

Rodolfo Miranda

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2904902/publications.pdf>

Version: 2024-02-01

373
papers

13,281
citations

20817

60
h-index

36028

97
g-index

386
all docs

386
docs citations

386
times ranked

10858
citing authors

#	ARTICLE	IF	CITATIONS
1	Periodically Rippled Graphene: Growth and Spatially Resolved Electronic Structure. <i>Physical Review Letters</i> , 2008, 100, 056807.	7.8	566
2	Curie temperature of ultrathin films of fcc-cobalt epitaxially grown on atomically flat Cu(100) surfaces. <i>Physical Review Letters</i> , 1990, 64, 1059-1062.	7.8	453
3	The influence of surface functionalization on the enhanced internalization of magnetic nanoparticles in cancer cells. <i>Nanotechnology</i> , 2009, 20, 115103.	2.6	299
4	Charge-transfer-induced structural rearrangements at both sides of organic/metal interfaces. <i>Nature Chemistry</i> , 2010, 2, 374-379.	13.6	273
5	Origin of the Asymmetric Magnetization Reversal Behavior in Exchange-Biased Systems: Competing Anisotropies. <i>Physical Review Letters</i> , 2005, 95, 057204.	7.8	255
6	Scanning-tunneling-microscopy study of the growth of cobalt on Cu(111). <i>Physical Review B</i> , 1993, 47, 13043-13046.	3.2	237
7	Efficient treatment of breast cancer xenografts with multifunctionalized iron oxide nanoparticles combining magnetic hyperthermia and anti-cancer drug delivery. <i>Breast Cancer Research</i> , 2015, 17, 66.	5.0	231
8	Determination of surface topography of biological specimens at high resolution by scanning tunnelling microscopy. <i>Nature</i> , 1985, 315, 253-254.	27.8	205
9	Molecular Self-Assembly at Solid Surfaces. <i>Advanced Materials</i> , 2011, 23, 5148-5176.	21.0	192
10	Influence of the growth conditions on the magnetic properties of fcc cobalt films: from monolayers to superlattices. <i>Journal of Magnetism and Magnetic Materials</i> , 1991, 93, 1-9.	2.3	181
11	Long-range magnetic order in a purely organic 2D layer adsorbed on epitaxial graphene. <i>Nature Physics</i> , 2013, 9, 368-374.	16.7	158
12	Cs and O adsorption on Si(100) 2 \times 1: A model system for promoted oxidation of semiconductors. <i>Physical Review B</i> , 1987, 36, 6213-6216.	3.2	151
13	Observation of preferred heights in Pb nanoislands: A quantum size effect. <i>Physical Review B</i> , 2002, 66, .	3.2	146
14	Antiferromagnetic ordering in Co-Cu single-crystal superlattices. <i>Physical Review B</i> , 1989, 39, 9726-9729.	3.2	145
15	Controlled synthesis of uniform magnetite nanocrystals with high-quality properties for biomedical applications. <i>Journal of Materials Chemistry</i> , 2012, 22, 21065.	6.7	141
16	Nature of Surface-Enhanced-Raman-Scattering Active Sites on Coldly Condensed Ag Films. <i>Physical Review Letters</i> , 1983, 51, 2314-2317.	7.8	136
17	Experimental and theoretical study of Co adsorbed at the surface of Cu: Reconstructions, charge-density waves, surface magnetism, and oxygen adsorption. <i>Physical Review B</i> , 1981, 24, 3245-3254.	3.2	134
18	Electronic and geometric corrugation of periodically rippled, self-nanostructured graphene epitaxially grown on Ru(0001). <i>New Journal of Physics</i> , 2010, 12, 093018.	2.9	133

