

Harald Brune

List of Publications by Year in descending order

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235
papers

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times ranked

12831
citing authors

#	ARTICLE	IF	CITATIONS
1	Scanning tunneling microscopy observations on the reconstructed Au(111) surface: Atomic structure, long-range superstructure, rotational domains, and surface defects. <i>Physical Review B</i> , 1990, 42, 9307-9318.	1.1	1,218
2	Giant Magnetic Anisotropy of Single Cobalt Atoms and Nanoparticles. <i>Science</i> , 2003, 300, 1130-1133.	6.0	967
3	Microscopic view of epitaxial metal growth: nucleation and aggregation. <i>Surface Science Reports</i> , 1998, 31, 125-229.	3.8	906
4	Self-organized growth of nanostructure arrays on strain-relief patterns. <i>Nature</i> , 1998, 394, 451-453.	13.7	614
5	Building one- and two-dimensional nanostructures by diffusion-controlled aggregation at surfaces. <i>Nature</i> , 1993, 366, 141-143.	13.7	458
6	Controlled Deposition of Size-Selected Silver Nanoclusters. <i>Science</i> , 1996, 274, 956-958.	6.0	329
7	Interaction of oxygen with Al(111) studied by scanning tunneling microscopy. <i>Journal of Chemical Physics</i> , 1993, 99, 2128-2148.	1.2	326
8	Interaction Potential and Hopping Dynamics Governing Sliding Friction. <i>Physical Review Letters</i> , 2003, 91, 084502.	2.9	322
9	Reaching the magnetic anisotropy limit of a 3d metal atom. <i>Science</i> , 2014, 344, 988-992.	6.0	311
10	The role of magnetic anisotropy in the Kondo effect. <i>Nature Physics</i> , 2008, 4, 847-850.	6.5	309
11	Surface migration of Al^{TM} adatoms in the course of dissociative chemisorption of oxygen on Al(111). <i>Physical Review Letters</i> , 1992, 68, 624-626.	2.9	297
12	Metal-Organic Honeycomb Nanomeshes with Tunable Cavity Size. <i>Nano Letters</i> , 2007, 7, 3813-3817.	4.5	297
13	Atomic-Resolution Imaging of Close-Packed Metal Surfaces by Scanning Tunneling Microscopy. <i>Physical Review Letters</i> , 1989, 62, 59-62.	2.9	287
14	Effect of strain on surface diffusion and nucleation. <i>Physical Review B</i> , 1995, 52, R14380-R14383.	1.1	274
15	Kinetics of Capillary Condensation in Nanoscopic Sliding Friction. <i>Physical Review Letters</i> , 2002, 88, 185505.	2.9	262
16	Supramolecular control of the magnetic anisotropy in two-dimensional high-spin Fe arrays at a metal interface. <i>Nature Materials</i> , 2009, 8, 189-193.	13.3	262
17	Long-range adsorbate interactions mediated by a two-dimensional electron gas. <i>Physical Review B</i> , 2002, 65, .	1.1	261
18	Magnetic remanence in single atoms. <i>Science</i> , 2016, 352, 318-321.	6.0	259

