Harald Brune

List of Publications by Year in Descending Order

238 papers	17,276 citations	66 h-index	127 g-index
245 ext. papers	18,385 ext. citations	8.2 avg, IF	6.35 L-index

#	Paper	IF	Citations
238	Asymmetric Elimination Reaction on Chiral Metal Surfaces. *Advanced Materials*, **2021**, e2104481	24	0
237	Asymmetric azide-alkyne Huisgen cycloaddition on chiral metal surfaces. *Communications Chemistry* , **2021**, 4,	6.3	1
236	Engineering atomic-scale magnetic fields by dysprosium single atom magnets. *Nature Communications*, **2021**, 12, 4179	17.4	9
235	Correlation between Electronic Configuration and Magnetic Stability in Dysprosium Single Atom Magnets. *Nano Letters*, **2021**, 21, 8266-8273	11.5	4
234	Mapping Orbital-Resolved Magnetism in Single Lanthanide Atoms. *ACS Nano*, **2021**, 15, 16162-16171	16.7	2
233	Molecular motor crossing the frontier of classical to quantum tunneling motion. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 14838-14842	11.5	17
232	Near-Enantiopure Trimerization of 9-Ethynylphenanthrene on a Chiral Metal Surface. *Angewandte Chemie - International Edition*, **2020**, 59, 18179-18183	16.4	3
231	Unconventional Spin Relaxation Involving Localized Vibrational Modes in Ho Single-Atom Magnets. *Physical Review Letters*, **2020**, 124, 077204	7.4	13
230	Self-Assembly of Nanoalloys **2020**, 451-487		
229	Measuring the Intra-Atomic Exchange Energy in Rare-Earth Adatoms. *Physical Review X*, **2020**, 10,	9.1	3
228	Near-Enantiopure Trimerization of 9-Ethynylphenanthrene on a Chiral Metal Surface. *Angewandte Chemie*, **2020**, 132, 18336-18340	3.6	1
227	Upgrade of a low-temperature scanning tunneling microscope for electron-spin resonance. *Review of Scientific Instruments*, **2019**, 90, 013706	1.7	19
226	Large effect of metal substrate on magnetic anisotropy of Co on hexagonal boron nitride. *New Journal of Physics*, **2019**, 21, 073053	2.9	6
225	Understanding the Superior Stability of Single-Molecule Magnets on an Oxide Film. *Advanced Science*, **2019**, 6, 1901736	13.6	23
224	Magnetic properties of on-surface synthesized single-ion molecular magnets.. *RSC Advances*, **2019**, 9, 34421-34429	3.7	4
223	Quantum state manipulation of single atom magnets using the hyperfine interaction. *Physical Review B*, **2019**, 100,	3.3	9
222	Influence of free charge carrier density on the magnetic behavior of (Zn,Co)O thin film studied by Field Effect modulation of magnetotransport. *Scientific Reports*, **2019**, 9, 149	4.9	8

221	Thermal and Magnetic-Field Stability of Holmium Single-Atom Magnets. *Physical Review Letters*, **2018**, 121, 027201	7.4	33
220	Magnetic properties of single rare-earth atoms on graphene/Ir(111). *Physical Review B*, **2018**, 98,	3.3	9
219	Optical properties of size selected neutral Ag clusters: electronic shell structures and the surface plasmon resonance. *Nanoscale*, **2018**, 10, 20821-20827	7.7	21
218	Antiferromagnetic MnNi tips for spin-polarized scanning probe microscopy. *Review of Scientific Instruments*, **2018**, 89, 123706	1.7	5
217	Spin Excitations in a 4f-3d Heterodimer on MgO. *Physical Review Letters*, **2018**, 121, 257202	7.4	2
216	Assembly of Robust Holmium-Directed 2D Metal-Organic Coordination Complexes and Networks on the Ag(100) Surface. *ACS Nano*, **2018**, 12, 11552-11560	16.7	9
