Roland Wiesendanger

List of Publications by Year in Descending Order

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	Zero-field skyrmionic states and in-field edge-skyrmions induced by boundary tuning. *Communications Physics*, **2022**, 5,	5.4	1
624	Spin-orbit coupling induced splitting of Yu-Shiba-Rusinov states in antiferromagnetic dimers. *Nature Communications*, **2021**, 12, 2040	17.4	9
623	Anomalous Flexural Elasticities of Graphene Membranes Unveiled by Manipulating Topology. *Physical Review Letters*, **2021**, 126, 146101	7.4	0
622	Observation of Hydrogen-Induced Dzyaloshinskii-Moriya Interaction and Reversible Switching of Magnetic Chirality. *Physical Review X*, **2021**, 11,	9.1	11
621	Topological Shiba bands in artificial spin chains on superconductors. *Nature Physics*, **2021**, 17, 943-948	16.2	9
620	Discovery and characterization of a new type of domain wall in a row-wise antiferromagnet. *Nature Communications*, **2021**, 12, 3488	17.4	1
619	Spin-Polarized Yu-Shiba-Rusinov States in an Iron-Based Superconductor. *Physical Review Letters*, **2021**, 126, 076802	7.4	9
618	Correlation of Yu-Shiba-Rusinov States and Kondo Resonances in Artificial Spin Arrays on an s-Wave Superconductor. *Nano Letters*, **2021**, 21, 6748-6755	11.5	1
617	Anisotropic non-split zero-energy vortex bound states in a conventional superconductor. *Applied Physics Reviews*, **2021**, 8, 031417	17.3	1
616	Disorder-induced time effect in the antiferromagnetic domain state of Fe1+Te. *Journal of Magnetism and Magnetic Materials*, **2021**, 540, 168426	2.8	
615	Atomic-scale spin-polarization maps using functionalized superconducting probes. *Science Advances* , **2021**, 7,	14.3	10
614	Topological superconductivity induced by a triple-q magnetic structure. *Physical Review B*, **2020**, 102,	3.3	3
613	Tuning the Properties of Zero-Field Room Temperature Ferromagnetic Skyrmions by Interlayer Exchange Coupling. *Nano Letters*, **2020**, 20, 4739-4747	11.5	5
612	Discovery of Magnetic Single- and Triple-q States in Mn/Re(0001). *Physical Review Letters*, **2020**, 124, 227203	7.4	12
611	Plumbene on a Magnetic Substrate: A Combined Scanning Tunneling Microscopy and Density Functional Theory Study. *Physical Review Letters*, **2020**, 124, 126401	7.4	10
610	Real-space imaging of atomic-scale spin textures at nanometer distances. *Applied Physics Letters*, **2020**, 116, 122406	3.4	1
609	Temperature and magnetic field dependent behavior of atomic-scale skyrmions in Pd/Fe/Ir(111) nanoislands. *Physical Review B*, **2020**, 101,	3.3	6

608	In Situ Synthesis of Metal–Salophene Complexes on Intercalated Graphene. *Journal of Physical Chemistry C*, **2020**, 124, 4279-4287	3.8	1
607	Stacking-Dependent Spin Interactions in Pd/Fe Bilayers on Re(0001). *Physical Review Letters*, **2020**, 125, 227205	7.4	0
606	Towards skyrmion-superconductor hybrid systems. *Physical Review Materials*, **2020**, 4,	3.2	7
605	Spectroscopic signature of the Stark-shifted Tamm-type surface state of La(0001). *New Journal of Physics*, **2020**, 22, 093013	2.9	
604	A cavity optomechanical locking scheme based on the optical spring effect. *Review of Scientific Instruments*, **2020**, 91, 103102	1.7	3
603	Large Dzyaloshinskii-Moriya interaction induced by chemisorbed oxygen on a ferromagnet surface. *Science Advances*, **2020**, 6, eaba4924	14.3	26
602	Controlling in-gap end states by linking nonmagnetic atoms and artificially-constructed spin chains on superconductors. *Nature Communications*, **2020**, 11, 4707	17.4	10
601	Long-range focusing of magnetic bound states in superconducting lanthanum. *Nature Communications*, **2020**, 11, 4573	17.4	5
600	Rotating edge-field driven processing of chiral spin textures in racetrack devices. *Scientific Reports*, **2020**, 10, 20400	4.9	0
599	Vacuum Resonance States as Atomic-Scale Probes of Noncollinear Surface Magnetism. *Physical Review Letters*, **2019**, 123, 087202	7.4	1
598	Magnetism and in-gap states of 3d transition metal atoms on superconducting Re. *Npj Quantum Materials*, **2019**, 4,	5	15
597	Stabilizing spin systems via symmetrically tailored RKKY interactions. *Nature Communications*, **2019**, 10, 2565	17.4	15
596	Stochastic dynamics and pattern formation of geometrically confined skyrmions. *Communications Physics*, **2019**, 2,	5.4	11
595	Nanoscale magnetic skyrmions and target states in confined geometries. *Physical Review B*, **2019**, 99,	3.3	30
594	Atomically resolved magnetic structure of a Gd-Au surface alloy. *Physical Review B*, **2019**, 99,	3.3	4
593	Magneto-Seebeck tunneling on the atomic scale. *Science*, **2019**, 363, 1065-1067	33.3	15
592	Tuning noncollinear magnetic states by hydrogenation. *Physical Review B*, **2019**, 99,	3.3	1
591	Isolated zero field sub-10 nm skyrmions in ultrathin Co films. *Nature Communications*, **2019**, 10, 3823	17.4	46

590	Step-Edge-Induced Anisotropic Chiral Spin Coupling in Ultrathin Magnetic Films. *Physical Review Letters*, **2019**, 123, 037201	7.4	
589	Atomic-scale interface engineering of Majorana edge modes in a 2D magnet-superconductor hybrid system. *Science Advances*, **2019**, 5, eaav6600	14.3	67
588	Probing Weakly Hybridized Magnetic Molecules by Single-Atom Magnetometry. *Nano Letters*, **2019**, 19, 9013-9018	11.5	5
587	Atomically thin oxide layer on the elemental superconductor Ta(001) surface. *Physical Review Materials*, **2019**, 3,	3.2	1
586	Magnetic Skyrmions on Discrete Lattices **2019**, 323-357		0
585	Electrical Detection of Domain Walls and Skyrmions in Co Films Using Noncollinear Magnetoresistance. *Physical Review Letters*, **2019**, 123, 237205	7.4	8
584	A radio-frequency spin-polarized scanning tunneling microscope. *Review of Scientific Instruments*, **2019**, 90, 123705	1.7	7
583	Long Spin-Relaxation Times in a Transition-Metal Atom in Direct Contact to a Metal Substrate. *Nano Letters*, **2018**, 18, 1978-1983	11.5	16
582	Electronic structure of FeTe bulk crystals and epitaxial FeTe thin films on BiTe. *Journal of Physics Condensed Matter*, **2018**, 30, 065502	1.8	6
581	Enhanced spin-ordering temperature in ultrathin FeTe films grown on a topological insulator. *Physical Review B*, **2018**, 97,	3.3	4
580	Inducing skyrmions in ultrathin Fe films by hydrogen exposure. *Nature Communications*, **2018**, 9, 1571	17.4	27
579	Domain imaging across the magneto-structural phase transitions in Fe1+yTe. *Npj Quantum Materials*, **2018**, 3,	5	5
578	Scanning Seebeck tunneling microscopy. *Journal Physics D: Applied Physics*, **2018**, 51, 324001	3	7
577	Atomic-Site-Specific Analysis on Out-of-Plane Elasticity of Convexly Curved Graphene and Its Relationship to sp^2 to sp^3 Re-Hybridization. *Crystals*, **2018**, 8, 102	2.3	2
576	Non-collinear spin states in bottom-up fabricated atomic chains. *Nature Communications*, **2018**, 9, 2853	17.4	23
575	Toward tailoring Majorana bound states in artificially constructed magnetic atom chains on elemental superconductors. *Science Advances*, **2018**, 4, eaar5251	14.3	134
574	Engineering the spin couplings in atomically crafted spin chains on an elemental superconductor. *Nature Communications*, **2018**, 9, 3253	17.4	28
573	Combined feedback and sympathetic cooling of a mechanical oscillator coupled to ultracold atoms. *New Journal of Physics*, **2018**, 20, 093020	2.9	12

572	Magnetic domain walls in strain-patterned ultrathin films. *Physical Review B*, **2018**, 98,	3.3	1
571	Magnetic Spectroscopy of Individual Atoms, Chains and Nanostructures. *Nanoscience and Technology*, **2018**, 3-24	0.6	
570	Non-collinear Magnetism Studied with Spin-Polarized Scanning Tunneling Microscopy. *Nanoscience and Technology*, **2018**, 163-182	0.6	
569	Localized spin waves in isolated k□skyrmions. *Physical Review B*, **2018**, 98,	3.3	14
568	Magnetization Dynamics on the Atomic Scale. *Nanoscience and Technology*, **2018**, 221-248	0.6	
567	Pb-induced skyrmions in a double layer of Fe on Ir(111). *Physical Review B*, **2018**, 98,	3.3	3
566	Effective damping enhancement in noncollinear spin structures. *Physical Review B*, **2018**, 98,	3.3	6
565	Competition of Dzyaloshinskii-Moriya and Higher-Order Exchange Interactions in Rh/Fe Atomic Bilayers on Ir(111). *Physical Review Letters*, **2018**, 120, 207201	7.4	27
564	Domain walls and Dzyaloshinskii-Moriya interaction in epitaxial Co/Ir(111) and Pt/Co/Ir(111). *Physical Review B*, **2018**, 97,	3.3	19
563	Controlled creation and stability of k□skyrmions on a discrete lattice. *Physical Review B*, **2018**, 97,	3.3	26
562	Interfacial superconductivity in a bi-collinear antiferromagnetically ordered FeTe monolayer on a topological insulator. *Nature Communications*, **2017**, 8, 14074	17.4	39
561	Reorientation of the diagonal double-stripe spin structure at FeTe bulk and thin-film surfaces. *Nature Communications*, **2017**, 8, 13939	17.4	20
560	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	2.9	4
559	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	1.7	13
558	Attractive force-driven superhardening of graphene membranes as a pin-point breaking of continuum mechanics. *Scientific Reports*, **2017**, 7, 46083	4.9	4
557	Impact of the skyrmion spin texture on magnetoresistance. *Physical Review B*, **2017**, 95,	3.3	39
556	Spatial variation of the two-fold anisotropic superconducting gap in a monolayer of FeSe0.5Te0.5 on a topological insulator. *Physical Review B*, **2017**, 95,	3.3	9
555	Characterizing tips suitable for atomic force microscopy and spectroscopy with atomic resolution and spin sensitivity. *Applied Physics Letters*, **2017**, 110, 061601	3.4	1