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19	Mechanism of the transition from fractal to dendritic growth of surface aggregates. <i>Nature</i> , 1994, 369, 469-471.	13.7	245
20	Monolayer-confined mixing at the Ag-Pt(111) interface. <i>Physical Review Letters</i> , 1993, 71, 2086-2089.	2.9	229
21	One-dimensional metal chains on Pt vicinal surfaces. <i>Physical Review B</i> , 2000, 61, 2254-2262.	1.1	224
22	Surface-Assisted Assembly of 2D Metal-Organic Networks That Exhibit Unusual Threefold Coordination Symmetry. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 710-713.	7.2	219
23	Radial Elasticity of Multiwalled Carbon Nanotubes. <i>Physical Review Letters</i> , 2005, 94, 175502.	2.9	212
24	Stereochemical Effects in Supramolecular Self-Assembly at Surfaces: 1-D versus 2-D Enantiomorphic Ordering for PVBA and PEBA on Ag(111). <i>Journal of the American Chemical Society</i> , 2002, 124, 7991-8000.	6.6	210
25	Microscopic view of epitaxial metal growth: Nucleation and aggregation. <i>Surface Science Reports</i> , 1998, 31, 125-229.	3.8	207
26	Nucleation and growth of supported clusters at defect sites: Pd/MgO(001). <i>Physical Review B</i> , 2000, 61, 11105-11108.	1.1	203
27	The remarkable difference between surface and step atoms in the magnetic anisotropy of two-dimensional nanostructures. <i>Nature Materials</i> , 2003, 2, 546-551.	13.3	200
28	Probing Hot-Electron Dynamics at Surfaces with a Cold Scanning Tunneling Microscope. <i>Physical Review Letters</i> , 1999, 82, 4516-4519.	2.9	194
29	Confinement of Surface State Electrons in Fabry-Pérot Resonators. <i>Physical Review Letters</i> , 1998, 81, 5370-5373.	2.9	191
30	An Endohedral Single-Molecule Magnet with Long Relaxation Times: DySc ₂ N@C ₈₀ . <i>Journal of the American Chemical Society</i> , 2012, 134, 9840-9843.	6.6	188
31	Microscopic View of Nucleation on Surfaces. <i>Physical Review Letters</i> , 1994, 73, 1955-1958.	2.9	184
32	Chiral Kagomé Lattice from Simple Ditopic Molecular Bricks. <i>Journal of the American Chemical Society</i> , 2008, 130, 11778-11782.	6.6	184
33	Strain relief at hexagonal-close-packed interfaces. <i>Physical Review B</i> , 1994, 49, 2997-3000.	1.1	180
34	Nature, Strength, and Consequences of Indirect Adsorbate Interactions on Metals. <i>Physical Review Letters</i> , 2000, 85, 1910-1913.	2.9	175
35	STM Study of Terephthalic Acid Self-Assembly on Au(111): Hydrogen-Bonded Sheets on an Inhomogeneous Substrate. <i>Journal of Physical Chemistry B</i> , 2004, 108, 14585-14590.	1.2	173
36	Interlayer Mass Transport in Homoepitaxial and Heteroepitaxial Metal Growth. <i>Physical Review Letters</i> , 1995, 75, 677-680.	2.9	166

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37	Origin of Interface Magnetism in BiMnO_3 . <i>Physical Review Letters</i> , 2013, 111, 067204.	2.9	166
38	Measuring surface diffusion from nucleation island densities. <i>Physical Review B</i> , 1999, 60, 5991-6006.	1.1	158
39	Self-Assembly of Periodic Bicomponent Wires and Ribbons. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 1814-1818.	7.2	155
40	X-Treme beamline at SLS: X-ray magnetic circular and linear dichroism at high field and low temperature. <i>Journal of Synchrotron Radiation</i> , 2012, 19, 661-674.	1.0	151
41	Uniform Magnetic Properties for an Ultrahigh-Density Lattice of Noninteracting Co Nanostructures. <i>Physical Review Letters</i> , 2005, 95, 157204.	2.9	148
42	High-Coverage Structures of Carbon Monoxide Adsorbed on Pt(111) Studied by High-Pressure Scanning Tunneling Microscopy. <i>Journal of Physical Chemistry B</i> , 2004, 108, 14497-14502.	1.2	144
43	Effect of the TiO_2 Reduction State on the Catalytic CO Oxidation on Deposited Size-Selected Pt Clusters. <i>Journal of the American Chemical Society</i> , 2012, 134, 3445-3450.	6.6	139
44	Giant Hysteresis of Single-Molecule Magnets Adsorbed on a Nonmagnetic Insulator. <i>Advanced Materials</i> , 2016, 28, 5195-5199.	11.1	137
45	High-Quality 2D Metal-Organic Coordination Network Providing Giant Cavities within Mesoscale Domains. <i>Journal of the American Chemical Society</i> , 2009, 131, 3881-3883.	6.6	134
46	Thermal damping of quantum interference patterns of surface-state electrons. <i>Physical Review B</i> , 1999, 59, 15926-15934.	1.1	128
47	Highly Anisotropic Dirac Cones in Epitaxial Graphene Modulated by an Island Superlattice. <i>Physical Review Letters</i> , 2010, 105, 246803.	2.9	121
48	Magnetic Moment and Anisotropy of Individual Co Atoms on Graphene. <i>Physical Review Letters</i> , 2013, 111, 236801.	2.9	116
49	Anisotropic corner diffusion as origin for dendritic growth on hexagonal substrates. <i>Surface Science</i> , 1996, 349, L115-L122.	0.8	112
50	Identification of Defect Sites on MgO(100) Thin Films by Decoration with Pd Atoms and Studying CO Adsorption Properties. <i>Journal of the American Chemical Society</i> , 2001, 123, 6172-6178.	6.6	108
51	Magnetism of individual atoms adsorbed on surfaces. <i>Surface Science</i> , 2009, 603, 1812-1830.	0.8	108
52	Magnetic anisotropy of Fe and Co ultrathin films deposited on Rh(111) and Pt(111) substrates: An experimental and first-principles investigation. <i>Physical Review B</i> , 2010, 82, .	1.1	106
53	Overcoming the Strong Metal-Support Interaction State: CO Oxidation on TiO_2 (110)-Supported Pt Nanoclusters. <i>ACS Catalysis</i> , 2011, 1, 385-389.	5.5	103
54	Diffusion-Limited Aggregation with Active Edge Diffusion. <i>Physical Review Letters</i> , 1995, 74, 3217-3220.	2.9	102