#	ARTICLE	IF	CITATIONS
19	Surfactant-Induced Suppression of Twin Formation During Growth of fcc Co/Cu Superlattices on Cu(111). <i>Physical Review Letters</i> , 1994, 73, 2448-2451.	7.8	129
20	Role of Dispersion Forces in the Structure of Graphene Monolayers on Ru Surfaces. <i>Physical Review Letters</i> , 2011, 106, 186102.	7.8	129
21	Spatial variation of a giant spin-orbit effect induces electron confinement in graphene on islands. <i>Nature Physics</i> , 2015, 11, 43-47.	16.7	126
22	Atomistic Mechanism of Surfactant-Assisted Epitaxial Growth. <i>Physical Review Letters</i> , 1998, 81, 850-853.	7.8	123
23	Ordering Fullerenes at the Nanometer Scale on Solid Surfaces. <i>Chemical Reviews</i> , 2009, 109, 2081-2091.	47.7	113
24	Emergence of noncollinear anisotropies from interfacial magnetic frustration in exchange-bias systems. <i>Physical Review B</i> , 2009, 80, .	3.2	111
25	Surfactant-Mediated Modification of the Magnetic Properties of Co/Cu(111) Thin Films and Superlattices. <i>Physical Review Letters</i> , 1996, 76, 4428-4431.	7.8	109
26	New experimental studies on the adsorption of K on Si(100) and Si(111). <i>Surface Science</i> , 1986, 177, L947-L955.	1.9	105
27	Early stages of the alkali-metal-promoted oxidation of silicon. <i>Physical Review B</i> , 1988, 38, 13399-13406.	3.2	101
28	Engineering Iron Oxide Nanoparticles for Clinical Settings. <i>Nanobiomedicine</i> , 2014, 1, 2.	5.7	101
29	Efficient and safe internalization of magnetic iron oxide nanoparticles: Two fundamental requirements for biomedical applications. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014, 10, 733-743.	3.3	101
30	Multifunctionalized iron oxide nanoparticles for selective drug delivery to CD44-positive cancer cells. <i>Nanotechnology</i> , 2016, 27, 065103.	2.6	100
31	Evidence for acoustic-like plasmons on epitaxial graphene on Pt(111). <i>Physical Review B</i> , 2011, 84, .	3.2	99
32	Thermodynamics of xenon adsorption on Pd(s)[8(100) \bar{A} – (110)]: From steps to multilayers. <i>Surface Science</i> , 1983, 131, 61-91.	1.9	95
33	Tailoring topological order and π -conjugation to engineer quasi-metallic polymers. <i>Nature Nanotechnology</i> , 2020, 15, 437-443.	31.5	95
34	Electron Resonances in Sharp Tips and Their Role in Tunneling Spectroscopy. <i>Physical Review Letters</i> , 1998, 80, 357-360.	7.8	94
35	Elastic properties of a macroscopic graphene sample from phonon dispersion measurements. <i>Carbon</i> , 2012, 50, 4903-4910.	10.3	91
36	The Fe/Si(100) interface. <i>Journal of Applied Physics</i> , 1991, 69, 1377-1383.	2.5	90