215	Direct capture and electrostatic repulsion in the self-assembly of rare-earth atom superlattices on graphene. *Physical Review B*, **2018**, 98,	3.3	9
214	Epitaxy-Induced Assembly and Enantiomeric Switching of an On-Surface Formed Dinuclear Organocobalt Complex. *ACS Nano*, **2017**, 11, 1347-1359	16.7	7
213	Two-Orbital Kondo Screening in a Self-Assembled Metal-Organic Complex. *ACS Nano*, **2017**, 11, 2675-2681	16.7	12
212	Sm cluster superlattice on graphene/Ir(111). *New Journal of Physics*, **2017**, 19, 123021	2.9	5
211	Intense fluorescence of Au. *Journal of Chemical Physics*, **2017**, 147, 074301	3.9	14
210	Adsorption sites of individual metal atoms on ultrathin MgO(100) films. *Physical Review B*, **2017**, 96,	3.3	15
209	4f occupancy and magnetism of rare-earth atoms adsorbed on metal substrates. *Physical Review B*, **2017**, 96,	3.3	21
208	Uniaxial 2D Superlattice of Fe Molecular Magnets on Graphene. *Nano Letters*, **2017**, 17, 7177-7182	11.5	20
207	Single-Molecule Magnets: Giant Hysteresis of Single-Molecule Magnets Adsorbed on a Nonmagnetic Insulator (Adv. Mater. 26/2016). *Advanced Materials*, **2016**, 28, 5142	24	6
206	Magnetoelectroelastic control of magnetism in an artificial multiferroic. *Physical Review B*, **2016**, 94,	3.3	14
205	Superlattice of Single Atom Magnets on Graphene. *Nano Letters*, **2016**, 16, 7610-7615	11.5	53
204	Giant apparent lattice distortions in STM images of corrugated sp2-hybridised monolayers. *New Journal of Physics*, **2016**, 18, 103027	2.9	10

203	Complex Magnetic Exchange Coupling between Co Nanostructures and Ni(111) across Epitaxial Graphene. *ACS Nano*, **2016**, 10, 1101-7	16.7	23
202	Out-of-Plane Alignment of Er(trensal) Easy Magnetization Axes Using Graphene. *ACS Nano*, **2016**, 10, 2887-92	16.7	22
201	Giant Hysteresis of Single-Molecule Magnets Adsorbed on a Nonmagnetic Insulator. *Advanced Materials*, **2016**, 28, 5195-9	24	108
200	Magnetic Hysteresis in Er Trimers on Cu(111). *Nano Letters*, **2016**, 16, 3475-81	11.5	20
199	Magnetic remanence in single atoms. *Science*, **2016**, 352, 318-21	33.3	193
198	Surface aligned magnetic moments and hysteresis of an endohedral single-molecule magnet on a metal. *Physical Review Letters*, **2015**, 114, 087201	7.4	49
197	Controlling the spin of co atoms on pt(111) by hydrogen adsorption. *Physical Review Letters*, **2015**, 114, 106807	7.4	46
196	Highly enantioselective adsorption of small prochiral molecules on a chiral intermetallic compound. *Angewandte Chemie - International Edition*, **2015**, 54, 3902-6	16.4	17
195	Restoring the Co magnetic moments at interfacial Co-porphyrin arrays by site-selective uptake of iron. *ACS Nano*, **2015**, 9, 3605-16	16.7	17
194	Competing Interactions in the Self-Assembly of NC-Ph3-CN Molecules on Cu(111). *Journal of Physical Chemistry C*, **2015**, 119, 25442-25448	3.8	16
193	Temperature-dependent self-assembly of NC-Ph5-CN molecules on Cu(111). *Journal of Chemical Physics*, **2015**, 142, 101928	3.9	29
192	Multiplet features and magnetic properties of Fe on Cu(111): From single atoms to small clusters. *Physical Review B*, **2015**, 91,	3.3	20
191	Interfacial properties of LaMnO3/LaNiO3 superlattices grown along (001) and (111) orientations. *Physical Review B*, **2015**, 92,	3.3	35
190	Comparing XMCD and DFT with STM spin excitation spectroscopy for Fe and Co adatoms on Cu2N/Cu(100). *Physical Review B*, **2015**, 92,	3.3	14