554	Exploring the Relation Between Intramolecular Conjugation and Band Dispersion in One-Dimensional Polymers. *Journal of Physical Chemistry C*, **2017**, 121, 27118-27125	3.8	15
553	A gateway towards non-collinear spin processing using three-atom magnets with strong substrate coupling. *Nature Communications*, **2017**, 8, 642	17.4	17
552	Temperature-Induced Increase of Spin Spiral Periods. *Physical Review Letters*, **2017**, 119, 037202	7.4	8
551	Probing the Nano-Skyrmion Lattice on Fe/Ir(111) with Magnetic Exchange Force Microscopy. *Physical Review Letters*, **2017**, 119, 047205	7.4	26
550	On-Surface Oligomerization of Self-Terminating Molecular Chains for the Design of Spintronic Devices. *ACS Nano*, **2017**, 11, 9200-9206	16.7	18
549	Spin-Resolved Spectroscopy of the Yu-Shiba-Rusinov States of Individual Atoms. *Physical Review Letters*, **2017**, 119, 197002	7.4	44
548	Electric-field-driven switching of individual magnetic skyrmions. *Nature Nanotechnology*, **2017**, 12, 123-126	38.7	212
547	Structural and electronic properties of ultrathin FeSe films grown on BiSe(0 0 0 1) studied by STM/STS. *Journal of Physics Condensed Matter*, **2017**, 29, 025004	1.8	6
546	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	2.9	1
545	Tunneling into thin superconducting films: Interface-induced quasiparticle lifetime reduction. *Surface Science*, **2016**, 643, 6-9	1.8	5
544	STM study of the preparation of clean Ta(110) and the subsequent growth of two-dimensional Fe islands. *Surface Science*, **2016**, 653, 113-117	1.8	1
543	Coupling of Coexisting Noncollinear Spin States in the Fe Monolayer on Re(0001). *Nano Letters*, **2016**, 16, 6252-6256	11.5	11
542	High-frequency magnetization dynamics of individual atomic-scale magnets. *Physical Review B*, **2016**, 93,	3.3	8
541	Structural and magnetic properties of Ni/Fe nanostructures on Ir(111). *Physical Review B*, **2016**, 93,	3.3	10
540	Band-gap engineering by Bi intercalation of graphene on Ir(111). *Physical Review B*, **2016**, 93,	3.3	22
539	Guiding Spin Spirals by Local Uniaxial Strain Relief. *Physical Review Letters*, **2016**, 116, 017201	7.4	29
538	Spin-sensitive shape asymmetry of adatoms on noncollinear magnetic substrates. *Physical Review B* , **2016**, 93,	3.3	6
537	Nickel: The time-reversal symmetry conserving partner of iron on a chalcogenide topological insulator. *Physical Review B*, **2016**, 94,	3.3	7

536	Tailoring the chiral magnetic interaction between two individual atoms. *Nature Communications*, **2016**, 7, 10620	17.4	56
535	Skyrmions at the Edge: Confinement Effects in Fe/Ir(111). *Physical Review Letters*, **2016**, 117, 207202	7.4	13
534	The properties of isolated chiral skyrmions in thin magnetic films. *New Journal of Physics*, **2016**, 18, 065003	2.9	195
533	Nanoscale magnetic skyrmions in metallic films and multilayers: a new twist for spintronics. *Nature Reviews Materials*, **2016**, 1,	73.3	342
532	Symmetry breaking in spin spirals and skyrmions by in-plane and canted magnetic fields. *New Journal of Physics*, **2016**, 18, 075007	2.9	11
531	Pinning and movement of individual nanoscale magnetic skyrmions via defects. *New Journal of Physics*, **2016**, 18, 055009	2.9	66
530	Set-up of a high-resolution 300 mK atomic force microscope in an ultra-high vacuum compatible (3)He/10 T cryostat. *Review of Scientific Instruments*, **2016**, 87, 073702	1.7	4
529	Quantum revivals and magnetization tunneling in effective spin systems. *New Journal of Physics*, **2016**, 18, 033029	2.9	5
528	Absence of a spin-signature from a single Ho adatom as probed by spin-sensitive tunneling. *Nature Communications*, **2016**, 7, 10454	17.4	42
527	Toward Tailored All-Spin Molecular Devices. *Nano Letters*, **2016**, 16, 577-82	11.5	32
526	Atomic-Scale Spintronics **2016**, 757-784		
525	Tailoring noncollinear magnetism by misfit dislocation lines. *Physical Review B*, **2016**, 94,	3.3	6
524	Minimal radius of magnetic skyrmions: statics and dynamics. *New Journal of Physics*, **2016**, 18, 045021	2.9	43
523	Quantum technology: from research to application. *Applied Physics B: Lasers and Optics*, **2016**, 122, 1	1.9	21
522	Spintronics: Skyrmionics gets hot. *Nature Materials*, **2016**, 15, 493-4	27	48
521	Pattern formation in skyrmionic materials with anisotropic environments. *Physical Review B*, **2016**, 94,	3.3	19
520	Response of the topological surface state to surface disorder in TlBiSe2. *New Journal of Physics*, **2015**, 17, 023067	2.9	17
519	Giant magnetization canting due to symmetry breaking in zigzag Co chains on Ir(001). *New Journal of Physics*, **2015**, 17, 023014	2.9	14

518	Field-dependent size and shape of single magnetic Skyrmions. *Physical Review Letters*, **2015**, 114, 177203	7.4	334
517	Influence of the local atom configuration on a hexagonal skyrmion lattice. *Nano Letters*, **2015**, 15, 3280-5	11.5	27
516	Magnetic Nano-skyrmion Lattice Observed in a Si-Wafer-Based Multilayer System. *ACS Nano*, **2015**, 9, 5908-12	16.7	17
515	Multi-layer and multi-component intercalation at the graphene/Ir(111) interface. *Surface Science*, **2015**, 639, 70-74	1.8	12
514	Electrical detection of magnetic skyrmions by tunnelling non-collinear magnetoresistance. *Nature Nanotechnology*, **2015**, 10, 1039-42	28.7	145
513	Temperature and non-linear response of cantilever-type mechanical oscillators used in atomic force microscopes with interferometric detection. *Applied Physics Letters*, **2015**, 106, 123102	3.4	3
512	Stability of single skyrmionic bits. *Nature Communications*, **2015**, 6, 8455	17.4	100
511	Tuning emergent magnetism in a Hund's impurity. *Nature Nanotechnology*, **2015**, 10, 958-64	28.7	51
510	Investigating the differences between Co adatoms states on surfaces of selected bismuth chalcogenides. *Physical Review B*, **2015**, 92,	3.3	4
509	Revealing Subsurface Vibrational Modes by Atomic-Resolution Damping Force Spectroscopy. *Nanoscience and Technology*, **2015**, 127-145	0.6	
508	Bounds on expectation values of quantum subsystems and perturbation theory. *Journal of Physics A: Mathematical and Theoretical*, **2015**, 48, 075301	2	4
507	Screening and atomic-scale engineering of the potential at a topological insulator surface. *Physical Review B*, **2014**, 89,	3.3	12
506	Electric-field-induced magnetic anisotropy in a nanomagnet investigated on the atomic scale. *Physical Review Letters*, **2014**, 112, 017204	7.4	37
505	Parity effects in 120° spin spirals. *Physical Review Letters*, **2014**, 112, 047204	7.4	11
504	Long-range magnetic coupling between nanoscale organic-metal hybrids mediated by a nanoskyrmion lattice. *Nature Nanotechnology*, **2014**, 9, 1018-23	28.7	41
503	Superconductivity of lanthanum revisited: enhanced critical temperature in the clean limit. *Journal of Physics Condensed Matter*, **2014**, 26, 425703	1.8	14
502	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
501	Enhanced atomic-scale spin contrast due to spin friction. *Physical Review Letters*, **2014**, 112, 076102	7.4	19

500	Computing with spins and magnets. *MRS Bulletin*, **2014**, 39, 696-702	3.2	25
499	Thermal stability of an interface-stabilized skyrmion lattice. *Physical Review Letters*, **2014**, 113, 077202	7.4	37
498	Intra- and interband electron scattering in a hybrid topological insulator: Bismuth bilayer on Bi2Se3. *Physical Review B*, **2014**, 90,	3.3	24
497	Local tunnel magnetoresistance of an iron intercalated graphene-based heterostructure. *Journal of Physics Condensed Matter*, **2014**, 26, 394004	1.8	18
496	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
495	Strong out-of-plane magnetic anisotropy of Fe adatoms on Bi2Te3. *Physical Review B*, **2014**, 89,	3.3	26
494	Formation and structural analysis of twisted bilayer graphene on Ni(111) thin films. *Surface Science*, **2014**, 625, 44-49	1.8	16
493	Miniaturized high-precision piezo driven two axes stepper goniometer. *Review of Scientific Instruments*, **2014**, 85, 045006	1.7	2
492	Detecting the dipole moment of a single carbon monoxide molecule. *Applied Physics Letters*, **2014**, 105, 011606	3.4	23
491	Scanning tunneling microscopy study of Fe, Co and Cr growth on Re(0001). *Surface Science*, **2014**, 630, 280-285	1.8	12
490	Spin-resolved imaging and spectroscopy of individual molecules with sub-molecular spatial resolution. *MRS Bulletin*, **2014**, 39, 608-613	3.2	6
489	Modification of electrical properties of graphene by substrate-induced nanomodulation. *Nano Letters*, **2013**, 13, 3494-500	11.5	73
488	Non-equilibrium finite temperature dynamics of magnetic quantum systems: applications to spin-polarized scanning tunneling microscopy. *New Journal of Physics*, **2013**, 15, 013009	2.9	7
487	Tailoring molecular self-assembly of magnetic phthalocyanine molecules on Fe- and Co-intercalated graphene. *ACS Nano*, **2013**, 7, 11341-9	16.7	46
486	Determining Adsorption Geometry, Bonding, and Translational Pathways of a Metal□Organic Complex on an Oxide Surface: Co-Salen on NiO(001). *Journal of Physical Chemistry C*, **2013**, 117, 1105-1112	3.8	18
485	Writing and deleting single magnetic skyrmions. *Science*, **2013**, 341, 636-9	33.3	973
484	Atomic-Scale Spintronics **2013**, 1-24		
483	Current-driven spin dynamics of artificially constructed quantum magnets. *Science*, **2013**, 339, 55-9	33.3	181

482	Atomic-scale magnetism of cobalt-intercalated graphene. *Physical Review B*, **2013**, 87,	3.3	127
481	Controllable magnetic doping of the surface state of a topological insulator. *Physical Review Letters*, **2013**, 110, 126804	7.4	90
480	Adatoms and clusters of 3d transition metals on graphene: electronic and magnetic configurations. *Physical Review Letters*, **2013**, 110, 136804	7.4	143
479	Influence of the degree of decoupling of graphene on the properties of transition metal adatoms. *Physical Review B*, **2013**, 87,	3.3	38
478	A theoretical study of the dynamical switching of a single spin by exchange forces. *New Journal of Physics*, **2013**, 15, 013011	2.9	14
477	Co atoms on Bi2Se3revealing a coverage dependent spin reorientation transition. *New Journal of Physics*, **2013**, 15, 113026	2.9	16
476	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
475	Collective magnetism in arrays of spinor Bose–Einstein condensates. *New Journal of Physics*, **2013**, 15, 063033	2.9	2
474	Atomic-Scale Magnetism Studied by Spin-Polarized Scanning Tunneling Microscopy **2013**, 413-446		3
473	Molecular Kondo chain. *Nano Letters*, **2012**, 12, 3174-9	11.5	83
472	Magnetization switching utilizing the magnetic exchange interaction. *Physical Review B*, **2012**, 86,	3.3	11
471	Tunneling anisotropic magnetoresistance on the atomic scale. *Physical Review B*, **2012**, 86,	3.3	32
470	Micromagnetic description of the spin spiral in Fe double-layer stripes on W(110). *Physical Review B*, **2012**, 85,	3.3	8
469	Robust nodal structure of Landau level wave functions revealed by Fourier transform scanning tunneling spectroscopy. *Physical Review Letters*, **2012**, 109, 116805	7.4	24
468	Manipulation of domain walls using a spin-polarized STM. *Europhysics Letters*, **2012**, 97, 17009	1.6	6
467	Atomic-scale magnetic dissipation from spin-dependent adhesion hysteresis. *Physical Review B*, **2012**, 85,	3.3	6
466	Atom-specific spin mapping and buried topological states in a homologous series of topological insulators. *Nature Communications*, **2012**, 3, 635	17.4	168
465	Robust surface doping of Bi2Se3 by rubidium intercalation. *ACS Nano*, **2012**, 6, 7009-15	16.7	54