#	ARTICLE	IF	CITATIONS
37	Metallization-induced spontaneous silicide formation at room temperature: The Fe/Si case. Physical Review B, 1992, 46, 13339-13344.	3.2	90
38	Self-organization of electron acceptor molecules on graphene. Chemical Communications, 2010, 46, 8198.	4.1	90
39	Fabrication of magnetic quantum wires by step-flow growth of cobalt on copper surfaces. Applied Physics Letters, 1995, 66, 1006-1008.	3.3	87
40	Potential Energy Landscape for Hot Electrons in Periodically Nanostructured Graphene. Physical Review Letters, 2010, 105, 036804.	7.8	85
41	Initial stages of the growth of Fe on Si(111)7Å–7. Physical Review B, 1993, 47, 16048-16051.	3.2	84
42	Characterization of the growth processes and magnetic properties of thin ferromagnetic cobalt films on Cu(100). Surface Science, 1989, 211-212, 732-739.	1.9	82
43	Modulation of Magnetic Heating via Dipolar Magnetic Interactions in Monodisperse and Crystalline Iron Oxide Nanoparticles. Journal of Physical Chemistry C, 2014, 118, 19985-19994.	3.1	82
44	Epitaxial growth of cobalt films on Cu(100): a crystallographic LEED determination. Journal of Physics Condensed Matter, 1993, 5, 2055-2062.	1.8	80
45	Angle-resolved photoemission of CO chemisorption on Pd(111). Surface Science, 1984, 139, 430-442.	1.9	76
46	Electronic structure of iron silicides grown on Si(100) determined by photoelectron spectroscopies. Physical Review B, 1992, 45, 14042-14051.	3.2	76
47	Real-Space Imaging of the First Stages of FeSi ₂ Epitaxially Grown on Si(111): Nucleation and Atomic Structure. Europhysics Letters, 1992, 18, 595-600.	2.0	74
48	Intrinsic surface band bending in Cu ₃ N films. Physical Review B, 2007, 76, .	3.2	74
49	Lateral confinement of surface states on stepped Cu(111). Physical Review B, 1995, 52, 7894-7897.	3.2	73
50	Surface etching and enhanced diffusion during the early stages of the growth of Co on Cu(111). Surface Science, 1994, 307-309, 538-543.	1.9	72
51	Crossover Site-Selectivity in the Adsorption of the Fullerene Derivative PCBM on Au(111). Angewandte Chemie - International Edition, 2007, 46, 7874-7877.	13.8	70
52	Surfing ripples towards new devices. Nature Nanotechnology, 2009, 4, 549-550.	31.5	70
53	Helium reflectivity and Debye temperature of graphene grown epitaxially on Ru(0001). Physical Review B, 2011, 84, .	3.2	69
54	Spin- and angle-resolved photoemission from single crystals and epitaxial films using circularly polarized synchrotron radiation. Journal of Electron Spectroscopy and Related Phenomena, 1990, 51, 263-274.	1.7	67

#	ARTICLE	IF	CITATIONS
55	On the porosity of coldly condensed sers active Ag films. Surface Science, 1985, 150, 367-385.	1.9	66
56	Contrast Reversal and Shape Changes of Atomic Adsorbates Measured with Scanning Tunneling Microscopy. Physical Review Letters, 2004, 92, 206101.	7.8	66
57	Mechanisms of epitaxial growth and magnetic properties of $\text{Fe}_4\text{N}(100)$ films on $\text{Cu}(100)$. Physical Review B, 2004, 70, .	3.2	65
58	Observation of magnetic circular dichroism in uv photoemission from ferromagnetic fcc cobalt films. Physical Review B, 1991, 44, 12066-12069.	3.2	64
59	Molecular Conformation, Organizational Chirality, and Iron Metalation of meso-Tetramesitylporphyrins on Copper(100). Journal of Physical Chemistry C, 2008, 112, 8988-8994.	3.1	64
60	Experimental evidence of an oscillatory magnetic coupling in Co / Cu / Co epitaxial layers. Journal of Magnetism and Magnetic Materials, 1991, 102, 25-29.	2.3	63
61	Structural and electronic properties of $\text{K}/\text{Si}(100)2\text{\AA}-1$. Physical Review B, 1992, 45, 11811-11822.	3.2	63
62	A thermal desorption study of the adsorption of CO on Fe(110); enhancement of dissociation by surface defects. Surface Science, 1982, 119, 61-70.	1.9	60
63	Mechanism of alkali-promoted oxidation of silicon. Applied Physics Letters, 1987, 51, 1714-1716.	3.3	60
64	hcp-to-fcc stacking switch in thin cobalt films induced by Cu capping. Physical Review B, 1997, 55, 10791-10799.	3.2	60
65	Unraveling Dzyaloshinskii-Moriya Interaction and Chiral Nature of Graphene/Cobalt Interface. Nano Letters, 2018, 18, 5364-5372.	9.1	60
66	Technological applications of scanning tunneling microscopy at atmospheric pressure. Applied Physics Letters, 1985, 47, 367-369.	3.3	59
67	An Organic Donor/Acceptor Lateral Superlattice at the Nanoscale. Nano Letters, 2007, 7, 2602-2607.	9.1	59
68	Fe thin-film growth on Au(100): A self-surfactant effect and its limitations. Physical Review B, 1999, 59, 15966-15974.	3.2	58
69	Self-surfactant effect on Fe/Au(100):. Surface Science, 1998, 415, 106-121.	1.9	56
70	Detecting Electronic States at Stacking Faults in Magnetic Thin Films by Tunneling Spectroscopy. Physical Review Letters, 2000, 85, 4365-4368.	7.8	56
71	Highly asymmetric magnetic behavior in exchange biased systems induced by noncollinear field cooling. Applied Physics Letters, 2009, 95, .	3.3	56
72	Alkali-induced oxidation of silicon. Surface Science, 1987, 189-190, 245-251.	1.9	54