189	Origin of Perpendicular Magnetic Anisotropy and Large Orbital Moment in Fe Atoms on MgO. *Physical Review Letters*, **2015**, 115, 237202	7.4	71
188	Highly Enantioselective Adsorption of Small Prochiral Molecules on a Chiral Intermetallic Compound. *Angewandte Chemie*, **2015**, 127, 3974-3978	3.6	7
187	CHEMISTRY. In the wake of collision. *Science*, **2015**, 350, 1321	33.3	1
186	Reduction of Mn19 Coordination Clusters on a Gold Surface. *Journal of Physical Chemistry C*, **2015**, 119, 3550-3555	3.8	13

185	Reaching the magnetic anisotropy limit of a 3d metal atom. *Science*, **2014**, 344, 988-92	33.3	253
184	Assessing dystrophies and other muscle diseases at the nanometer scale by atomic force microscopy. *Nanomedicine*, **2014**, 9, 393-406	5.6	21
183	Tailoring the magnetism of Co atoms on graphene through substrate hybridization. *Physical Review Letters*, **2014**, 113, 177201	7.4	50
182	Resonant-enhanced spectroscopy of molecular rotations with a scanning tunneling microscope. *ACS Nano*, **2014**, 8, 7099-105	16.7	23
181	Interlayer exchange coupling in ordered Fe nanocluster arrays grown on Al2O3/Ni3Al(111). *Physical Review B*, **2014**, 89,	3.3	12
180	Reaction-induced cluster ripening and initial size-dependent reaction rates for CO oxidation on Pt(n)/TiO2(110)-(1×1). *Journal of the American Chemical Society*, **2014**, 136, 8702-7	16.4	60
179	Adsorption of small hydrocarbons on the three-fold PdGa surfaces: the road to selective hydrogenation. *Journal of the American Chemical Society*, **2014**, 136, 11792-8	16.4	67
178	Ensemble Effect Evidenced by CO Adsorption on the 3-Fold PdGa Surfaces. *Journal of Physical Chemistry C*, **2014**, 118, 12260-12265	3.8	30
177	Exchange interaction of strongly anisotropic tripodal erbium single-ion magnets with metallic surfaces. *ACS Nano*, **2014**, 8, 4662-71	16.7	32
176	Magnetism and morphology of Co nanocluster superlattices on GdAu2/Au(111)(√13×√13). *Physical Review B*, **2014**, 90,	3.3	7
175	Epitaxial Growth of Thin Films **2014**, 421-492		11
174	Magnetism of Ho and Er atoms on close-packed metal surfaces. *Physical Review Letters*, **2014**, 113, 237201	7.4	46
173	Magnetization reversal mechanism of ramified and compact Co islands on Pt(111). *Physical Review B*, **2014**, 90,	3.3	4
172	X-ray induced demagnetization of single-molecule magnets. *Applied Physics Letters*, **2014**, 105, 032411	3.4	29
171	Self-assembly of nanoalloys **2013**, 373-405		1
170	XMCD study of the magnetic exchange coupling in a fluoride-bridged Dy-Cr molecular cluster. *Journal of the Korean Physical Society*, **2013**, 62, 1368-1371	0.6	5
169	Strain-dependent magnetic configurations in manganite-titanate heterostructures probed with soft X-ray techniques. *European Physical Journal B*, **2013**, 86, 1	1.2	16
168	Quantifying residual hydrogen adsorption in low-temperature STMs. *Surface Science*, **2013**, 615, 80-87	1.8	30

167	Magnetic moment and anisotropy of individual Co atoms on graphene. *Physical Review Letters*, **2013**, 111, 236801	7.4	97
166	Low temperature ferromagnetism in chemically ordered FeRh nanocrystals. *Physical Review Letters*, **2013**, 110, 087207	7.4	29
165	Distinction of nuclear spin states with the scanning tunneling microscope. *Physical Review Letters*, **2013**, 111, 175303	7.4	44