464	Reversible chiral switching of bis(phthalocyaninato) terbium(III) on a metal surface. *Nano Letters*, **2012**, 12, 3931-5	11.5	63
463	Orbital selective coupling between Ni adatoms and graphene Dirac electrons. *Physical Review B*, **2012**, 85,	3.3	23
462	Individual atomic-scale magnets interacting with spin-polarized field-emitted electrons. *Physical Review Letters*, **2012**, 109, 097602	7.4	10
461	Spin friction observed on the atomic scale. *Physical Review Letters*, **2012**, 109, 116102	7.4	35
460	Atom-by-atom engineering and magnetometry of tailored nanomagnets. *Nature Physics*, **2012**, 8, 497-503	16.2	177
459	Information transfer by vector spin chirality in finite magnetic chains. *Physical Review Letters*, **2012**, 108, 197204	7.4	125
458	Real-space observation of spin-split molecular orbitals of adsorbed single-molecule magnets. *Nature Communications*, **2012**, 3, 953	17.4	122
457	Impact of intercalated cobalt on the electronic properties of graphene on Pt(111). *Physical Review B*, **2012**, 85,	3.3	15
456	In-plane magnetic anisotropy of Fe atoms on Bi2Se3(111). *Physical Review Letters*, **2012**, 108, 256811	7.4	133
455	Spin-resolved characterization of single cobalt phthalocyanine molecules on a ferromagnetic support. *Physical Review B*, **2012**, 86,	3.3	22
454	Spin-resolved splitting of Kondo resonances in the presence of RKKY-type coupling. *Physical Review Letters*, **2012**, 108, 087203	7.4	33
453	Magnetic coupling of single Co adatoms to a Co underlayer through a Pd spacer of variable thickness. *Physical Review B*, **2012**, 86,	3.3	4
452	Conical spin-spiral state in an ultrathin film driven by higher-order spin interactions. *Physical Review Letters*, **2012**, 108, 087205	7.4	52
451	Role of hybridization in the Rashba splitting of noble metal monolayers on W(110). *Physical Review B*, **2012**, 86,	3.3	9
450	Joule heating and spin-transfer torque investigated on the atomic scale using a spin-polarized scanning tunneling microscope. *Physical Review Letters*, **2011**, 107, 186601	7.4	26
449	Strain effects in spinel ferrite thin films from first principles calculations. *Journal of Physics: Conference Series*, **2011**, 292, 012014	0.3	10
448	Two dimensional electron gas confined over a spherical surface: Magnetic moment. *Journal of Physics: Conference Series*, **2011**, 292, 012005	0.3	3
447	LSMO growing opportunities by PLD and applications in spintronics. *Journal of Physics: Conference Series*, **2011**, 292, 012003	0.3	19

446	Atomic magnetism revealed by spin-resolved scanning tunnelling spectroscopy. *Journal Physics D: Applied Physics*, **2011**, 44, 464009	3	19
445	Magnetic properties of monolayer Co islands on Ir(111) probed by spin-resolved scanning tunneling microscopy. *Physical Review B*, **2011**, 84,	3.3	17
444	Itinerant nature of atom-magnetization excitation by tunneling electrons. *Physical Review Letters*, **2011**, 106, 037205	7.4	122
443	Indirect control of antiferromagnetic domain walls with spin current. *Physical Review Letters*, **2011**, 106, 067204	7.4	26
442	Chemical resolution at ionic crystal surfaces using dynamic atomic force microscopy with metallic tips. *Physical Review Letters*, **2011**, 106, 216102	7.4	52
441	Quantitative measurement of the magnetic exchange interaction across a vacuum gap. *Physical Review Letters*, **2011**, 106, 257202	7.4	41
440	Domain wall manipulation with a magnetic tip. *Physical Review Letters*, **2011**, 107, 027203	7.4	12
439	Multiscale magnetic study of Ni(111) and graphene on Ni(111). *Physical Review B*, **2011**, 84,	3.3	46
438	Single-atom magnetometry. *Current Opinion in Solid State and Materials Science*, **2011**, 15, 1-7	12	18
437	Spontaneous atomic-scale magnetic skyrmion lattice in two dimensions. *Nature Physics*, **2011**, 7, 713-718	16.2	1169
436	Nano-electronics and spintronics with nanoparticles. *Journal of Physics: Conference Series*, **2011**, 292, 012002	0.3	28
435	One-pot synthesis of Fe-Co nanospheres by modified polyol process and their structural, magnetic studies. *Journal of Physics: Conference Series*, **2011**, 292, 012015	0.3	2
434	Understanding the Room Temperature Ferromagnetism in GaN Nanowires with Pd Doping. *Journal of Physics: Conference Series*, **2011**, 292, 012013	0.3	1
433	The effects of Mn concentration on structural and magnetic properties of Ge1−xMnxdiluted magnetic semiconductors. *Journal of Physics: Conference Series*, **2011**, 292, 012012	0.3	6
432	Critical current density of domain wall oscillation due to spin-transfer torque. *Journal of Physics: Conference Series*, **2011**, 292, 012007	0.3	1
431	The Effect of a Pulsed Magnetic Field on Domain Wall Resistance in Magnetic Nanowires. *Journal of Physics: Conference Series*, **2011**, 292, 012009	0.3	2
430	Real-space mapping of a disordered two-dimensional electron system in the quantum Hall regime. *Journal of Physics: Conference Series*, **2011**, 334, 012008	0.3	1
429	Modeling thermally activated domain wall dynamics in thin magnetic strips with disorder. *Journal of Physics: Conference Series*, **2011**, 292, 012008	0.3	

428	Chemical and electronic properties of Fe/MgO/Ge heterostructures for spin electronics. *Journal of Physics: Conference Series*, **2011**, 292, 012010	0.3	10
427	Realizing all-spin-based logic operations atom by atom. *Science*, **2011**, 332, 1062-4	33.3	302
426	New advances in organic spintronics. *Journal of Physics: Conference Series*, **2011**, 292, 012001	0.3	8
425	Spin-spin correlations in ferromagnetic nanosystems. *European Physical Journal B*, **2011**, 80, 331-336	1.2	7
424	Logik aus atomaren Spins. *Physik in Unserer Zeit*, **2011**, 42, 162-163	0.1	
423	Fe adatoms on graphene/Ru(0001): Adsorption site and local electronic properties. *Physical Review B*, **2011**, 84,	3.3	29
422	Heat treatment of mechano-chemically produced BaFe12O19/Fe3O4magnetic nano-composites. *Journal of Physics: Conference Series*, **2011**, 292, 012016	0.3	2
421	Magnetostatics and the rotational sense of cycloidal spin spirals. *Physical Review B*, **2011**, 84,	3.3	8
420	Anomalously large g factor of single atoms adsorbed on a metal substrate. *Physical Review B*, **2011**, 84,	3.3	26
419	Spin polarization of platinum (111) induced by the proximity to cobalt nanostripes. *Physical Review B*, **2011**, 83,	3.3	20
418	Spin torque and critical currents for magnetic vortex nano-oscillator in nanopillars. *Journal of Physics: Conference Series*, **2011**, 292, 012006	0.3	13
417	Experimental variation and theoretical analysis of the inelastic contribution to atomic spin excitation spectroscopy. *Physical Review B*, **2011**, 83,	3.3	6
416	Inhomogeneous electronic properties of monolayer graphene on Ru(0001). *Physical Review B*, **2011**, 83,	3.3	27
415	Magnetic anisotropy of (Ge,Mn) nanostructures. *Journal of Physics: Conference Series*, **2011**, 292, 012011	0.3	
414	Non-collinear magnetic order in nanostructures investigated by spin-polarized scanning tunneling microscopy. *Pure and Applied Chemistry*, **2011**, 83, 1981-1988	2.1	1
413	A multi-scale model of domain wall velocities based on ab initio parameters. *Philosophical Magazine* , **2011**, 91, 2248-2262	1.6	4
412	Detecting excitation and magnetization of individual dopants in a semiconductor. *Nature*, **2010**, 467, 1084-7	50.4	89
411	Imaging and manipulating the spin direction of individual atoms. *Nature Nanotechnology*, **2010**, 5, 350-3	28.7	113

410	Strength and directionality of surface Ruderman–Kittel–Kasuya–Yosida interaction mapped on the atomic scale. *Nature Physics*, **2010**, 6, 187-191	16.2	194
409	Magnetoelastic Effects in Nanostructures. *Solid State Phenomena*, **2010**, 168-169, 177-184	0.4	
408	Miniaturized transportable evaporator for molecule deposition inside cryogenic scanning probe microscopes. *Review of Scientific Instruments*, **2010**, 81, 053902	1.7	9
407	Controlled sequential dehydrogenation of single molecules by scanning tunneling microscopy. *Physical Review B*, **2010**, 82,	3.3	15
406	Inversion of spin polarization above individual magnetic adatoms. *Physical Review B*, **2010**, 82,	3.3	16
405	Disposition of the axial ligand in the physical vapor deposition of organometallic complexes. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2010**, 28, 795-798	2.9	10
404	Bulk Cr tips with full spatial magnetic sensitivity for spin-polarized scanning tunneling microscopy. *Applied Physics Letters*, **2010**, 97, 083104	3.4	52
403	Real space visualization of thermal fluctuations in a triangular flux-line lattice. *New Journal of Physics*, **2010**, 12, 033022	2.9	4
402	Scanning Tunneling Spectroscopy of Semiconductor Quantum Dots and Nanocrystals. *Nanoscience and Technology*, **2010**, 183-216	0.6	2
401	Unambiguous determination of the adsorption geometry of a metal--organic complex on a bulk insulator. *Nano Letters*, **2010**, 10, 2965-71	11.5	35
400	Adsorption behavior of asymmetric Pd pincer complexes on a Cu(111) surface. *Langmuir*, **2010**, 26, 10868-71	4	2
399	Domain wall motion damped by the emission of spin waves. *Physical Review B*, **2010**, 81,	3.3	38
398	Spin- and energy-dependent tunneling through a single molecule with intramolecular spatial resolution. *Physical Review Letters*, **2010**, 105, 047204	7.4	240
397	Design of the local spin polarization at the organic-ferromagnetic interface. *Physical Review Letters*, **2010**, 105, 066601	7.4	261
396	Current-driven domain wall motion in cylindrical nanowires. *Physical Review B*, **2010**, 82,	3.3	51
395	Three-electrode self-actuating self-sensing quartz cantilever: design, analysis, and experimental verification. *Review of Scientific Instruments*, **2010**, 81, 053702	1.7	4
394	Heat assisted spin torque switching of quasistable nanomagnets across a vacuum gap. *Applied Physics Letters*, **2010**, 96, 102505	3.4	27
393	Scanning Tunneling Spectroscopy on III–V Materials: Effects of Dimensionality, Magnetic Field, and Magnetic Impurities. *Nanoscience and Technology*, **2010**, 217-243	0.6	2