#	ARTICLE	IF	CITATIONS
73	Ultrathin gate oxides formed by catalytic oxidation of silicon. Applied Physics Letters, 1987, 50, 1660-1662.	3.3	53
74	Native point defects and their implications for the Dirac point gap at MnBi ₂ Te ₄ (0001). Npj Quantum Materials, 2022, 7, .	5.2	53
75	Magnetic exchange splitting of one layer of cobalt deposited on top of the (111) surface of copper. Physical Review B, 1982, 25, 527-530.	3.2	51
76	Growth of cobalt and cobalt disilicide on Si(100). Surface Science, 1990, 239, 203-212.	1.9	49
77	STM characterization of extended dislocation configurations in Au(001). Physical Review B, 1998, 58, 1169-1172.	3.2	49
78	Surface energetics in a heteroepitaxial model system: Co/Cu(111). Physical Review B, 2000, 62, 2126-2133.	3.2	48
79	Accurate determination of the specific absorption rate in superparamagnetic nanoparticles under non-adiabatic conditions. Applied Physics Letters, 2012, 101, 062413.	3.3	48
80	On the porosity of coldly condensed sers active Ag films. Surface Science, 1985, 150, 386-398.	1.9	45
81	Surface characterization of epitaxial, semiconducting, FeSi ₂ grown on Si(100). Applied Physics Letters, 1991, 59, 99-101.	3.3	45
82	Electronic structure of a cobalt monolayer on Cu(100). Surface Science, 1983, 130, 269-281.	1.9	44
83	K/Si(100) 2 Å– 1: A Case Study for the Transfer of Charge between Alkali Metals and Semiconductor Surfaces. Europhysics Letters, 1988, 5, 727-732.	2.0	44
84	On the Surface Synthesis of Ethynylene-Bridged Anthracene Polymers. Angewandte Chemie - International Edition, 2019, 58, 6559-6563.	13.8	44
85	Crystallography and morphology of the early stages of the growth of by LEED and STM. Surface Science, 1996, 349, L139-L145.	1.9	43
86	Surface-Supported Robust 2D Lanthanide-Carboxylate Coordination Networks. Small, 2015, 11, 6358-6364.	10.0	43
87	Tailoring magnetic anisotropy in epitaxial half metallic La _{0.7} Sr _{0.3} MnO ₃ thin films. Journal of Applied Physics, 2011, 110, .	2.5	42
88	Spatially Resolved, Site-Dependent Charge Transfer and Induced Magnetic Moment in TCNQ Adsorbed on Graphene. Chemistry of Materials, 2014, 26, 2883-2890.	6.7	42
89	Atomic aspects in the epitaxial growth of metallic superlattices and nanostructures. Journal of Physics Condensed Matter, 2002, 14, R1063-R1097.	1.8	41
90	Creation and motion of vacancy islands on solid surfaces: A direct view. Solid State Communications, 1994, 89, 815-818.	1.9	40