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55	Origin of Perpendicular Magnetic Anisotropy and Large Orbital Moment in Fe Atoms on MgO. Physical Review Letters, 2015, 115, 237202.	2.9	99
56	Changing morphology of metallic monolayers via temperature controlled heteroepitaxial growth. Surface Science, 1993, 298, 121-126.	0.8	91
57	Dynamics of Surface Migration in the Weak Corrugation Regime. Physical Review Letters, 2000, 84, 1732-1735.	2.9	90
58	Adsorption of Small Hydrocarbons on the Three-Fold PdGa Surfaces: The Road to Selective Hydrogenation. Journal of the American Chemical Society, 2014, 136, 11792-11798.	6.6	90
59	In situ STM observations of the etching of n-Si(111) in NaOH solutions. Surface Science, 1992, 275, 414-423.	0.8	88
60	Superlattice of Single Atom Magnets on Graphene. Nano Letters, 2016, 16, 7610-7615.	4.5	87
61	Imaging of Electron Potential Landscapes on Au(111). Physical Review Letters, 2002, 89, 176801.	2.9	85
62	Initial stages of Cu epitaxy on Ni(100): Postnucleation and a well-defined transition in critical island size. Physical Review B, 1996, 54, 17858-17865.	1.1	84
63	Magnetocrystalline anisotropy energy of Co and Fe adatoms on the (111) surfaces of Pd and Rh. Physical Review B, 2010, 81, .	1.1	82
64	Interaction of oxygen with Al(111) at elevated temperatures. Journal of Chemical Physics, 1998, 108, 1740-1747.	1.2	80
65	Direct observation of a ferri-to-ferromagnetic transition in a fluoride-bridged $3d\text{-}4f$ molecular cluster. Chemical Science, 2012, 3, 1024-1032.	3.7	78
66	Large Band Gap Opening between Graphene Dirac Cones Induced by Na Adsorption onto an Ir Superlattice. ACS Nano, 2012, 6, 199-204.	7.3	76
67	Mesoscopic Metallosupramolecular Texturing by Hierarchic Assembly. Angewandte Chemie - International Edition, 2005, 44, 7294-7297.	7.2	75
68	Monitoring Two-Dimensional Coordination Reactions: Directed Assembly of Co^{II} -Terephthalate Nanosystems on Au(111). Journal of Physical Chemistry B, 2006, 110, 5627-5632.	1.2	74
69	Nanotribology of carbon based thin films: the influence of film structure and surface morphology. Surface Science, 2001, 477, 25-34.	0.8	70
70	Formation of Fe Cluster Superlattice in a Metal-Organic Quantum-Box Network. Physical Review Letters, 2013, 110, 086102.	2.9	69
71	Young modulus dependence of nanoscopic friction coefficient in hard coatings. Applied Physics Letters, 2003, 83, 1986-1988.	1.5	68
72	High magnetic moments and anisotropies for $\langle \text{Fe} \rangle$ on Pt(111). Physical Review B, 2008, 78, .	1.1	68