392	Metal-insulator transition in graphite: A comparison to heterostructures with high carrier mobility **2010**, 34, 30		
391	Nanoscale spin structures dominated by magnetoelastic interactions around dislocation cores as seen via spin-polarized STM. *Physical Review B*, **2009**, 80,	3.3	5
390	Quantized spin waves in ferromagnetic and antiferromagnetic structures with domain walls. *Physical Review B*, **2009**, 79,	3.3	19
389	A low-temperature spin-polarized scanning tunneling microscope operating in a fully rotatable magnetic field. *Review of Scientific Instruments*, **2009**, 80, 023708	1.7	23
388	Atomic-level control of the domain wall velocity in ultrathin magnets by tuning of exchange interactions. *Physical Review Letters*, **2009**, 103, 137202	7.4	11
387	Correction of systematic errors in scanning tunneling spectra on semiconductor surfaces: The energy gap of Si(111)-7 at 0.3 K. *Physical Review B*, **2009**, 80,	3.3	11
386	Quasiantiferromagnetic 120° Néel state in two-dimensional clusters of dipole-quadrupole-interacting particles on a hexagonal lattice. *Physical Review B*, **2009**, 80,	3.3	11
385	Revealing subsurface vibrational modes by atom-resolved damping force spectroscopy. *Physical Review Letters*, **2009**, 102, 195503	7.4	11
384	Cantilever Dynamics and Nonlinear Effects in Atomic Force Microscopy. *Nanoscience and Technology*, **2009**, 361-395	0.6	
383	Adsorption and conformation of porphyrins on metallic surfaces. *Journal of Vacuum Science & Technology B*, **2009**, 27, 799		21
382	Towards an understanding of the atomic scale magnetic contrast formation in NC-AFM: a tip material dependent MExFM study on NiO(001). *Nanotechnology*, **2009**, 20, 264017	3.4	12
381	Hydrogen-related contrast in atomic force microscopy. *Nanotechnology*, **2009**, 20, 264007	3.4	3
380	Dynamics of molecular self-ordering in tetraphenyl porphyrin monolayers on metallic substrates. *Nanotechnology*, **2009**, 20, 275602	3.4	72
379	Steering two-dimensional molecular growth via dipolar interaction. *ChemPhysChem*, **2009**, 10, 2008-11	3.2	25
378	Wavefunction mapping of immobilized InP semiconductor nanocrystals. *Small*, **2009**, 5, 808-12	11	11
377	Magnetization reversal of nanoscale islands: how size and shape affect the arrhenius prefactor. *Physical Review Letters*, **2009**, 103, 127202	7.4	81
376	Spin mapping at the nanoscale and atomic scale. *Reviews of Modern Physics*, **2009**, 81, 1495-1550	40.5	502
375	Method for Precise Force Measurements. *Nanoscience and Technology*, **2009**, 15-30	0.6	1

374	Probing the magnetic exchange forces of iron on the atomic scale. *Nano Letters*, **2009**, 9, 200-4	11.5	46
373	The monomer-to-dimer transition and bimodal growth of Co-salen on NaCl(001): a high resolution atomic force microscopy study. *Nanotechnology*, **2009**, 20, 405608	3.4	14
372	Principles and Applications of the qPlus Sensor. *Nanoscience and Technology*, **2009**, 121-142	0.6	6
371	Noncontact Atomic Force Microscopy. *Nanoscience and Technology*, **2009**,	0.6	89
370	Atomic-resolution three-dimensional force and damping maps of carbon nanotube peapods. *Nanotechnology*, **2009**, 20, 264001	3.4	10
369	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
368	Biological Applications of FM-AFM in Liquid Environment. *Nanoscience and Technology*, **2009**, 329-345	0.6	2
367	Force Spectroscopy on Semiconductor Surfaces. *Nanoscience and Technology*, **2009**, 31-68	0.6	3
366	Tip–Sample Interactions as a Function of Distance on Insulating Surfaces. *Nanoscience and Technology*, **2009**, 69-94	0.6	2
365	Force Field Spectroscopy in Three Dimensions. *Nanoscience and Technology*, **2009**, 95-119	0.6	1
364	Atomic Manipulation on Metal Surfaces. *Nanoscience and Technology*, **2009**, 191-215	0.6	
363	Atomic Manipulation on an Insulator Surface. *Nanoscience and Technology*, **2009**, 217-226	0.6	
362	High-Frequency Low Amplitude Atomic Force Microscopy. *Nanoscience and Technology*, **2009**, 347-360	0.6	
361	Magnetic Exchange Force Microscopy. *Nanoscience and Technology*, **2009**, 275-286	0.6	
360	Atom Manipulation on Semiconductor Surfaces. *Nanoscience and Technology*, **2009**, 169-190	0.6	
359	Multi-Scale Modelling of NC-AFM Imaging and Manipulation at Insulating Surfaces. *Nanoscience and Technology*, **2009**, 251-273	0.6	
358	Study of Thin Oxide Films with NC-AFM: Atomically Resolved Imaging and Beyond. *Nanoscience and Technology*, **2009**, 143-167	0.6	
357	First-Principles Simulation of Magnetic Exchange Force Microscopy on Fe/W(001). *Nanoscience and Technology*, **2009**, 287-301	0.6	

356	Frequency Modulation Atomic Force Microscopy in Liquids. *Nanoscience and Technology*, **2009**, 303-328	0.6	
355	Basic Mechanisms for Single Atom Manipulation in Semiconductor Systems with the FM-AFM. *Nanoscience and Technology*, **2009**, 227-249	0.6	1
354	Atomically resolved mechanical response of individual metallofullerene molecules confined inside carbon nanotubes. *Nature Nanotechnology*, **2008**, 3, 337-41	28.7	56
353	Symmetry reduction of metal phthalocyanines on metals. *Physical Review B*, **2008**, 78,	3.3	82
352	Quantized spin waves in antiferromagnetic Heisenberg chains. *Physical Review Letters*, **2008**, 101, 177202	7.4	8
351	Quantum Hall transition in real space: from localized to extended states. *Physical Review Letters*, **2008**, 101, 256802	7.4	114
350	Atomic-scale spin spiral with a unique rotational sense: Mn monolayer on W(001). *Physical Review Letters*, **2008**, 101, 027201	7.4	193
349	Revealing magnetic interactions from single-atom magnetization curves. *Science*, **2008**, 320, 82-6	33.3	287
348	"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
347	Modulated multipolar structures in magnetic arrays. *Philosophical Magazine*, **2008**, 88, 2683-2697	1.6	
346	Complex magnetic order on the atomic scale revealed by spin-polarized scanning tunnelling microscopy. *Philosophical Magazine*, **2008**, 88, 2627-2642	1.6	8
345	Structure and magnetism of ultra-thin chromium layers on W(110). *New Journal of Physics*, **2008**, 10, 013005	3.7	23
344	Effect of charge manipulation on scanning tunneling spectra of single Mn acceptors in InAs. *Physical Review B*, **2008**, 77,	3.3	48
343	A versatile variable-temperature scanning tunneling microscope for molecular growth. *Review of Scientific Instruments*, **2008**, 79, 083903	1.7	18
342	Entropy driven phase transition in itinerant antiferromagnetic monolayers. *Physical Review B*, **2008**, 77,	3.3	4
341	Evaluating local properties of magnetic tips utilizing an antiferromagnetic surface. *Physical Review B*, **2008**, 78,	3.3	8
340	Future Nanosensors **2008**, 337-356		1
339	Anisotropic superexchange in one-dimensional Fe-chains on InAs(110). *Surface Science*, **2008**, 602, 3297-3302	1.8	2

338	Magnetic sensitive force microscopy. *Nano Today*, **2008**, 3, 28-39	17.9	82
337	Magnetismus mit Dreh. Spinspiralen an Oberflächen. *Physik in Unserer Zeit*, **2008**, 39, 93-97	0.1	1
336	Scanning tunneling microscope study of iron(II) phthalocyanine growth on metals and insulating surfaces. *Surface Science*, **2008**, 602, 677-683	1.8	76
335	Metal-insulator transition in graphite: A comparison to heterostructures with high carrier mobility. *Technical Physics Letters*, **2008**, 34, 30-33	0.7	1
334	Spin mapping on the atomic scale **2008**, 711-712		
333	Correlation effects in wave function mapping of molecular beam epitaxy grown quantum dots. *Nano Letters*, **2007**, 7, 2701-6	11.5	27
332	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
331	Mapping spin structures on the atomic scale. *Europhysics News*, **2007**, 38, 16-21	0.2	4
330	Imaging Atomic-Scale Spin Structures. *Imaging & Microscopy*, **2007**, 9, 21-24		1
329	Magnetic exchange force microscopy with atomic resolution. *Nature*, **2007**, 446, 522-5	50.4	199
328	Chiral magnetic order at surfaces driven by inversion asymmetry. *Nature*, **2007**, 447, 190-3	50.4	688
327	Pros and cons: cryo-electron microscopic evaluation of block faces versus cryo-sections from frozen-hydrated skin specimens prepared by different techniques. *Journal of Microscopy*, **2007**, 225, 201-7	1.9	21
326	Local electronic signatures of impurity states in graphene. *Physical Review B*, **2007**, 75,	3.3	192
325	Current-induced magnetization switching with a spin-polarized scanning tunneling microscope. *Science*, **2007**, 317, 1537-40	33.3	138
324	On the preparation and electronic properties of clean W(110) surfaces. *Surface Science*, **2007**, 601, 3308-3314	1.8	56
323	Complex magnetism of the Fe monolayer on Ir(111). *New Journal of Physics*, **2007**, 9, 396-396	2.9	26
322	Multipole moments of general ellipsoids with two polarized domains. *Journal of Physics A: Mathematical and Theoretical*, **2007**, 40, 14791-14802	2	5
321	Co double-layer nanostructures on Pt(111) studied by spin-polarized scanning tunnelling microscopy. *Journal Physics D: Applied Physics*, **2007**, 40, 1306-1311	3	6

