresistance. *Physical Review B*, **2017**, 95,	3.3	39
473	Multipolar ordering and magnetization reversal in two-dimensional nanomagnet arrays. *Physical Review Letters*, **2005**, 95, 207202	7.4	39
472	Structural, electronic, and magnetic properties of a Mn monolayer on W(110). *Physical Review B*, **2002**, 66,	3.3	39
471	Influence of the degree of decoupling of graphene on the properties of transition metal adatoms. *Physical Review B*, **2013**, 87,	3.3	38
470	Domain wall motion damped by the emission of spin waves. *Physical Review B*, **2010**, 81,	3.3	38
469	Composition-driven change of the magnetic anisotropy of ultrathin Co/Au(111) films studied by means of magnetic-force microscopy in ultrahigh vacuum. *Physical Review B*, **1999**, 59, 4273-4278	3.3	38
468	Application of scanning tunneling microscopy to disordered systems. *Surface Science*, **1987**, 181, 46-54	1.8	38
467	Electric-field-induced magnetic anisotropy in a nanomagnet investigated on the atomic scale. *Physical Review Letters*, **2014**, 112, 017204	7.4	37
466	Thermal stability of an interface-stabilized skyrmion lattice. *Physical Review Letters*, **2014**, 113, 077202	7.4	37
465	Investigation of the swelling of human skin cells in liquid media by tapping mode scanning force microscopy. *Applied Physics A: Materials Science and Processing*, **2001**, 72, S125-S128	2.6	36

464	Experimental evidence for intra-atomic noncollinear magnetism at thin film probe tips. *Physical Review Letters*, **2001**, 86, 2142-5	7.4	36
463	Using metallic noncontact atomic force microscope tips for imaging insulators and polar molecules: tip characterization and imaging mechanisms. *ACS Nano*, **2014**, 8, 5339-51	16.7	35
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461	Unambiguous determination of the adsorption geometry of a metal--organic complex on a bulk insulator. *Nano Letters*, **2010**, 10, 2965-71	11.5	35
460	Thickness dependent magnetization states of Fe islands on W(110): From single domain to vortex and diamond patterns. *Applied Physics Letters*, **2004**, 84, 948-950	3.4	35
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457	Coverage dependence of the Fe-induced Fermi-level shift and the two-dimensional electron gas on InAs(110). *Physical Review B*, **2000**, 61, 13805-13812	3.3	34
456	Temperature-Dependent Exchange Splitting of a Surface State on a Local-Moment Magnet: Tb(0001). *Physical Review Letters*, **1999**, 83, 3017-3020	7.4	34
455	Different Response of Atomic Force Microscopy and Scanning Tunnelling Microscopy to Charge Density Waves. *Europhysics Letters*, **1989**, 9, 695-700	1.6	34
454	Spin-resolved splitting of Kondo resonances in the presence of RKKY-type coupling. *Physical Review Letters*, **2012**, 108, 087203	7.4	33
453	Correlation of dislocation and domain structure of Cr(001) investigated by spin-polarized scanning tunneling microscopy. *Physical Review B*, **2003**, 67,	3.3	33
452	Low temperature scanning tunneling spectroscopy on InAs(110). *Journal of Electron Spectroscopy and Related Phenomena*, **2000**, 109, 127-145	1.7	33
451	Growth of C60 thin films on GeS(001) studied by scanning force microscopy. *Physical Review B*, **1995**, 52, 5967-5976	3.3	33
450	Surface structure of donor graphite intercalation compounds by scanning tunneling microscopy. *Physical Review B*, **1989**, 39, 11135-11138	3.3	33
449	Toward Tailored All-Spin Molecular Devices. *Nano Letters*, **2016**, 16, 577-82	11.5	32
448	Tunneling anisotropic magnetoresistance on the atomic scale. *Physical Review B*, **2012**, 86,	3.3	32
447	Direct measurement of the local density of states of a disordered one-dimensional conductor. *Physical Review Letters*, **2003**, 91, 076803	7.4	32

446	Surface structure of ferroelectric domains on the triglycine sulfate (010) surface. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **1996**, 14, 1180		31
445	Nanoscale magnetic skyrmions and target states in confined geometries. *Physical Review B*, **2019**, 99,	3.3	30
444	"Naked" iron-5,10,15-triphenylcorrole on Cu(111): observation of chirality on a surface and manipulation of multiple conformational states by STM. *Journal of the American Chemical Society*, **2008**, 130, 14072-3	16.4	30
443	Nano- and atomic-scale magnetism studied by spin-polarized scanning tunneling microscopy and spectroscopy. *Solid State Communications*, **2001**, 119, 341-355	1.6	30
442	Contributions of scanning probe microscopy and spectroscopy to the investigation and fabrication of nanometer-scale structures. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **1994**, 12, 515		30
441	Evidence for Selective Imaging of Different Magnetic Ions on the Atomic Scale by Using a Scanning Tunnelling Microscope with a Ferromagnetic Probe Tip. *Europhysics Letters*, **1992**, 19, 141-146	1.6	30
440	Guiding Spin Spirals by Local Uniaxial Strain Relief. *Physical Review Letters*, **2016**, 116, 017201	7.4	29
439	Fe adatoms on graphene/Ru(0001): Adsorption site and local electronic properties. *Physical Review B*, **2011**, 84,	3.3	29
438	Atomic and local electronic structure of Gd thin films studied by STM and STS. *Physical Review B*, **1997**, 56, 3636-3639	3.3	29
437	Imaging of domain-inverted gratings in LiNbO3 by electrostatic force microscopy. *Applied Physics Letters*, **1997**, 71, 146-148	3.4	29
436	Origin of Landau oscillations observed in scanning tunneling spectroscopy on n-InAs(110). *Physical Review B*, **2000**, 62, 7257-7263	3.3	29
435	Engineering the spin couplings in atomically crafted spin chains on an elemental superconductor. *Nature Communications*, **2018**, 9, 3253	17.4	28
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433	Atomic resolution in scanning force microscopy: Concepts, requirements, contrast mechanisms, and image interpretation. *Physical Review B*, **2000**, 62, 13089-13097	3.3	28
432	Spatial fluctuations of the density of states in magnetic fields observed with scanning tunneling spectroscopy. *Physical Review Letters*, **2000**, 84, 5588-91	7.4	28
431	Topography and local modification of the HoBa2Cu3O7⊠(001) surface using scanning tunneling microscopy. *Applied Physics Letters*, **1988**, 53, 2447-2449	3.4	28
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