#	ARTICLE	IF	CITATIONS
91	Diffraction of molecular hydrogen from metal surfaces. <i>Progress in Surface Science</i> , 2011, 86, 222-254.	8.3	40
92	Roughening transition in adsorbed xenon multilayers. <i>Journal of Chemical Physics</i> , 1984, 80, 2931-2938.	3.0	39
93	Engineering Large Anisotropic Magnetoresistance in $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ Films at Room Temperature. <i>Advanced Functional Materials</i> , 2017, 27, 1700664.	14.9	39
94	Nonmagnetic FeN films epitaxially grown on Cu(001): Electronic structure and thermal stability. <i>Physical Review B</i> , 2008, 78, .	3.2	38
95	Tailoring surface electronic states via strain to control adsorption: O/Cu/Ru(0001). <i>Surface Science</i> , 2004, 550, 65-72.	1.9	37
96	Reactivity of periodically rippled graphene grown on Ru(0001). <i>Journal of Physics Condensed Matter</i> , 2009, 21, 134002.	1.8	37
97	On-Surface Synthesis of Gold Porphyrin Derivatives via a Cascade of Chemical Interactions: Planarization, Self-Metalation, and Intermolecular Coupling. <i>Chemistry of Materials</i> , 2019, 31, 3248-3256.	6.7	37
98	Properties of potassium adsorbed on $\text{Si}(100)2\text{\AA}-1$. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1989, 7, 1885-1888.	2.1	36
99	Influence of surfactants on atomic diffusion. <i>Surface Science</i> , 2000, 459, 135-148.	1.9	36
100	Organic Covalent Patterning of Nanostructured Graphene with Selectivity at the Atomic Level. <i>Nano Letters</i> , 2016, 16, 355-361.	9.1	36
101	Tailoring π -conjugation and vibrational modes to steer on-surface synthesis of pentalene-bridged ladder polymers. <i>Nature Communications</i> , 2020, 11, 4567.	12.8	36
102	Unravelling the Open-Shell Character of Peripentacene on Au(111). <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 330-336.	4.6	36
103	Photoemission study of a high-Tc superconducting Bi-Sr-Ca-Cu oxide. <i>Physical Review B</i> , 1988, 38, 5146-5149.	3.2	35
104	Quadratic Dispersion and Damping Processes of π Plasmon in Monolayer Graphene on Pt(111). <i>Plasmonics</i> , 2012, 7, 369-376.	3.4	35
105	Lattice-matched versus lattice-mismatched models to describe epitaxial monolayer graphene on Ru(0001). <i>Physical Review B</i> , 2013, 88, .	3.2	35
106	Elastic Response of Graphene Nanodomes. <i>ACS Nano</i> , 2013, 7, 2927-2934.	14.6	35
107	Influence of ion radiation damage on surface reactivity. <i>Vacuum</i> , 1984, 34, 1069-1079.	3.5	34
108	Can electron confinement barriers be determined by STM?. <i>Surface Science</i> , 2000, 447, 143-148.	1.9	34