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73	Coexistence of one- and two-dimensional supramolecular assemblies of terephthalic acid on Pd(111) due to self-limiting deprotonation. <i>Journal of Chemical Physics</i> , 2006, 125, 184710.	1.2	66
74	Self-Assembly of Nanoporous Chiral Networks with Varying Symmetry from Sexiphenyl-dicarbonitrile on Ag(111). <i>Journal of Physical Chemistry C</i> , 2009, 113, 17851-17859.	1.5	66
75	Reaction-Induced Cluster Ripening and Initial Size-Dependent Reaction Rates for CO Oxidation on Pt _n /TiO ₂ (110)-(1Å ⁻¹). <i>Journal of the American Chemical Society</i> , 2014, 136, 8702-8707.	6.6	63
76	Tailoring the Magnetism of Co Atoms on Graphene through Substrate Hybridization. <i>Physical Review Letters</i> , 2014, 113, 177201.	2.9	62
77	Surface Aligned Magnetic Moments and Hysteresis of an Endohedral Single-Molecule Magnet on a Metal. <i>Physical Review Letters</i> , 2015, 114, 087201.	2.9	62
78	Nucleation Kinetics on Inhomogeneous Substrates: Al/Au(111). <i>Physical Review Letters</i> , 1999, 82, 1732-1735.	2.9	60
79	Direct Imaging of Adsorption Sites and Local Electronic Bond Effects on a Metal Surface: C/Al(111). <i>Europhysics Letters</i> , 1990, 13, 123-128.	0.7	59
80	Capture numbers in the presence of repulsive adsorbate interactions. <i>Physical Review B</i> , 2002, 66, .	1.1	58
81	Surface-Confined Self-Assembly of Dicyanobenzene Polyphenyls. <i>Advanced Functional Materials</i> , 2011, 21, 1230-1240.	7.8	58
82	Noble metal surface states: deviations from parabolic dispersion. <i>Surface Science</i> , 2000, 447, L157-L161.	0.8	57
83	Magnetic properties of cobalt and cobalt-platinum nanocrystals investigated by magneto-optical Kerr effect. <i>Journal of Applied Physics</i> , 2004, 95, 4251-4260.	1.1	56
84	Thermal and Magnetic-Field Stability of Holmium Single-Atom Magnets. <i>Physical Review Letters</i> , 2018, 121, 027201.	2.9	56
85	Magnetism of Ho and Er Atoms on Close-Packed Metal Surfaces. <i>Physical Review Letters</i> , 2014, 113, 237201.	2.9	55
86	Strain mediated two-dimensional growth kinetics in metal heteroepitaxy: Ag/Pt(111). <i>Surface Science</i> , 1997, 376, 13-31.	0.8	52
87	Controlling the Spin of Co Atoms on Pt(111) by Hydrogen Adsorption. <i>Physical Review Letters</i> , 2015, 114, 106807.	2.9	52
88	Kinetic processes in metal epitaxy studied with variable temperature STM: Ag/Pt(111). <i>Thin Solid Films</i> , 1995, 264, 230-235.	0.8	51
89	Structure and magnetism of atomically thin Fe layers on flat and vicinal Pt surfaces. <i>Physical Review B</i> , 2006, 74, .	1.1	51
90	Hard and soft landing of mass selected Ag clusters on Pt(111). <i>Surface Science</i> , 1997, 377-379, 1051-1055.	0.8	50