320	Spin-polarized scanning tunneling microscopy and spectroscopy of ferromagnetic Dy(0001)/W(110) films. *Physical Review B*, **2007**, 76,	3.3	22
319	Imaging correlated wave functions of few-electron quantum dots: Theory and scanning tunneling spectroscopy experimentsa). *Journal of Applied Physics*, **2007**, 101, 081714	2.5	18
318	Electronic states of Fe atoms and chains on InAs(110) from scanning tunneling spectroscopy. *Physical Review B*, **2007**, 75,	3.3	12
317	Spin-polarized scanning tunneling microscopy in field emission mode. *Applied Physics Letters*, **2007**, 91, 012508	3.4	20
316	Chiral magnetic ordering in two-dimensional ferromagnets with competing Dzyaloshinsky-Moriya interactions. *Physical Review B*, **2007**, 75,	3.3	56
315	Spin-polarized scanning tunneling spectroscopy of dislocation lines in Fe films on W(110). *Journal of Magnetism and Magnetic Materials*, **2006**, 304, 1-5	2.8	13
314	Consequences of line defects on the magnetic structure of high anisotropy films: Pinning centers on Dy/W(110). *Europhysics Letters*, **2006**, 76, 637-643	1.6	12
313	Atomic-Resolution Dynamic Force Microscopy/Spectroscopy of Individual Single-Walled Carbon Nanotube. *Japanese Journal of Applied Physics*, **2006**, 45, 2286-2289	1.4	4
312	Interplay between magnetic and spatial order in quasicrystals. *Philosophical Magazine*, **2006**, 86, 733-739	1.6	19
311	Observation of the flux-antiflux boundary propagation during magnetization reversal in Bi2Sr2CaCu2O8+□with single vortex resolution. *Applied Physics Letters*, **2006**, 88, 012507	3.4	5
310	Observation of a complex nanoscale magnetic structure in a hexagonal Fe monolayer. *Physical Review Letters*, **2006**, 96, 167203	7.4	85
309	Perturbation theory of exchange interaction. *Physical Review B*, **2006**, 74,	3.3	2
308	Visualizing flux distribution of superconductors in external magnetic fields with magnetic force microscopy. *Physical Review B*, **2006**, 73,	3.3	4
307	Spin-resolved electronic structure of nanoscale cobalt islands on Cu(111). *Physical Review Letters*, **2006**, 96, 237203	7.4	82
306	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
305	Atomic spin structure of antiferromagnetic domain walls. *Nature Materials*, **2006**, 5, 477-81	27	115
304	Coverage-dependent spin reorientation transition temperature of the Fe double-layer on W(110) observed by scanning tunneling microscopy. *Journal of Magnetism and Magnetic Materials*, **2006**, 305, 279-283	2.8	13
303	Spin-polarized scanning tunneling microscopy through an adsorbate layer: Sulfur-covered Fe/W(1 1 0). *Surface Science*, **2006**, 600, L20-L24	1.8	16

302	Growth of Cr on Ir(1 1 1) studied by scanning tunneling microscopy. *Surface Science*, **2006**, 600, 1034-1039	2.8	4
301	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
300	Multipolar ordering and magnetization reversal in two-dimensional nanomagnet arrays. *Physical Review Letters*, **2005**, 95, 207202	7.4	39
299	Spin-Polarized Scanning Tunneling Spectroscopy. *Nanoscience and Technology*, **2005**, 203-223	0.6	2
298	Spin-polarized scanning tunneling microscopy: insight into magnetism from nanostructures to atomic scale spin structures. *Microscopy Research and Technique*, **2005**, 66, 61-71	2.8	8
297	Imaging the switching behavior of superparamagnetic nanoislands by spin-polarized scanning tunneling microscopy. *Microscopy Research and Technique*, **2005**, 66, 117-25	2.8	10
296	Growth and magnetism of Fe on Cr(001): a spin-polarized scanning tunneling spectroscopy and magnetic force microscopy study. *Applied Physics A: Materials Science and Processing*, **2005**, 80, 907-912	2.6	4
295	Lattice-dependent anisotropy in the orientation of magnetic domain walls. *Journal of Magnetism and Magnetic Materials*, **2005**, 290-291, 746-749	2.8	4
294	Interpretation of the atomic scale contrast obtained on graphite and single-walled carbon nanotubes in the dynamic mode of atomic force microscopy. *Nanotechnology*, **2005**, 16, S134-S137	3.4	25
293	Magnetization reversal of a structurally disordered manganite thin film with perpendicular anisotropy. *Physical Review B*, **2005**, 71,	3.3	27
292	Unoccupied surface state on Pt(111) revealed by scanning tunneling spectroscopy. *Physical Review B*, **2005**, 72,	3.3	46
291	Temperature-dependent scanning tunneling spectroscopy of Cr(001): Orbital Kondo resonance versus surface state. *Physical Review B*, **2005**, 72,	3.3	22
290	Absence of spin-flip transition at the Cr(001) surface: A combined spin-polarized scanning tunneling microscopy and neutron scattering study. *Physical Review B*, **2005**, 71,	3.3	22
289	Multipole moments of in-plane magnetized disks. *Journal of Applied Physics*, **2005**, 97, 10J502	2.5	9
288	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
287	Dynamic force spectroscopy across an individual strongly pinned vortex in a Bi2Sr2CaCu2O8+□ single crystal. *Applied Physics Letters*, **2004**, 85, 5307-5309	3.4	6
286	Noncollinear magnetic order in quasicrystals. *Physical Review Letters*, **2004**, 93, 076407	7.4	45
285	Visualization of the Barkhausen effect by magnetic force microscopy. *Physical Review Letters*, **2004**, 92, 077206	7.4	58

284	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
283	Observation of 5f states in UW(110) films by means of scanning tunneling spectroscopy. *Physical Review B*, **2004**, 70,	3.3	13
282	Magnetism of iron on tungsten (001) studied by spin-resolved scanning tunneling microscopy and spectroscopy. *Physical Review B*, **2004**, 70,	3.3	22
281	Spin-polarized electron scattering at single oxygen adsorbates on a magnetic surface. *Physical Review Letters*, **2004**, 92, 046801	7.4	21
280	Direct observation of vortices trapped at stacking fault dislocations in Bi2Sr2CaCu2O8 by a low-temperature magnetic force microscope. *Physical Review B*, **2004**, 69,	3.3	12
279	Contributions of the escape depth to the photoelectron intensity of a well-defined initial state. *Physical Review B*, **2004**, 70,	3.3	1
278	Scanning tunneling spectroscopy on Co(0001): Spectroscopic signature of stacking faults and dislocation lines. *Physical Review B*, **2004**, 70,	3.3	23
277	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
276	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
275	Fundamental studies of magnetism down to the atomic scale: present status and future perspectives of spin-polarized scanning tunneling microscopy. *Journal of Magnetism and Magnetic Materials*, **2004**, 272-276, 2115-2120	2.8	12
274	Recent advances in spin-polarized scanning tunneling microscopy. *Applied Physics A: Materials Science and Processing*, **2004**, 78, 781-785	2.6	6
273	Controlled preparation of a magnetic thin film alloy: GdFe2 and GdFe3. *Surface Science*, **2004**, 566-568, 236-240	1.8	4
272	Tilted magnetization of a La0.7Sr0.3MnO3/LaAlO3 (001) thin film. *Journal of Magnetism and Magnetic Materials*, **2004**, 280, 51-59	2.8	6
271	Shape-dependent thermal switching behavior of superparamagnetic nanoislands. *Physical Review Letters*, **2004**, 92, 067201	7.4	88
270	Domain wall orientation in magnetic nanowires. *Physical Review Letters*, **2004**, 92, 077207	7.4	64
269	Dead but highly dynamic--the stratum corneum is divided into three hydration zones. *Skin Pharmacology and Physiology*, **2004**, 17, 246-57	3	76
268	Spin-polarized scanning tunneling spectroscopy of nanoscale cobalt islands on Cu(111). *Physical Review Letters*, **2004**, 92, 057202	7.4	138
267	Visualizing the Influence of Interactions on the Nanoscale: Simple Electron Systems. *AIP Conference Proceedings*, **2003**,	0	1

266	Three-Dimensional Force Field Spectroscopy. *AIP Conference Proceedings*, **2003**,	0	27
265	Low Density Two-Dimensional Electron Systems Studied by Scanning Tunneling Spectroscopy. *Japanese Journal of Applied Physics*, **2003**, 42, 4809-4815	1.4	1
264	Comparative study of MeV C+ and C2+ ion implantation in GaAs(100): Surface roughness and evaluation of lattice strain. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **2003**, 21, 1134		6
263	Impurity-induced resistivity of ferroelastic domain walls in doped lead phosphate. *Journal of Physics Condensed Matter*, **2003**, 15, 957-962	1.8	27
262	Correlation of structural and local electronic and magnetic properties of Fe/Cr(001) studied by spin-polarized scanning tunnelling microscopy. *Journal of Physics Condensed Matter*, **2003**, 15, S2513-S2531	1.8	19
261	Frozen hydrated bloc-face investigation of tissue for Cryo SEM. *Microscopy and Microanalysis*, **2003**, 9, 504-505	0.5	
260	Domain nucleation and growth of La0.7Ca0.3MnO3/LaAlO3 films studied by low temperature magnetic force microscopy. *Journal of Applied Physics*, **2003**, 93, 8319-8321	2.5	13
259	Frozen hydrated bloc-face investigation of tissue for Cryo SEM. *Microscopy and Microanalysis*, **2003**, 9, 1546-1547	0.5	
258	Vortex Dynamics in Bi2Sr2CaCu2O8 Single Crystal with Low Density Columnar Defects Studied by Magnetic Force Microscope. *Journal of Low Temperature Physics*, **2003**, 131, 993-1002	1.3	12
257	Determining the spin polarization of surfaces by spin-polarized scanning tunneling spectroscopy. *Applied Physics A: Materials Science and Processing*, **2003**, 76, 873-877	2.6	18
256	A cryogenic scanning force microscope for the characterization of frozen biological samples. *Applied Physics A: Materials Science and Processing*, **2003**, 76, 893-898	2.6	2
255	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
254	Comparing the local density of states of three- and two-dimensional electron systems by low-temperature scanning tunneling spectroscopy. *Physica E: Low-Dimensional Systems and Nanostructures*, **2003**, 16, 121-128	3	1
253	Spin´orbit induced local band structure variations revealed by scanning tunnelling spectroscopy. *Journal of Physics Condensed Matter*, **2003**, 15, S679-S692	1.8	14
252	STM measurements on the InAs(110) surface directly compared with surface electronic structure calculations. *Physical Review B*, **2003**, 68,	3.3	27
251	From quantized states to percolation: Scanning tunneling spectroscopy of a strongly disordered two-dimensional electron system. *Physical Review B*, **2003**, 68,	3.3	18
250	Wave-function mapping of InAs quantum dots by scanning tunneling spectroscopy. *Physical Review Letters*, **2003**, 91, 196804	7.4	113
249	Direct measurement of the local density of states of a disordered one-dimensional conductor. *Physical Review Letters*, **2003**, 91, 076803	7.4	32

248	Spin-polarized scanning tunneling microscopy study of 360° walls in an external magnetic field. *Physical Review B*, **2003**, 67,	3.3	75
247	Correlation of dislocation and domain structure of Cr(001) investigated by spin-polarized scanning tunneling microscopy. *Physical Review B*, **2003**, 67,	3.3	33
246	Direct observation of confined states in metallic single-walled carbon nanotubes. *Applied Physics Letters*, **2003**, 83, 1011-1013	3.4	40
245	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
244	Spin-Polarized STM Investigation of Magnetic Domain Walls. *Acta Physica Polonica A*, **2003**, 104, 259-268	0.6	4
243	Surface Electronic Properties of Fe Nanoparticles on c(2□)-N/Cu(001). *Acta Physica Polonica A*, **2003**, 104, 327-335	0.6	1
242	Magnetic properties of the Cr(001) surface studied by spin-polarized scanning tunneling spectroscopy. *Journal of Magnetism and Magnetic Materials*, **2002**, 240, 64-69	2.8	20
241	Dynamic force microscopy with atomic resolution at low temperatures. *Applied Surface Science*, **2002**, 188, 245-251	6.7	21
240	Spin-resolved spectro-microscopy of magnetic nanowire arrays. *Surface Science*, **2002**, 514, 135-144	1.8	8
239	Nano-scale studies of quantum phenomena by scanning probe spectroscopy. *Vacuum*, **2002**, 65, 235-236	3.7	
238	Comment on "Damping mechanism in dynamic force microscopy". *Physical Review Letters*, **2002**, 88, 019601	7.4	34
237	Measurement of three-dimensional force fields with atomic resolution using dynamic force spectroscopy. *Applied Physics Letters*, **2002**, 81, 4428-4430	3.4	143
236	Subsurface interstitials as promoters of three-dimensional growth of Ti on Si(111): An x-ray standing wave, x-ray photoelectron spectroscopy, and atomic force microscopy investigation. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2002**, 20, 1997	2.9	2
235	Magnetization-direction-dependent local electronic structure probed by scanning tunneling spectroscopy. *Physical Review Letters*, **2002**, 89, 237205	7.4	109
234	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
233	Co on p-InAs(110): An island-induced two-dimensional electron system consisting of electron droplets. *Physical Review B*, **2002**, 65,	3.3	10
232	A low-temperature ultrahigh vacuum scanning force microscope with a split-coil magnet. *Review of Scientific Instruments*, **2002**, 73, 3508-3514	1.7	43
231	Influence of potential fluctuations on Landau quantization and spin splitting studied by low temperature scanning tunneling spectroscopy on InAs(110). *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **2002**, 20, 2032		1