164	Formation of fe cluster superlattice in a metal-organic quantum-box network. *Physical Review Letters*, **2013**, 110, 086102	7.4	64
163	Combined ARPES and STM study of Pb/Au(111) Moir structure: One overlayer, two symmetries. *Physical Review B*, **2013**, 87,	3.3	9
162	Origin of interface magnetism in BiMnO3/SrTiO3 and LaAlO3/SrTiO3 heterostructures. *Physical Review Letters*, **2013**, 111, 087204	7.4	138
161	Structural and electronic properties of the Bi/Au(110) surface. *Physical Review B*, **2013**, 88,	3.3	3
160	Dynamics at Surfaces **2013**, 743-814		
159	Atomic and Molecular Magnets on Surfaces **2013**, 447-470		5
158	X-Treme beamline at SLS: X-ray magnetic circular and linear dichroism at high field and low temperature. *Journal of Synchrotron Radiation*, **2012**, 19, 661-74	2.4	113
157	Direct observation of a ferri-to-ferromagnetic transition in a fluoride-bridged 3d4f molecular cluster. *Chemical Science*, **2012**, 3, 1024-1032	9.4	70
156	Electronic states of moir modulated Cu films. *Journal of Physics Condensed Matter*, **2012**, 24, 335502	1.8	4
155	Isolated Pd Sites on the Intermetallic PdGa(111) and PdGa($bar 1$$bar 1$$bar 1$) Model Catalyst Surfaces. *Angewandte Chemie*, **2012**, 124, 9473-9477	3.6	15
154	Isolated Pd sites on the intermetallic PdGa(111) and PdGa(111) model catalyst surfaces. *Angewandte Chemie - International Edition*, **2012**, 51, 9339-43	16.4	39
153	Effect of the TiO2 reduction state on the catalytic CO oxidation on deposited size-selected Pt clusters. *Journal of the American Chemical Society*, **2012**, 134, 3445-50	16.4	125
152	X-ray magnetic circular dichroism (XMCD) study of a methoxide-bridged Dy(III)-Cr(III) cluster obtained by fluoride abstraction from cis-[Cr(III)F2(phen)2](+). *Journal of Physical Chemistry A*, **2012**, 116, 7842-7	2.8	23
151	Two distinct phases of bilayer graphene films on Ru(0001). *ACS Nano*, **2012**, 6, 9299-304	16.7	18
150	Large band gap opening between graphene Dirac cones induced by Na adsorption onto an Ir superlattice. *ACS Nano*, **2012**, 6, 199-204	16.7	63

149	Atomic-scale engineering of magnetic anisotropy of nanostructures through interfaces and interlines. *Nature Communications*, **2012**, 3, 1313	17.4	42
148	An endohedral single-molecule magnet with long relaxation times: DySc2N@C80. *Journal of the American Chemical Society*, **2012**, 134, 9840-3	16.4	159
147	Ring state for single transition metal atoms on boron nitride on Rh(111). *Physical Review Letters*, **2012**, 109, 066101	7.4	31
146	Optimizing long-range order, band gap, and group velocities for graphene on close-packed metal surfaces. *Journal of Physics Condensed Matter*, **2012**, 24, 314203	1.8	5
145	Interface-confined mixing and buried partial dislocations for Ag bilayer on Pt(111). *Physical Review B*, **2012**, 86,	3.3	10
144	Overcoming the Strong Metal□Support Interaction State: CO Oxidation on TiO2(110)-Supported Pt Nanoclusters. *ACS Catalysis*, **2011**, 1, 385-389	13.1	85
143	An experimental setup combining a highly sensitive detector for reaction products with a mass-selected cluster source and a low-temperature STM for advanced nanocatalysis measurements. *European Physical Journal D*, **2011**, 63, 241-249	1.3	10
142	Self-Assembled Nanometer-Scale Magnetic Networks on Surfaces: Fundamental Interactions and Functional Properties. *Advanced Functional Materials*, **2011**, 21, 1212-1228	15.6	42