#	ARTICLE	IF	CITATIONS
109	A Quantum-Stabilized Mirror for Atoms. <i>Advanced Materials</i> , 2008, 20, 3492-3497.	21.0	34
110	Electron localization in epitaxial graphene on Ru(0001) determined by moiré corrugation. <i>Physical Review B</i> , 2012, 85, .	3.2	34
111	A structural study of the K adsorption site on a Si(001)2 × 1 surface: Dimer, caves or both. <i>Surface Science</i> , 1989, 211-212, 31-38.	1.9	33
112	A structural analysis of the Co(0001) surface and the early stages of the epitaxial growth of Cu on it. <i>Surface Science</i> , 1998, 401, 248-260.	1.9	33
113	Evidence of large spin-orbit coupling effects in quasi-free-standing graphene on Pb/Ir(1 × 1). <i>2D Materials</i> , 2018, 5, 035029.	4.4	33
114	Diradical Organic One-Dimensional Polymers Synthesized on a Metallic Surface. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17594-17599.	13.8	33
115	Surface Roughness Standards, Obtained with the Scanning Tunneling Microscope Operated at Atmospheric Air Pressure. <i>Metrologia</i> , 1985, 21, 135-138.	1.2	32
116	Novel Microscopic Mechanism of Intermixing during Growth on Soft Metallic Substrates. <i>Physical Review Letters</i> , 2000, 84, 4397-4400.	7.8	32
117	Self-Organized Hexagonal Patterns of Independent Magnetic Nanodots. <i>Advanced Materials</i> , 2007, 19, 4375-4380.	21.0	32
118	Thermal stability of Cu and Fe nitrides and their applications for writing locally spin valves. <i>Applied Physics Letters</i> , 2009, 94, 263112.	3.3	32
119	Diffraction and reactive scattering of H ₂ from Ru(0001): experimental and theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 8583.	2.8	32
120	Vectorial Kerr magnetometer for simultaneous and quantitative measurements of the in-plane magnetization components. <i>Review of Scientific Instruments</i> , 2014, 85, 053904.	1.3	32
121	Adsorption of potassium and oxygen on GaAs(110): Charge transfer and enhanced oxidation. <i>Physical Review B</i> , 1989, 39, 12751-12757.	3.2	31
122	Crystallography of epitaxial face centered tetragonal Co/Cu(100) by low energy electron diffraction. <i>Journal of Magnetism and Magnetic Materials</i> , 1993, 121, 65-68.	2.3	31
123	The structure of Co films on Cu(111) up to 15 ML. <i>Surface Science</i> , 1996, 352-354, 46-49.	1.9	31
124	Iron silicides grown on Si(100): metastable and stable phases. <i>Surface Science</i> , 1997, 371, 297-306.	1.9	31
125	1D Lattice Distortions as the Origin of the (2 × 2) p4gm Reconstruction in $\sqrt{3} \times \sqrt{3} \text{Fe}_4\text{N}(100)$: A Magnetism-Induced Surface Reconstruction. <i>Physical Review Letters</i> , 2005, 95, 136102.	7.8	31
126	In-Plane and Out-of-Plane Diffraction of H ₂ from Ru(001). <i>Journal of Physical Chemistry A</i> , 2011, 115, 7283-7290.	2.5	31

#	ARTICLE	IF	CITATIONS
127	Determination of the Fe/Si(111) phase diagram by means of photoelectron spectroscopies. Surface Science, 1993, 287-288, 490-494.	1.9	30
128	Electronic structure of ultrathin $\text{Fe}_4\text{N}(100)$ films epitaxially grown on Cu(100). Physical Review B, 2007, 75, .	3.2	30
129	High-resolution elastic and rotationally inelastic diffraction of D2 from NiAl(110). Journal of Chemical Physics, 2010, 133, 124702.	3.0	30
130	Low-energy excitations of graphene on Ru(0 0 0 1). Carbon, 2015, 93, 1-10.	10.3	30
131	The phenotype of target pancreatic cancer cells influences cell death by magnetic hyperthermia with nanoparticles carrying gemcitabine and the pseudo-peptide NucAnt. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 20, 101983.	3.3	30
132	A new metastable epitaxial silicide: $\text{FeSi}_2/\text{Si}(111)$. Ultramicroscopy, 1992, 42-44, 845-850.	1.9	29
133	Magnetisation reversal of epitaxial films of Fe_4N on Cu(100). Journal of Magnetism and Magnetic Materials, 2007, 316, 321-324.	2.3	29
134	An ellipsoidal mirror for focusing neutral atomic and molecular beams. New Journal of Physics, 2010, 12, 033018.	2.9	29
135	A high-reflectivity, ambient-stable graphene mirror for neutral atomic and molecular beams. Applied Physics Letters, 2011, 99, .	3.3	29
136	Unveiling the radiative local density of optical states of a plasmonic nanocavity by STM. Nature Communications, 2020, 11, 1021.	12.8	29
137	Characterization of surface roughness in titanium dental implants measured with scanning tunnelling microscopy at atmospheric pressure. Biomaterials, 1986, 7, 463-466.	11.4	28
138	Epitaxy and magnetic properties of fcc cobalt films on Cu(100). Vacuum, 1990, 41, 503-505.	3.5	28
139	The growth and characterization of iron silicides on Si(100). Surface Science, 1991, 251-252, 59-63.	1.9	28
140	Geometric and electronic structure of epitaxial iron silicides. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1993, 11, 929-933.	2.1	28
141	Enantiospecific Spin Polarization of Electrons Photoemitted Through Layers of Homochiral Organic Molecules. Advanced Materials, 2014, 26, 7474-7479.	21.0	28
142	Temperature-controlled metal/ligand stoichiometric ratio in Ag-TCNE coordination networks. Journal of Chemical Physics, 2015, 142, 101930.	3.0	28
143	Electron-phonon coupling in superconducting 1T-PdTe_2 . Npj 2D Materials and Applications, 2021, 5, .	7.9	28
144	Interaction of potassium with $\text{Si}(100)2 \text{ \AA}^{-1}$. Vacuum, 1990, 41, 564-566.	3.5	27