230	Structural, electronic, and magnetic properties of a Mn monolayer on W(110). *Physical Review B*, **2002**, 66,	3.3	39
229	Coulomb pseudogap caused by partial localization of a three-dimensional electron system in the extreme quantum limit. *Physical Review B*, **2002**, 66,	3.3	11
228	Spin-polarized scanning tunneling microscopy with antiferromagnetic probe tips. *Physical Review Letters*, **2002**, 88, 057201	7.4	198
227	Direct observation of internal spin structure of magnetic vortex cores. *Science*, **2002**, 298, 577-80	33.3	729
226	Simulation of NC-AFM images of xenon(111). *Applied Physics A: Materials Science and Processing*, **2001**, 72, S35-S38	2.6	20
225	Dynamic low-temperature scanning force microscopy on nickel oxide (001). *Applied Physics A: Materials Science and Processing*, **2001**, 72, S27-S30	2.6	49
224	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
223	Spin-polarized scanning tunneling spectroscopy on Fe nanowires. *Applied Physics A: Materials Science and Processing*, **2001**, 72, S149-S153	2.6	10
222	The physical principles of scanning capacitance spectroscopy. *Applied Physics A: Materials Science and Processing*, **2001**, 72, S243-S251	2.6	15
221	Surface morphology of MgO (100) crystals implanted with MeV Al+ and Al2+ ions. *Applied Physics A: Materials Science and Processing*, **2001**, 73, 265-271	2.6	4
220	Imaging magnetic nanostructures by spin-polarized scanning tunneling spectroscopy. *Journal of Electron Spectroscopy and Related Phenomena*, **2001**, 114-116, 1055-1062	1.7	15
219	Nano- and atomic-scale magnetism studied by spin-polarized scanning tunneling microscopy and spectroscopy. *Solid State Communications*, **2001**, 119, 341-355	1.6	30
218	Atomic-scale magnetic domain walls in quasi-one-dimensional Fe nanostripes. *Physical Review Letters*, **2001**, 87, 127201	7.4	137
217	Local density of states of a three-dimensional conductor in the extreme quantum limit. *Physical Review Letters*, **2001**, 86, 1582-5	7.4	24
216	Nonlocality of the exchange interaction probed by scanning tunneling spectroscopy. *Physical Review B*, **2001**, 63,	3.3	17
215	Experimental evidence for edge-like states in three-dimensional electron systems. *Physical Review B*, **2001**, 64,	3.3	12
214	Magnetism of nanoscale Fe islands studied by spin-polarized scanning tunneling spectroscopy. *Physical Review B*, **2001**, 63,	3.3	40
213	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

212	Nb-induced two-dimensional electron gas on n-InAs(110): Anomalous coverage dependence. *Physical Review B*, **2001**, 63,	3.3	24
211	Experimental evidence for intra-atomic noncollinear magnetism at thin film probe tips. *Physical Review Letters*, **2001**, 86, 2142-5	7.4	36
210	Observation of magnetic hysteresis at the nanometer scale by spin-polarized scanning tunneling spectroscopy. *Science*, **2001**, 292, 2053-6	33.3	110
209	Investigation of the Mechanics of Nanocontacts Using a Vibrating Cantilever Technique **2001**, 151-169		
208	Nanomagnetische Domänen mit dem Rastertunnelmikroskop. *Physik in Unserer Zeit*, **2000**, 31, 110-114	0.1	2
207	Penetration pathways of fluorescent dyes in human hair fibres investigated by scanning near-field optical microscopy. *Journal of Microscopy*, **2000**, 200, 179-86	1.9	21
206	Low temperature scanning tunneling spectroscopy on InAs(110). *Journal of Electron Spectroscopy and Related Phenomena*, **2000**, 109, 127-145	1.7	33
205	Nano-scale studies of quantum phenomena by scanning probe spectroscopy. *Annalen Der Physik*, **2000**, 9, 895-904	2.6	1
204	Detection of doping atom distributions and individual dopants in InAs(110) by dynamic-mode scanning force microscopy in ultrahigh vacuum. *Physical Review B*, **2000**, 62, 13617-13622	3.3	23
203	Interpretation of "true atomic resolution" images of graphite (0001) in noncontact atomic force microscopy. *Physical Review B*, **2000**, 62, 6967-6970	3.3	78
202	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
201	H-induced plastic deformation of Gd thin films studied by STM. *Physical Review B*, **2000**, 61, 9964-9967	3.3	48
200	Dynamic-mode scanning force microscopy study of n-InAs(110)-(1×1) at low temperatures. *Physical Review B*, **2000**, 61, 2837-2845	3.3	62
199	Atomic resolution in scanning force microscopy: Concepts, requirements, contrast mechanisms, and image interpretation. *Physical Review B*, **2000**, 62, 13089-13097	3.3	28
198	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
197	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
196	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
195	Origin of Landau oscillations observed in scanning tunneling spectroscopy on n-InAs(110). *Physical Review B*, **2000**, 62, 7257-7263	3.3	29

194	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
193	Lattice relaxation of Gd on W(110). *Surface Science*, **2000**, 466, 89-96	1.8	11
192	Real-space imaging of two-dimensional antiferromagnetism on the atomic scale. *Science*, **2000**, 288, 1805-8	3.3	300
191	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
190	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
189	Recent progress in high-resolution magnetic imaging using scanning probe techniques. *Journal of Physics Condensed Matter*, **1999**, 11, 9387-9402	1.8	13
188	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
187	GdFe2 alloy formation studied on the atomic scale by scanning tunneling microscopy. *Physical Review B*, **1999**, 60, 16109-16113	3.3	7
186	Adsorbates on Gd(0001): A combined scanning tunneling microscopy and photoemission study. *Physical Review B*, **1999**, 59, 8195-8208	3.3	20
185	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
184	Determination of Tip-Sample Interaction Potentials by Dynamic Force Spectroscopy. *Physical Review Letters*, **1999**, 83, 4780-4783	7.4	122
183	Quantitative aspects of spin-polarized scanning tunneling spectroscopy of Gd(0001). *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **1999**, 17, 2228-2232	2.9	14
182	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
181	Imaging of sub-unit-cell structures in the contact mode of the scanning force microscope. *Physical Review B*, **1999**, 59, 1661-1664	3.3	16
180	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
179	Simultaneous imaging of the In and As sublattice on InAs(110)-(1×1) with dynamic scanning force microscopy. *Applied Surface Science*, **1999**, 140, 293-297	6.7	58
178	Calculation of the frequency shift in dynamic force microscopy. *Applied Surface Science*, **1999**, 140, 344-351	6.7	122
177	The adsorption process of hydrogen on Gd(0001). *Applied Surface Science*, **1999**, 142, 63-67	6.7	4

176	Coadsorption of H and CO on Gd(0001). *Applied Surface Science*, **1999**, 142, 428-432	6.7	4
175	GdFe2 alloy formation observed by STM. *Applied Surface Science*, **1999**, 142, 543-548	6.7	5
174	New insight into the surface magnetic properties of Gd(0001). *Applied Surface Science*, **1999**, 142, 558-562	6.7	4
173	Simultaneous observation of atomic step and domain wall structure of ultrathin Co films by magnetic force microscopy in ultrahigh vacuum. *Applied Physics A: Materials Science and Processing*, **1999**, 69, 359-361	2.6	8
172	Present and future developments of SPM systems as mass storage devices. *Applied Physics A: Materials Science and Processing*, **1999**, 68, 131-135	2.6	21
171	PREPARATION OF HIGHLY ORDERED GdFe2 ALLOYS. *Surface Review and Letters*, **1999**, 06, 741-745	1.1	2
170	Surface magnetism at the nanometer and atomic scale. *Current Opinion in Solid State and Materials Science*, **1999**, 4, 435-440	12	8
169	Growth of thin Mn films on W(110) studied by means of in-situ scanning tunnelling microscopy. *Surface Science*, **1999**, 432, 8-20	1.8	22
168	SPIN-POLARIZED VACUUM TUNNELING: CORRELATION OF ELECTRONIC AND MAGNETIC PROPERTIES ON THE NANOMETER SCALE. *Surface Review and Letters*, **1999**, 06, 591-597	1.1	4
167	Vacuum-tunneling magnetoresistance: The role of spin-polarized surface states. *Applied Physics Letters*, **1999**, 75, 124-126	3.4	23
166	Hydrogen Induced Plastic Deformation of Thin Films. *Materials Research Society Symposia Proceedings*, **1999**, 594, 75		16
165	Recent Advances in Spin-Polarized Scanning Tunneling Spectroscopy for Imaging of Magnetic Domains. *Journal of the Magnetics Society of Japan*, **1999**, 23, S1_195-200		
164	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
163	Scanning tunneling spectroscopy on n-InAs(110): Landau-level quantization and scattering of electron waves at dopant atoms. *Applied Physics A: Materials Science and Processing*, **1998**, 66, S203-S206	2.6	21
162	The velocity dependence of frictional forces in point-contact friction. *Applied Physics A: Materials Science and Processing*, **1998**, 66, S263-S267	2.6	90
161	Scanning capacitance microscope as a tool for the characterization of integrated circuits. *Applied Physics A: Materials Science and Processing*, **1998**, 66, S421-S426	2.6	13
160	Analysis of electrical breakdown failures by means of SFM-based methods. *Applied Physics A: Materials Science and Processing*, **1998**, 66, S1063-S1065	2.6	1
159	Electronic structure of Gd and Tb on W(110) in the submonolayer coverage regime studied by STM and STS. *Applied Physics A: Materials Science and Processing*, **1998**, 66, S1121-S1123	2.6	11