141	Surface-Confined Self-Assembly of Di-carbonitrile Polyphenyls. *Advanced Functional Materials*, **2011** , 21, 1230-1240	15.6	54
140	Surface Chemistry: Surface-Confined Self-Assembly of Di-carbonitrile Polyphenyls (Adv. Funct. Mater. 7/2011). *Advanced Functional Materials*, **2011**, 21, 1229-1229	15.6	
139	Complex interplay and hierarchy of interactions in two-dimensional supramolecular assemblies. *ACS Nano*, **2011**, 5, 457-69	16.7	44
138	Ag-coverage-dependent symmetry of the electronic states of the Pt(111)-Ag-Bi interface: The ARPES view of a structural transition. *Physical Review B*, **2011**, 84,	3.3	10
137	Magnetic anisotropy of Fe and Co adatoms and Fe clusters magnetically decoupled from Ni3Al(111) by an alumina bilayer. *Physical Review B*, **2010**, 81,	3.3	19
136	Magnetocrystalline anisotropy energy of Co and Fe adatoms on the (111) surfaces of Pd and Rh. *Physical Review B*, **2010**, 81,	3.3	74
135	Surface-Confined Metal□Organic Nanostructures from Co-Directed Assembly of Linear Terphenyl-dicarbonitrile Linkers on Ag(111). *Journal of Physical Chemistry C*, **2010**, 114, 15602-15606	3.8	42
134	Highly anisotropic Dirac cones in epitaxial graphene modulated by an island superlattice. *Physical Review Letters*, **2010**, 105, 246803	7.4	109
133	Magnetic anisotropy of Fe and Co ultrathin films deposited on Rh(111) and Pt(111) substrates: An experimental and first-principles investigation. *Physical Review B*, **2010**, 82,	3.3	93
132	Nitrogen fixation at passivated Fe nanoclusters supported by an oxide surface: Identification of viable reaction routes using density functional calculations. *Physical Review B*, **2009**, 80,	3.3	2

131	Thermal dynamics at surfaces. *Annalen Der Physik*, **2009**, 18, 675-698	2.6	16
130	Supramolecular control of the magnetic anisotropy in two-dimensional high-spin Fe arrays at a metal interface. *Nature Materials*, **2009**, 8, 189-93	27	242
129	Stabilization of bimolecular islands on ultrathin NaCl films by a vicinal substrate. *Surface Science*, **2009**, 603, 2294-2299	1.8	18
128	High resolution in situ magneto-optic Kerr effect and scanning tunneling microscopy setup with all optical components in UHV. *Review of Scientific Instruments*, **2009**, 80, 023902	1.7	16
127	Self-Assembly of Nanoporous Chiral Networks with Varying Symmetry from Sexiphenyl-dicarbonitrile on Ag(111). *Journal of Physical Chemistry C*, **2009**, 113, 17851-17859	3.8	63
126	High-quality 2D metal-organic coordination network providing giant cavities within mesoscale domains. *Journal of the American Chemical Society*, **2009**, 131, 3881-3	16.4	129
125	Magnetism of individual atoms adsorbed on surfaces. *Surface Science*, **2009**, 603, 1812-1830	1.8	98
124	Giant Spin-Polarization and Magnetic Anisotropy of Nanostructures at Surfaces. *Springer Proceedings in Physics*, **2009**, 123-132	0.2	1
123	The role of magnetic anisotropy in the Kondo effect. *Nature Physics*, **2008**, 4, 847-850	16.2	264
122	Chapter 15 Creating Metal Nanostructures at Metal Surfaces Using Growth Kinetics. *Handbook of Surface Science*, **2008**, 761-786		7
121	Chiral kagom□lattice from simple ditopic molecular bricks. *Journal of the American Chemical Society* , **2008**, 130, 11778-82	16.4	168