#	ARTICLE	IF	CITATIONS
145	Growth of K, Rb and Cs on GaAs(110). Applied Surface Science, 1992, 56-58, 211-217.	6.1	27
146	Crystallography and morphology of the early stages of the growth of by LEED and STM. Surface Science, 1996, 349, L139-L145.	1.9	27
147	Acoustic surface phonons of graphene on Ni(111). Carbon, 2016, 99, 416-422.	10.3	27
148	Structural characterisation and homoepitaxial growth on Cu(111). Surface Science, 2000, 459, 191-205.	1.9	26
149	Thickness-dependent coercivity of ultrathin Co films grown on Cu(111). Journal of Physics Condensed Matter, 2000, 12, 7713-7719.	1.8	26
150	Relationship between strain and the surface electronic structure of Cu(111) films on Ru(0001): Theory and experiment. Physical Review B, 2005, 71, .	3.2	26
151	Anisotropic surface coupling while sliding on dolomite and calcite crystals. Physical Review B, 2012, 85, .	3.2	26
152	Dysprosium-carboxylate nanomeshes with tunable cavity size and assembly motif through ionic interactions. Chemical Communications, 2016, 52, 11227-11230.	4.1	26
153	Observation of Localized Vibrational Modes of Graphene Nanodomains by Inelastic Atom Scattering. Nano Letters, 2016, 16, 2-7.	9.1	26
154	Phase diagram of sulphur on Mo(110). Surface Science, 1986, 171, 157-169.	1.9	25
155	Tuning Schottky Barriers by atomic layer control at metal/semiconductor interfaces. Advanced Materials, 1994, 6, 540-548.	21.0	25
156	Epitaxial growth of metals with high Ehrlich-Schwoebel barriers and the effect of surfactants. Applied Physics A: Materials Science and Processing, 1999, 69, 553-557.	2.3	25
157	Self-assembled magnetic nitride dots on Cu(100) surfaces. Physical Review B, 2004, 69, .	3.2	25
158	Experimental determination of surface thermal expansion and electron-phonon coupling constant of 1T-PtTe ₂ . 2D Materials, 2020, 7, 025007.	4.4	25
159	Magnetic exchange splitting of a quasi two-dimensional hexagonal close packed layer of cobalt. Surface Science, 1982, 117, 319-329.	1.9	24
160	Role of anisotropy configuration in exchange-biased systems. Journal of Applied Physics, 2011, 109, .	2.5	24
161	Probing the Site-Dependent Kondo Response of Nanostructured Graphene with Organic Molecules. Nano Letters, 2014, 14, 4560-4567.	9.1	24
162	Long-Range Orientational Self-Assembly, Spatially Controlled Deprotonation, and Off-Centered Metalation of an Expanded Porphyrin. Journal of the American Chemical Society, 2017, 139, 14129-14136.	13.7	23