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91	Island Shape Transition in Heteroepitaxial Metal Growth on Square Lattices. <i>Physical Review Letters</i> , 1998, 80, 2642-2645.	2.9	50
92	Atomic-scale engineering of magnetic anisotropy of nanostructures through interfaces and interlines. <i>Nature Communications</i> , 2012, 3, 1313.	5.8	50
93	Complex Interplay and Hierarchy of Interactions in Two-Dimensional Supramolecular Assemblies. <i>ACS Nano</i> , 2011, 5, 457-469.	7.3	48
94	Self-Assembled Nanometer-Scale Magnetic Networks on Surfaces: Fundamental Interactions and Functional Properties. <i>Advanced Functional Materials</i> , 2011, 21, 1212-1228.	7.8	48
95	Distinction of Nuclear Spin States with the Scanning Tunneling Microscope. <i>Physical Review Letters</i> , 2013, 111, 175303.	2.9	48
96	Isolated Pd Sites on the Intermetallic PdGa(111) and PdGa($\sqrt{1}\sqrt{1}\sqrt{1}$) Model Catalyst Surfaces. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9339-9343.	7.2	47
97	Using metal-organic templates to steer the growth of Fe and Co nanoclusters. <i>Applied Physics Letters</i> , 2008, 93, 243102.	1.5	45
98	Atomic scale characterization of oxygen adsorbates on Al(111) by scanning tunneling microscopy. <i>Applied Physics A: Solids and Surfaces</i> , 1988, 47, 99-102.	1.4	44
99	The $2/3$ Power Law Dependence of Capillary Force on Normal Load in Nanoscopic Friction. <i>Journal of Physical Chemistry B</i> , 2004, 108, 5324-5328.	1.2	44
100	Surface-Confined Metal-Organic Nanostructures from Co-Directed Assembly of Linear Terphenyl-dicarbonitrile Linkers on Ag(111). <i>Journal of Physical Chemistry C</i> , 2010, 114, 15602-15606.	1.5	44
101	Interfacial properties of LaMnO_3 grown along (001) and (111) orientations. <i>Physical Review B</i> , 2015, 92, .	1.1	44
102	X-ray ferromagnetic resonance spectroscopy. <i>Applied Physics Letters</i> , 2005, 87, 152503.	1.5	42
103	Conformational Adaptation in Supramolecular Assembly on Surfaces. <i>ChemPhysChem</i> , 2007, 8, 1782-1786.	1.0	41
104	Optical properties of size selected neutral Ag clusters: electronic shell structures and the surface plasmon resonance. <i>Nanoscale</i> , 2018, 10, 20821-20827.	2.8	41
105	Reconstructive adsorption of Na on Al(111) studied by scanning tunneling microscopy. <i>Physical Review B</i> , 1995, 51, 13592-13613.	1.1	40
106	Formation of two-dimensional sulfide phases on Al(111): an STM study. <i>Surface Science</i> , 1995, 324, 91-105.	0.8	40
107	Nucleation of ordered Fe islands on $\text{Al}_2\text{O}_3/\text{Ni}_3\text{Al}(111)$. <i>Surface Science</i> , 2006, 600, 1804-1808.	0.8	40
108	Equilibrium island-size distribution in one dimension. <i>Physical Review B</i> , 2006, 73, .	1.1	39