158	Ultra-high-vacuum magnetic force microscopy of the domain structure of ultra-thin Co films. *Applied Physics A: Materials Science and Processing*, **1998**, 66, S1209-S1212	2.6	4
157	Investigation of micromagnetism and magnetic reversal of Ni nanoparticles using a magnetic force microscope. *Physics of the Solid State*, **1998**, 40, 1163-1168	0.8	9
156	Temperature-dependent exchange splitting of the magnetic Gd(0001) surface state. *Journal of Magnetism and Magnetic Materials*, **1998**, 184, 155-165	2.8	41
155	Landau Level Quantization Measured by Scanning Tunneling Spectroscopy on n-InAs(110). *Physica Status Solidi (B): Basic Research*, **1998**, 210, 845-851	1.3	10
154	Thickness-dependent magnetic domain structures of ultrathin Co/Au(111) films studied by means of magnetic force microscopy in ultrahigh vacuum. *Applied Physics A: Materials Science and Processing*, **1998**, 66, 465-467	2.6	7
153	Hydrogen adsorption on Gd(0001). *Surface Science*, **1998**, 410, 189-199	1.8	20
152	Consequences of the stick-slip movement for the scanning force microscopy imaging of graphite. *Physical Review B*, **1998**, 57, 2477-2481	3.3	109
151	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
150	Spin-Polarized Scanning Tunneling Microscopy. *Nanoscience and Technology*, **1998**, 71-95	0.6	0
149	Magnetization switching of submicrometer Co dots induced by a magnetic force microscope tip. *Physical Review B*, **1998**, 58, 5563-5567	3.3	75
148	Origin of the ferroelectric domain contrast observed in lateral force microscopy. *Physical Review B*, **1998**, 57, 161-169	3.3	51
147	Local Electronic Properties in the Presence of Internal and External Magnetic Fields Studied by Variable-Temperature Scanning Tunneling Spectroscopy. *Japanese Journal of Applied Physics*, **1998**, 37, 3769-3773	1.4	7
146	Scattering States of Ionized Dopants Probed by Low Temperature Scanning Tunneling Spectroscopy. *Physical Review Letters*, **1998**, 81, 5616-5619	7.4	78
145	Tieftemperatur-Rastertunnelspektroskopie an InAs(110): Streuung von Elektronenwellen an Dotieratomen und Spektroskopie an Landau-Niveaus. *Physik Journal*, **1998**, 54, 423-426		
144	Determination of radial matrix elements and phase shifts in photoemission with a rotatable electric-field vector. *Physical Review B*, **1998**, 58, 9681-9684	3.3	2
143	Spin-Polarized Vacuum Tunneling into the Exchange-Split Surface State of Gd(0001). *Physical Review Letters*, **1998**, 81, 4256-4259	7.4	204
142	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
141	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

140	Neue Perspektiven: Die Tieftemperatur-Rastersonden-Spektroskopie eröffnet den direkten Zugang zu mikroskopischen Festkörpereigenschaften. *Physik Journal*, **1998**, 54, 417-417		
139	Surface State of Gd(0001) Films on W(110): Scanning Tunneling Spectroscopy Study. *Acta Physica Polonica A*, **1998**, 93, 273-280	0.6	7
138	Preparation of probe tips with well-defined spherical apexes for quantitative scanning force spectroscopy. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **1997**, 15, 1527		12
137	Atomic and local electronic structure of Gd thin films studied by STM and STS. *Physical Review B*, **1997**, 56, 3636-3639	3.3	29
136	A low-temperature ultrahigh-vacuum scanning tunneling microscope with rotatable magnetic field. *Review of Scientific Instruments*, **1997**, 68, 3806-3810	1.7	94
135	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
134	An ultrahigh vacuum scanning tunneling microscope for in situ studies of thin-film growth. *Review of Scientific Instruments*, **1997**, 68, 1455-1457	1.7	10
133	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
132	Imaging of domain-inverted gratings in LiNbO3 by electrostatic force microscopy. *Applied Physics Letters*, **1997**, 71, 146-148	3.4	29
131	Electrostatic force microscopy on ferroelectric crystals in inert gas atmosphere. *Physical Review B*, **1997**, 55, 4-7	3.3	52
130	Magnetic nanostructures studied by scanning probe microscopy and spectroscopy. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **1997**, 15, 1330		16
129	Correlation Between Nanoscale Structural, Electronic, and Magnetic Properties of Thin Films by Scanning-Probe Microscopy and Spectroscopy. *MRS Bulletin*, **1997**, 22, 31-35	3.2	8
128	Topographical structure of the domain boundary on the triglycine sulfate (010) surface. *Ferroelectrics*, **1997**, 200, 327-341	0.6	7
127	Novel 'writing' using magnetic force microscopy in ultrahigh vacuum. *IEEE Transactions on Magnetics*, **1997**, 33, 4050-4052	2	3
126	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
125	Modelling of the scan process in lateral force microscopy. *Surface Science*, **1997**, 375, 395-402	1.8	70
124	STM-study of GdW(110) at submonolayer coverages. *Surface Science*, **1997**, 385, L990-L996	1.8	15
123	Scanning-probe-based science and technology. *Proceedings of the National Academy of Sciences of the United States of America*, **1997**, 94, 12749-50	11.5	4

122	Magnetostatic interaction studied by force microscopy in ultrahigh vacuum. *Applied Physics A: Materials Science and Processing*, **1997**, 64, 353-355	2.6	7
121	Fabrication of atomic gratings based on self-organization of adsorbates with repulsive interaction. *Applied Physics A: Materials Science and Processing*, **1997**, 65, 81-83	2.6	3
120	Studies of magnetic properties of small particles by electron holography. *Applied Physics A: Materials Science and Processing*, **1997**, 65, 361-366	2.6	5
119	Investigation of ripple structures of thin polycrystalline Co films by magnetic force microscopy. *Applied Physics A: Materials Science and Processing*, **1997**, 65, 511-515	2.6	4
118	Surface electronic structure of Gd(0001) films on W(110). *Applied Physics A: Materials Science and Processing*, **1997**, 65, 603-606	2.6	9
117	Stick-slip movement of a scanned tip on a graphite surface in scanning force microscopy. *Zeitschrift F Physik B-Condensed Matter*, **1997**, 104, 295-297		9
116	Friction Force Spectroscopy in the Low-Load Regime with Well-Defined Tips **1997**, 233-238		15
115	Simulation of the Scan Process in Friction Force Microscopy **1997**, 379-384		
114	Nanomechanical investigations and modifications of thin films based on scanning force methods. *Nanotechnology*, **1996**, 7, 346-350	3.4	9
113	Domain structure of Co/Pt multilayers studied by magnetic force microscopy. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **1996**, 14, 1214		2
112	Application of scanning probe methods for electronic and magnetic device fabrication, characterization, and testing. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **1996**, 14, 3625		6
111	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
110	Simulation of a scanned tip on a NaF(001) surface in friction force microscopy. *Europhysics Letters*, **1996**, 36, 19-24	1.6	58
109	Structure of cross-tie wall in thin Co films resolved by magnetic force microscopy. *Applied Physics Letters*, **1996**, 68, 3635-3637	3.4	42
108	Fabrication of nano-dot- and nano-ring-arrays by nanosphere lithography. *Applied Physics A: Materials Science and Processing*, **1996**, 63, 617-619	2.6	4
107	Fabrication of atomic wires based on self-organization. *Applied Physics A: Materials Science and Processing*, **1996**, 63, 303-304	2.6	2
106	Chemical-specific imaging of multicomponent metal surfaces on the nanometer scale by scanning tunneling spectroscopy. *Applied Physics A: Materials Science and Processing*, **1996**, 62, 571-573	2.6	9
105	Nanofabrication of weak links based on scanning force methods. *Applied Physics A: Materials Science and Processing*, **1996**, 62, 289-292	2.6	3

104	Rapid communication Fabrication of nano-dot- and nano-ring-arrays by nanosphere lithography. *Applied Physics A: Materials Science and Processing*, **1996**, 63, 617-619	2.6	7
103	Quantitative analysis of lateral force microscopy experiments. *Review of Scientific Instruments*, **1996**, 67, 2560-2567	1.7	129
102	Tunnelspektroskopie vom Einzelatom zum Festk□per. *Physik Journal*, **1996**, 52, 551-554		5
101	M□ller, Florath: Die Entlassung □Robert Havemann und die Akademie der Wissenschaften 1965/66/Whitaker: Einstein, Bohr and the Quantum Dilemma/Wick: The Infamous Boundary/Hartnagel, Dawar: Semiconducting Transparent Thin Films/Atkins: Physikalische Chemie/Atkins, Trapp: Arbeitsbuch Physikalische Chemie/Magonov, Whangbo: Surface Analysis		
100	Micromagnetic properties and magnetization switching of single domain Co dots studied by magnetic force microscopy. *Zeitschrift F□ Physik B-Condensed Matter*, **1996**, 101, 1-2		19
99	Distance-dependent STM-study of the W(110)/C-R(15□) surface. *Zeitschrift F□ Physik B-Condensed Matter*, **1996**, 101, 103-107		10
98	Nanostructural and local electronic properties of Fe/W(110) correlated by scanning tunneling spectroscopy. *Physical Review B*, **1996**, 54, R8385-R8388	3.3	35
97	Load-dependent topographic and friction studies of individual ion tracks in layered materials by scanning force microscopy and lateral force microscopy. *Physical Review B*, **1996**, 53, R16180-R16183	3.3	5
96	Issues of atomic-resolution structure and chemical analysis by scanning probe microscopy and spectroscopy. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **1996**, 14, 1161-1167	2.9	21
95	Friction in the Low-Load Regime: Studies on the Pressure and Direction Dependence of Frictional Forces by Means of Friction Force Microscopy **1996**, 369-402		9
94	Scanning Tunneling Microscopy and Atomic Force Microscopy on Charge Density Wave and Related Materials. *NATO ASI Series Series B: Physics*, **1996**, 229-239		
93	Physik in unserer Zeit auf der Nanometerskala. *Physik in Unserer Zeit*, **1995**, 26, 206-216	0.1	6
92	Determination of miller indices of side faces of small crystallites from scanning force microscopy angle measurements. *Surface and Interface Analysis*, **1995**, 23, 409-415	1.5	3
91	Low-load friction behavior of epitaxial C60 monolayers. *Zeitschrift F□ Physik B-Condensed Matter*, **1995**, 99, 1-2		9
90	Low-load friction behavior of epitaxial C60 monolayers under Hertzian contact. *Physical Review B*, **1995**, 52, 14976-14984	3.3	88
89	Growth of C60 thin films on GeS(001) studied by scanning force microscopy. *Physical Review B*, **1995**, 52, 5967-5976	3.3	33
88	Size Dependence of the Curie Temperature of Separate Nickel Particles Studied by Interference Electron Microscopy. *Europhysics Letters*, **1995**, 31, 567-572	1.6	20
87	Recent Advances in Nanostructural Investigations and Modifications of Solid Surfaces by Scanning Probe Methods. *Japanese Journal of Applied Physics*, **1995**, 34, 3388	1.4	12

86	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
85	Bubble domains in garnet films studied by magnetic force microscopy. *Journal of Applied Physics*, **1995**, 78, 6324-6326	2.5	5
84	Magnetic force microscopy study of magnetic stray-field effects due to mechanical surface modifications of patterned Permalloy thin films. *Applied Physics A: Materials Science and Processing*, **1995**, 61, 93-97	2.6	1
83	Scanning capacitance microscopy and spectroscopy applied to local charge modifications and characterization of nitride-oxide-silicon heterostructures. *Applied Physics A: Materials Science and Processing*, **1995**, 61, 357-362	2.6	4
82	Anisotropy of sliding friction on the triglycine sulfate (010) surface. *Applied Physics A: Materials Science and Processing*, **1995**, 61, 525-533	2.6	68
81	Imaging and tunneling spectroscopy of individual iron adsorbates at room temperature. *Zeitschrift F Physik B-Condensed Matter*, **1995**, 99, 143-144		9
80	Scanning capacitance microscopy and spectroscopy applied to local charge modifications and characterization of nitride?oxide?silicon heterostructures. *Applied Physics A: Materials Science and Processing*, **1995**, 61, 357-362	2.6	4
79	Anisotropy of sliding friction on the triglycine sulfate (010) surface **1995**, 61, 525		2
78	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
77	Wigner glass on the magnetite (001) surface observed by scanning tunneling microscopy with a ferromagnetic tip. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **1994**, 12, 2118		17
76	Scanning and friction-force microscopy of thin C60 films on GeS(001). *Applied Physics A: Solids and Surfaces*, **1994**, 59, 11-15		17
75	Growth stages of YSZ-buffer layers and YBa2Cu3O7 thin films on silicon substrates studied by scanning probe microscopy. *Applied Physics A: Solids and Surfaces*, **1994**, 59, 57-62		4
74	Local transformation of C60 fullerite into a new amorphous phase of carbon using a scanning tunneling microscope. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **1994**, 12, 2136		2
73	STM on Layered Materials. *Springer Series in Surface Sciences*, **1994**, 131-179	0.4	4
72	Scanning Probe Microscopy and Spectroscopy: Methods and Applications **1994**,		746
71	Atomic surface structure of Fe3O4(001) in different preparation stages studied by scanning tunneling microscopy. *Surface Science*, **1993**, 285, 1-14	1.8	113
70	Charge freezing and surface anisotropy on magnetite (100). *Journal of Applied Physics*, **1993**, 73, 6742-6744	2.5	40
69	Local structure and dynamics of a segregated c(2 x 2) sulfur layer on Pd(001) studied by scanning tunneling microscopy. *Physical Review B*, **1993**, 47, 9963-9966	3.3	14