120	High magnetic moments and anisotropies for FexCo1□ monolayers on Pt(111). *Physical Review B*, **2008**, 78,	3.3	63
119	Using metal-organic templates to steer the growth of Fe and Co nanoclusters. *Applied Physics Letters*, **2008**, 93, 243102	3.4	43
118	Role of hydrogen in giant spin polarization observed on magnetic nanostructures. *Physical Review Letters*, **2008**, 100, 026806	7.4	24
117	Does the surface matter? Hydrogen-bonded chain formation of an oxalic amide derivative in a two- and three-dimensional environment. *ChemPhysChem*, **2008**, 9, 2522-30	3.2	32
116	Surface-assisted assembly of 2D metal-organic networks that exhibit unusual threefold coordination symmetry. *Angewandte Chemie - International Edition*, **2007**, 46, 710-3	16.4	208
115	Self-assembly of periodic bicomponent wires and ribbons. *Angewandte Chemie - International Edition*, **2007**, 46, 1814-8	16.4	150
114	Surface-Assisted Assembly of 2D Metal□Organic Networks That Exhibit Unusual Threefold Coordination Symmetry. *Angewandte Chemie*, **2007**, 119, 724-727	3.6	66

113	Self-Assembly of Periodic Bicomponent Wires and Ribbons. *Angewandte Chemie*, **2007**, 119, 1846-1850	3.6	32
112	Conformational adaptation in supramolecular assembly on surfaces. *ChemPhysChem*, **2007**, 8, 1782-6	3.2	41
111	Chapter 11 Magnetic properties of 2D islands on single-crystal metal surfaces. *Chemical Physics of Solid Surfaces*, **2007**, 12, 427-470		1
110	Surface characterization of MnxGe1 and CryMnxGe1 dilute magnetic semiconductors. *Physical Review B*, **2007**, 75,	3.3	29
109	Metal-organic honeycomb nanomeshes with tunable cavity size. *Nano Letters*, **2007**, 7, 3813-7	11.5	281
108	Coexistence of one- and two-dimensional supramolecular assemblies of terephthalic acid on Pd(111) due to self-limiting deprotonation. *Journal of Chemical Physics*, **2006**, 125, 184710	3.9	63
107	Structure and magnetism of atomically thin Fe layers on flat and vicinal Pt surfaces. *Physical Review B*, **2006**, 74,	3.3	43
106	Thermally activated phenomena in nanoscopic sliding friction. *TriboTest Journal: Tribology and Lubrication in Practice*, **2006**, 12, 169-174		
105	Orbital selective overlayer-substrate hybridization in a Pb monolayer on Ag(111). *Physical Review B*, **2006**, 73,	3.3	13
104	Equilibrium island-size distribution in one dimension. *Physical Review B*, **2006**, 73,	3.3	38
103	Applied physics. Assembly and probing of spin chains of finite size. *Science*, **2006**, 312, 1005-6	33.3	20
102	Monitoring two-dimensional coordination reactions: directed assembly of co-terephthalate nanosystems on Au(111). *Journal of Physical Chemistry B*, **2006**, 110, 5627-32	3.4	72
101	Nucleation of ordered Fe islands on Al2O3/Ni3Al(1 1 1). *Surface Science*, **2006**, 600, 1804-1808	1.8	39
100	Magnetism of Fe clusters and islands on Pt surfaces. *Applied Physics A: Materials Science and Processing*, **2006**, 82, 109-112	2.6	16
99	Giant Spin-Polarization and Magnetic Anisotropy of Nanostructures at Surfaces. *E-Journal of Surface Science and Nanotechnology*, **2006**, 4, 478-483	0.7	5
98	Radial elasticity of multiwalled carbon nanotubes. *Physical Review Letters*, **2005**, 94, 175502	7.4	199
97	X-ray ferromagnetic resonance spectroscopy. *Applied Physics Letters*, **2005**, 87, 152503	3.4	38
96	Magnetic anisotropy from single atoms to large monodomain islands of Co/Pt(111). *Comptes Rendus Physique*, **2005**, 6, 75-87	1.4	27