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109	Low Temperature Ferromagnetism in Chemically Ordered FeRh Nanocrystals. <i>Physical Review Letters</i> , 2013, 110, 087207.	2.9	39
110	Exchange Interaction of Strongly Anisotropic Tripodal Erbium Single-Ion Magnets with Metallic Surfaces. <i>ACS Nano</i> , 2014, 8, 4662-4671.	7.3	37
111	Ring State for Single Transition Metal Atoms on Boron Nitride on Rh(111). <i>Physical Review Letters</i> , 2012, 109, 066101.	2.9	36
112	Understanding the Superior Stability of Single-Molecule Magnets on an Oxide Film. <i>Advanced Science</i> , 2019, 6, 1901736.	5.6	36
113	Self-organized growth of cluster arrays. <i>European Physical Journal D</i> , 1999, 9, 25-28.	0.6	35
114	Two-dimensional electron gas at noble-metal surfaces. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 75, 141-145.	1.1	35
115	Quantifying residual hydrogen adsorption in low-temperature STMs. <i>Surface Science</i> , 2013, 615, 80-87.	0.8	34
116	X-ray induced demagnetization of single-molecule magnets. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	34
117	Ensemble Effect Evidenced by CO Adsorption on the 3-Fold PdGa Surfaces. <i>Journal of Physical Chemistry C</i> , 2014, 118, 12260-12265.	1.5	34
118	Engineering atomic-scale magnetic fields by dysprosium single atom magnets. <i>Nature Communications</i> , 2021, 12, 4179.	5.8	34
119	occupancy and magnetism of rare-earth atoms adsorbed on metal substrates. <i>Physical Review B</i> , 2017, 96, .	1.1	33
120	Molecular motor crossing the frontier of classical to quantum tunneling motion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 14838-14842.	3.3	33
121	Unconventional Spin Relaxation Involving Localized Vibrational Modes in Ho Single-Atom Magnets. <i>Physical Review Letters</i> , 2020, 124, 077204.	2.9	33
122	Quantum coherence and lifetimes of surface-state electrons. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2000, 109, 33-49.	0.8	32
123	High tunnel magnetoresistance in spin-polarized scanning tunneling microscopy of Co nanoparticles on Pt(111). <i>Applied Physics Letters</i> , 2005, 87, 162514.	1.5	32
124	Surface characterization of Mn _x Ge _{1-x} and Cr _y Mn _x Ge _{1-x-y} dilute magnetic semiconductors. <i>Physical Review B</i> , 2007, 75, .	1.1	32
125	Does the Surface Matter? Hydrogen-Bonded Chain Formation of an Oxalic Amide Derivative in a Two- and Three-Dimensional Environment. <i>ChemPhysChem</i> , 2008, 9, 2522-2530.	1.0	32
126	Intermixing and two-dimensional alloy formation in the Na/Au(111) system. <i>Surface Science</i> , 1993, 292, L769-L774.	0.8	31

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127	Stability of disk and stripe patterns of nanostructures at surfaces. <i>Surface Science</i> , 1995, 342, L1131-L1136.	0.8	31
128	Magnetic anisotropy from single atoms to large monodomain islands of Co/Pt(111). <i>Comptes Rendus Physique</i> , 2005, 6, 75-87.	0.3	31
129	Electronic surface structure of n -ML Ag/Cu(111) and Cs/ n -ML Ag/Cu(111) as investigated by 2PPE and STS. <i>Applied Physics A: Materials Science and Processing</i> , 2004, 78, 183-188.	1.1	30
130	Temperature-dependent self-assembly of NCa€“Ph5a€“CN molecules on Cu(111). <i>Journal of Chemical Physics</i> , 2015, 142, 101928.	1.2	30
131	Uniaxial 2D Superlattice of Fe₄ Molecular Magnets on Graphene. <i>Nano Letters</i> , 2017, 17, 7177-7182.	4.5	30
132	Assessing dystrophies and other muscle diseases at the nanometer scale by atomic force microscopy. <i>Nanomedicine</i> , 2014, 9, 393-406.	1.7	29
133	The role of surface elasticity in giant corrugations observed by scanning tunneling microscopes. <i>Chemical Physics Letters</i> , 2004, 397, 354-359.	1.2	28
134	Paramagnetic Mn impurities on Ge and GaAs surfaces. <i>Physical Review B</i> , 2005, 72, .	1.1	28
135	Highly Enantioselective Adsorption of Small Prochiral Molecules on a Chiral Intermetallic Compound. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3902-3906.	7.2	28
136	Magnetic Hysteresis in Er Trimers on Cu(111). <i>Nano Letters</i> , 2016, 16, 3475-3481.	4.5	28
137	Upgrade of a low-temperature scanning tunneling microscope for electron-spin resonance. <i>Review of Scientific Instruments</i> , 2019, 90, 013706.	0.6	28
138	Complex Magnetic Exchange Coupling between Co Nanostructures and Ni(111) across Epitaxial Graphene. <i>ACS Nano</i> , 2016, 10, 1101-1107.	7.3	27
139	Out-of-Plane Alignment of Er(trensal) Easy Magnetization Axes Using Graphene. <i>ACS Nano</i> , 2016, 10, 2887-2892.	7.3	27
140	Stress relief via island formation of an isotropically strained bimetallic surface layer: The mesoscopic morphology of the Ag/Pt (111) surface alloy. <i>Physical Review B</i> , 1996, 54, 13476-13479.	1.1	26
141	Dislocation Structures of Submonolayer Films near the Commensurate-Incommensurate Phase Transition: Ag on Pt(111). <i>Physical Review Letters</i> , 1999, 82, 4488-4491.	2.9	26
142	Resonant-Enhanced Spectroscopy of Molecular Rotations with a Scanning Tunneling Microscope. <i>ACS Nano</i> , 2014, 8, 7099-7105.	7.3	26
143	Multiplet features and magnetic properties of Fe on Cu(111): From single atoms to small clusters. <i>Physical Review B</i> , 2015, 91, .	1.1	25
144	Adsorption sites of individual metal atoms on ultrathin MgO(100) films. <i>Physical Review B</i> , 2017, 96, .	1.1	25