68	Determination of C60/C70 ratios in fullerene mixtures and film characterization by scanning tunneling microscopy. *Applied Physics A: Materials Science and Processing*, **1993**, 56, 197-205	2.6	10
67	Magnetic-Sensitive Scanning Probe Microscopy. *NATO ASI Series Series B: Physics*, **1993**, 45-54		0
66	Atomic-Scale Imaging and Modification of Spins Using a Magnetic-Sensitive Scanning Tunneling Microscope **1993**, 65-73		
65	Recent Developments in Scanning Tunneling Microscopy. *Acta Physica Polonica A*, **1993**, 84, 419-421	0.6	
64	Comparative study of different tip materials for surface modification by the scanning tunneling microscope. *Nanotechnology*, **1992**, 3, 77-83	3.4	6
63	Progress towards spin-polarized scanning tunneling microscopy. *Journal of Applied Physics*, **1992**, 71, 5489-5499	2.5	50
62	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
61	Topographic and magnetic-sensitive scanning tunneling microscope study of magnetite. *Science*, **1992**, 255, 583-6	33.3	166
60	Scanning tunneling microscopy study of the degree of dimer asymmetry on the Si(001)-(2 □1) surface. *Surface Science*, **1992**, 274, 93-98	1.8	15
59	Atomic-resolution surface studies of binary and ternary alkali-metal-graphite intercalation compounds by scanning tunneling microscopy. *Physical Review B*, **1992**, 45, 1829-1837	3.3	24
58	Scanning tunneling microscopy study of granular (MTl1.5)3C60 (M = K, Rb). *Physica B: Condensed Matter*, **1992**, 182, 223-226	2.8	1
57	Fabrication of nanometer structures using STM. *Applied Surface Science*, **1992**, 54, 271-277	6.7	45
56	Recent advances in spin-polarized scanning tunneling microscopy. *Ultramicroscopy*, **1992**, 42-44, 338-344	3.1	5
55	Scanning tunneling microscopy study of ternary alkali-metal graphite intercalation compounds. *Ultramicroscopy*, **1992**, 42-44, 624-629	3.1	5
54	STM on doped and undoped hydrogenated amorphous and microcrystalline silicon films. *Ultramicroscopy*, **1992**, 42-44, 1398-1402	3.1	1
53	Magnetic imaging at the atomic level. *European Physical Journal B*, **1992**, 86, 1-2	1.2	22
52	Contributions of Scanning Tunneling Microscopy for Probing and Manipulating Electronic Properties in Low Dimensions. *Springer Series in Solid-state Sciences*, **1992**, 97-107	0.4	1
51	STM on Layered Materials. *Springer Series in Surface Sciences*, **1992**, 131-179	0.4	15

50	STM and AFM Studies of Layered Materials: General. *Physics and Chemistry of Materials With Low-dimensional Structures*, **1992**, 1-26		2
49	Spin-Polarized Scanning Tunneling Microscopy (SPSTM). *Materials Research Society Symposia Proceedings*, **1991**, 231, 37		3
48	Recent advances in scanning tunneling microscopy involving magnetic probes and samples. *Applied Physics A: Solids and Surfaces*, **1991**, 53, 349-355		27
47	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
46	Laser and thermal annealed Si(111) and Si(001) surfaces studied by scanning tunneling microscopy. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **1991**, 9, 677		12
45	From Point Defects to Amorphous Structures: Atomic Resolution Studies of Semiconductor Surfaces by Scanning Tunneling Microscopy (STM). *Materials Research Society Symposia Proceedings*, **1990**, 183, 237		
44	Scanning tunneling microscopy with spin-polarized electrons. *European Physical Journal B*, **1990**, 80, 5-6	1.2	8
43	Scanning tunneling microscopy on laser- and thermal-annealed Si(111): transitions from 7 7 reconstructed to disordered surface structures. *Ultramicroscopy*, **1990**, 32, 291-295	3.1	4
42	An ultrahigh vacuum scanning tunneling microscope for surface science studies. *Vacuum*, **1990**, 41, 386-388	3.8	8
41	Advances in STM Design and Instrumentation. *Europhysics News*, **1990**, 21, 72-73	0.2	2
40	Scanning Tunnelling Microscopy Study of Si(111) 7 7 in the Presence of Multiple-Step Edges. *Europhysics Letters*, **1990**, 12, 57-61	1.6	24
39	Atomic-Scale Surface Investigations of K 0.3 MoO 3 (Blue Bronze) by Scanning Tunneling Microscopy. *Europhysics Letters*, **1990**, 12, 241-245	1.6	12
38	Different response of atomic force microscopy and scanning tunneling microscopy to charge density waves. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **1990**, 8, 495-499	2.9	21
37	Local symmetry breaking in stage-1 alkali-metal-graphite intercalation compounds studied by scanning tunneling microscopy. *Physical Review B*, **1990**, 42, 1848-1851	3.3	21
36	An ultrahigh vacuum scanning tunneling microscope for the investigation of clean surfaces. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **1990**, 8, 339-344	2.9	8
35	Hexagonal and nonhexagonal superlattice structures on stage-1 alkali metal graphite intercalation compounds studied by scanning tunnelling microscopy. *Synthetic Metals*, **1990**, 38, 157-167	3.6	19
34	Observation of vacuum tunneling of spin-polarized electrons with the scanning tunneling microscope. *Physical Review Letters*, **1990**, 65, 247-250	7.4	450
33	Surface step and defect structure of Cr(001) studied by scanning tunneling microscopy. *Surface Science*, **1990**, 235, 1-4	1.8	15

32	Local structure of the Si(100) surface studied by scanning tunneling microscopy. *Surface Science*, **1990**, 232, 1-5	1.8	42
31	Surface structure of donor graphite intercalation compounds by scanning tunneling microscopy. *Physical Review B*, **1989**, 39, 11135-11138	3.3	33
30	Different Response of Atomic Force Microscopy and Scanning Tunnelling Microscopy to Charge Density Waves. *Europhysics Letters*, **1989**, 9, 695-700	1.6	34
29	Direct writing of nanometer scale structures on glassy metals by the scanning tunneling microscope. *European Physical Journal B*, **1989**, 77, 281-286	1.2	26
28	Surface structure of graphite intercalation compounds resolved in real space by scanning tunneling microscopy. *Synthetic Metals*, **1989**, 34, 175-185	3.6	7
27	Investigation of the microstructure of an Fe91Zr9 catalyst prepared from the amorphous alloy. *Materials Science and Engineering*, **1988**, 99, 501-505		17
26	Scanning tunneling and scanning electron microscopy on high-Tc superconductors. *Physica C: Superconductivity and Its Applications*, **1988**, 153-155, 1000-1001	1.3	13
25	Scanning tunneling and scanning electron microscopy investigations of nonuniform surfaces. *Ultramicroscopy*, **1988**, 25, 129-133	3.1	1
24	Physical properties of icosahedral and glassy Pd?U?Si alloys. *Materials Science and Engineering*, **1988**, 99, 357-360		6
23	Topography and local modification of the HoBa2Cu3O7−x(001) surface using scanning tunneling microscopy. *Applied Physics Letters*, **1988**, 53, 2447-2449	3.4	28
22	Icosahedral alloys studied by scanning tunneling microscopy. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **1988**, 6, 529-530	2.9	3
21	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
20	Summary Abstract: Dipalmitoylphosphatidylcholine–Langmuir–Blodgett films on various substrates [Si(111), Au, Sn] studied by scanning tunneling microscopy. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **1988**, 6, 358-359	2.9	16
19	Data processing for scanning tunneling microscopy. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **1988**, 6, 393-397	2.9	6
18	Hydrogenated amorphous silicon studied by scanning tunneling microscopy. *Journal of Applied Physics*, **1988**, 63, 4515-4517	2.5	25
17	STM and AFM investigations of high-Tc superconductors. *Journal of Microscopy*, **1988**, 152, 399-405	1.9	5
16	Donor graphite intercalation compounds studied with a high stability STM. *Journal of Microscopy*, **1988**, 152, 509-514	1.9	18
15	The Structure of Rapidly Quenched Metals as Studied by Scanning Tunneling Microscopy*. *Zeitschrift Fur Physikalische Chemie*, **1988**, 157, 139-143	3.1	8

14	Physical Properties of Icosahedral and Glassy PdSi Alloys **1988**, 357-360		
13	Surface modification in the nanometer range by the scanning tunneling microscope. *Perspectives in Condensed Matter Physics*, **1988**, 258-260		
12	Surface Structure of Metallic Glasses Studied by Scanning Tunneling Microscopy. *Springer Series in Surface Sciences*, **1988**, 595-600	0.4	
11	Investigation of the Microstructure of an Fe91Zr9 Catalyst Prepared from the Amorphous Alloy **1988**, 501-505		
10	Nanometer scale structure fabrication with the scanning tunneling microscope. *Applied Physics Letters*, **1987**, 51, 244-246	3.4	71
9	Observation of magnetic forces by the atomic force microscope. *Journal of Applied Physics*, **1987**, 62, 4293-4295	2.5	302
8	Local tunneling barrier height images obtained with the scanning tunneling microscope. *Surface Science*, **1987**, 189-190, 24-28	1.8	40
7	Application of scanning tunneling microscopy to disordered systems. *Surface Science*, **1987**, 181, 46-54	1.8	38
6	Scanning tunneling microscopy of a thin film of Pd2Si on a Si(100) substrate. *Surface Science*, **1987**, 181, 313-323	1.8	5
5	Physical properties of icosahedral and glassy PdSi alloys. *European Physical Journal B*, **1987**, 68, 313-324	1.2	19
4	Ammonia synthesis over a supported iron catalyst prepared from an amorphous iron-zirconium precursor II. Surface morphological changes during the genesis of the catalyst. *Journal of Catalysis*, **1987**, 108, 452-466	7.3	25
3	The effect of argon ion sputtering on a polycrystalline film of Pd2Si on a Si substrate studied by scanning tunneling microscopy and photoelectron spectroscopy. *Nuclear Instruments & Methods in Physics Research B*, **1986**, 18, 644-650	1.2	
2	STM activity at the University of Basel. *IBM Journal of Research and Development*, **1986**, 30, 500-508	2.5	14
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