95	Mesoscopic metallosupramolecular texturing by hierarchic assembly. *Angewandte Chemie - International Edition*, **2005**, 44, 7294-7	16.4	73
94	Mesoscopic Metallosupramolecular Texturing by Hierarchic Assembly. *Angewandte Chemie*, **2005**, 117, 7460-7463	3.6	8
93	Uniform magnetic properties for an ultrahigh-density lattice of noninteracting co nanostructures. *Physical Review Letters*, **2005**, 95, 157204	7.4	139
92	High tunnel magnetoresistance in spin-polarized scanning tunneling microscopy of Co nanoparticles on Pt(111). *Applied Physics Letters*, **2005**, 87, 162514	3.4	31
91	Paramagnetic Mn impurities on Ge and GaAs surfaces. *Physical Review B*, **2005**, 72,	3.3	25
90	Oxidation Induced Enhanced Magnetic Susceptibility of Co Islands on Pt(111)□*Journal of Physical Chemistry B*, **2004**, 108, 14685-14691	3.4	22
89	Grating formation in step flow heterogeneous growth and wavelength selection induced by confinement. *Surface Science*, **2004**, 553, L68-L74	1.8	7
88	The role of surface elasticity in giant corrugations observed by scanning tunneling microscopes. *Chemical Physics Letters*, **2004**, 397, 354-359	2.5	26
87	STM Study of Terephthalic Acid Self-Assembly on Au(111): Hydrogen-Bonded Sheets on an Inhomogeneous Substrate□*Journal of Physical Chemistry B*, **2004**, 108, 14585-14590	3.4	168
86	High-Coverage Structures of Carbon Monoxide Adsorbed on Pt(111) Studied by High-Pressure Scanning Tunneling Microscopy□*Journal of Physical Chemistry B*, **2004**, 108, 14497-14502	3.4	134
85	The2/3Power Law Dependence of Capillary Force on Normal Load in Nanoscopic Friction. *Journal of Physical Chemistry B*, **2004**, 108, 5324-5328	3.4	33
84	Magnetic properties of cobalt and cobalt□platinum nanocrystals investigated by magneto-optical Kerr effect. *Journal of Applied Physics*, **2004**, 95, 4251-4260	2.5	52
83	Electronic surface structure of n-ML Ag/Cu(111) and Cs/n-ML Ag/Cu(111) as investigated by 2PPE and STS. *Applied Physics A: Materials Science and Processing*, **2004**, 78, 183-188	2.6	28
82	Giant magnetic anisotropy of single cobalt atoms and nanoparticles. *Science*, **2003**, 300, 1130-3	33.3	872
81	Selective nucleation and controlled growth: quantum dots on metal, insulator and semiconductor surfaces. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2003**, 361, 311-28; discussion 328-9	3	12
80	The remarkable difference between surface and step atoms in the magnetic anisotropy of two-dimensional nanostructures. *Nature Materials*, **2003**, 2, 546-51	27	189
79	Thermally activated phenomena observed by atomic force microscopy. *Materials Research Society Symposia Proceedings*, **2003**, 790, 1		0
78	Young modulus dependence of nanoscopic friction coefficient in hard coatings. *Applied Physics Letters*, **2003**, 83, 1986-1988	3.4	64

77	Interaction potential and hopping dynamics governing sliding friction. *Physical Review Letters*, **2003**, 91, 084502	7.4	275
76	Two-dimensional electron gas at noble-metal surfaces. *Applied Physics A: Materials Science and Processing*, **2002**, 75, 141-145	2.6	31
75	Use of scanning capacitance microscopy for controlling wafer processing. *Microelectronics Reliability*, **2002**, 42, 225-231	1.2	11
74	Capture numbers in the presence of repulsive adsorbate interactions. *Physical Review B*, **2002**, 66,	3.3	55