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145	Role of Hydrogen in Giant Spin Polarization Observed on Magnetic Nanostructures. <i>Physical Review Letters</i> , 2008, 100, 026806.	2.9	24
146	X-ray Magnetic Circular Dichroism (XMCD) Study of a Methoxide-Bridged Dy ^{III} Cr ^{III} Cluster Obtained by Fluoride Abstraction from <i>cis</i> -[Cr ^{III} F ₂ (phen) ₂] ⁺ . <i>Journal of Physical Chemistry A</i> , 2012, 116, 7842-7847.	1.1	24
147	Direct capture and electrostatic repulsion in the self-assembly of rare-earth atom superlattices on graphene. <i>Physical Review B</i> , 2018, 98, .	1.1	24
148	Pseudomorphic growth induced by chemical adatom potential. <i>Surface Science</i> , 1997, 388, L1107-L1114.	0.8	23
149	Magnetic properties of single rare-earth atoms on graphene/Ir(111). <i>Physical Review B</i> , 2018, 98, .	1.1	23
150	Oxidation Induced Enhanced Magnetic Susceptibility of Co Islands on Pt(111). <i>Journal of Physical Chemistry B</i> , 2004, 108, 14685-14691.	1.2	22
151	Aggregation of fractal and dendritic Ag clusters on a Pt(111) surface. <i>Applied Physics A: Materials Science and Processing</i> , 1995, 60, 167-171.	1.1	21
152	APPLIED PHYSICS: Assembly and Probing of Spin Chains of Finite Size. <i>Science</i> , 2006, 312, 1005-1006.	6.0	21
153	Two Distinct Phases of Bilayer Graphene Films on Ru(0001). <i>ACS Nano</i> , 2012, 6, 9299-9304.	7.3	21
154	Quantum state manipulation of single atom magnets using the hyperfine interaction. <i>Physical Review B</i> , 2019, 100, .	1.1	21
155	Stabilization of bimolecular islands on ultrathin NaCl films by a vicinal substrate. <i>Surface Science</i> , 2009, 603, 2294-2299.	0.8	20
156	Correlation between Electronic Configuration and Magnetic Stability in Dysprosium Single Atom Magnets. <i>Nano Letters</i> , 2021, 21, 8266-8273.	4.5	20
157	Magnetic anisotropy of Fe and Co adatoms and Fe clusters magnetically decoupled from Ni_3 an alumina bilayer. <i>Physical Review B</i> , 2010, 81, .	1.1	19
158	Competing Interactions in the Self-Assembly of NC-Ph ₃ -CN Molecules on Cu(111). <i>Journal of Physical Chemistry C</i> , 2015, 119, 25442-25448.	1.5	19
159	Chapter 5 Heteroepitaxial metal growth: the effects of strain. <i>Chemical Physics of Solid Surfaces</i> , 1997, , 149-206.	0.3	18
160	Strain Relief via Island Ramification in Submonolayer Heteroepitaxy. <i>Surface Review and Letters</i> , 1998, 05, 769-781.	0.5	18
161	Intense fluorescence of Au ₂₀ . <i>Journal of Chemical Physics</i> , 2017, 147, 074301.	1.2	18
162	Magnetism of Fe clusters and islands on Pt surfaces. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 82, 109-112.	1.1	17

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