73	Kinetics of capillary condensation in nanoscopic sliding friction. *Physical Review Letters*, **2002**, 88, 185505	7.4	231
72	Long-range adsorbate interactions mediated by a two-dimensional electron gas. *Physical Review B*, **2002**, 65,	3.3	239
71	Time-Dependent Capture Numbers with Repulsive Pair Interactions: Cu/Cu(111) and Ge/Si(001). *Materials Research Society Symposia Proceedings*, **2002**, 749, 1		
70	Stereochemical effects in supramolecular self-assembly at surfaces: 1-D versus 2-D enantiomorphic ordering for PVBA and PEBA on Ag(111). *Journal of the American Chemical Society*, **2002**, 124, 7991-8000	16.4	199
69	Imaging of electron potential landscapes on Au(111). *Physical Review Letters*, **2002**, 89, 176801	7.4	81
68	Identification of defect sites on MgO(100) thin films by decoration with Pd atoms and studying CO adsorption properties. *Journal of the American Chemical Society*, **2001**, 123, 6172-8	16.4	100
67	Nanotribology of carbon based thin films: the influence of film structure and surface morphology. *Surface Science*, **2001**, 477, 25-34	1.8	65
66	Growth Modes **2001**, 3683-3692		9
65	Quantum coherence and lifetimes of surface-state electrons. *Journal of Electron Spectroscopy and Related Phenomena*, **2000**, 109, 33-49	1.7	29
64	Dynamics of surface migration in the weak corrugation regime. *Physical Review Letters*, **2000**, 84, 1732-5	7.4	86
63	Nature, strength, and consequences of indirect adsorbate interactions on metals. *Physical Review Letters*, **2000**, 85, 1910-3	7.4	167
62	Noble metal surface states: deviations from parabolic dispersion. *Surface Science*, **2000**, 447, L157-L161	1.8	53
61	Nucleation and growth of supported clusters at defect sites: Pd/MgO(001). *Physical Review B*, **2000**, 61, 11105-11108	3.3	195
60	One-dimensional metal chains on Pt vicinal surfaces. *Physical Review B*, **2000**, 61, 2254-2262	3.3	212

59	Growth of Metal Clusters at Surfaces. *Springer Series in Cluster Physics*, **2000**, 67-105		8
58	Dislocation Structures of Submonolayer Films near the Commensurate-Incommensurate Phase Transition: Ag on Pt(111). *Physical Review Letters*, **1999**, 82, 4488-4491	7.4	25
57	Probing Hot-Electron Dynamics at Surfaces with a Cold Scanning Tunneling Microscope. *Physical Review Letters*, **1999**, 82, 4516-4519	7.4	175
56	Nucleation Kinetics on Inhomogeneous Substrates: Al/Au(111). *Physical Review Letters*, **1999**, 82, 1732-1735	7.4	57
55	Self-organized growth of cluster arrays. *European Physical Journal D*, **1999**, 9, 25-28	1.3	34
54	Measuring surface diffusion from nucleation island densities. *Physical Review B*, **1999**, 60, 5991-6006	3.3	148
53	Comment on "Observation of two-dimensional Fermi contour of a reconstructed Au(111) surface using Fourier transform scanning tunneling microscopy" by D. Fujita, K. Amemiya, T. Yakabe, H. Nejoh, T. Sato, M. Iwatsuki [Surf. Sci. 423 (1999) 160]. *Surface Science*, **1999**, 443, 154-156	1.8	16
52	Thermal damping of quantum interference patterns of surface-state electrons. *Physical Review B*, **1999**, 59, 15926-15934	3.3	123
51	Nucleation and Growth of Supported Metal Clusters at Defect Sites on Mgo and NaCl (001) Surfaces: The Cases of Pd and Ag. *Materials Research Society Symposia Proceedings*, **1999**, 570, 51		5
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