#	ARTICLE	IF	CITATIONS
163	Surfactant-induced surface restructuring: (4Å—4)-Pb/Cu(111). Journal of Physics Condensed Matter, 2001, 13, 1793-1803.	1.8	22
164	Energy dependence of diffractive and rotationally inelastic scattering of D2 from NiAl(110). Journal of Chemical Physics, 2002, 117, 2255-2263.	3.0	22
165	Formation of a non-magnetic metallic iron nitride layer on bcc Fe(100). New Journal of Physics, 2010, 12, 073004.	2.9	22
166	Role of Deprotonation and Cu Adatom Migration in Determining the Reaction Pathways of Oxalic Acid Adsorption on Cu(111). Journal of Physical Chemistry C, 2011, 115, 21177-21182.	3.1	22
167	Understanding the self-assembly of TCNQ on Cu(111): a combined study based on scanning tunnelling microscopy experiments and density functional theory simulations. RSC Advances, 2016, 6, 15071-15079.	3.6	22
168	Efficient Lanthanide Catalyzed Debromination and Oligomeric Length-Controlled Ullmann Coupling of Aryl Halides. Journal of Physical Chemistry C, 2017, 121, 8033-8041.	3.1	22
169	Experimental Evidence of a Roughening Transition in Adsorbed Xenon Multilayers. Physical Review Letters, 1983, 51, 782-785.	7.8	21
170	Metastable iron silicide phase stabilized by surface segregation on Fe3Si(100). Surface Science, 1997, 381, 133-141.	1.9	21
171	Role of surface geometry and electronic structure in STM images of O/Ru(0001). Chemical Physics Letters, 2005, 405, 131-135.	2.6	21
172	Periodically modulated geometric and electronic structure of graphene on Ru(0 0 0 1). Semiconductor Science and Technology, 2010, 25, 034001.	2.0	21
173	Interface Formation between MBa ₂ Cu ₃ O _{7-δ} (M = Y, Sm) and the Monovalent Metals Ag and Rb. Europhysics Letters, 1988, 6, 555-560.	2.0	20
174	Bimodal island-size distributions in submonolayer growth. Physical Review B, 2001, 64, .	3.2	20
175	Nonstochastic Behavior of Atomic Surface Diffusion on Cu(111) down to Low Temperatures. Physical Review Letters, 2004, 93, 166107.	7.8	20
176	Vázquez de Parga et al. Reply. Physical Review Letters, 2008, 101, .	7.8	20
177	Symmetry breaking effects in epitaxial magnetic thin films: Nonsymmetric reversal and butterfly remanence behavior. Physical Review B, 2008, 77, .	3.2	20
178	Atomic jumps during surface diffusion. Physical Review B, 2009, 79, .	3.2	20
179	The endocytic penetration mechanism of iron oxide magnetic nanoparticles with positively charged cover: A morphological approach. International Journal of Molecular Medicine, 2010, 26, 533-9.	4.0	20
180	High yielding and extremely site-selective covalent functionalization of graphene. Chemical Communications, 2017, 53, 10418-10421.	4.1	20

#	ARTICLE	IF	CITATIONS
181	A scanning tunnelling microscopy view of the surfactant-assisted growth of iron on Cu(111). <i>Surface Science</i> , 2000, 462, 45-54.	1.9	19
182	Subphthalocyanine-based nanocrystals. <i>Chemical Communications</i> , 2011, 47, 9986.	4.1	19
183	Controlling the spatial arrangement of organic magnetic anions adsorbed on epitaxial graphene on Ru(0001). <i>Nanoscale</i> , 2014, 6, 15271-15279.	5.6	19
184	Design of a cryo-UHV sample holder with unrestricted manipulation. <i>Journal of Physics E: Scientific Instruments</i> , 1984, 17, 22-24.	0.7	18
185	Real-Space Direct Visualization of the Layer-Dependent Roughening Transition in Nanometer-Thick Pb Films. <i>Physical Review Letters</i> , 2006, 97, 186104.	7.8	18
186	Quantum oscillations in surface properties. <i>Surface Science</i> , 2009, 603, 1389-1396.	1.9	17
187	Detecting stacking faults during epitaxial growth by low energy electron diffraction. <i>Surface Science</i> , 1996, 345, 320-330.	1.9	16
188	Direct evidence for complete antiferromagnetic coupling between Co films epitaxially grown on Cu(111). <i>Physical Review Letters</i> , 2006, 97, 186104.	2.9	16
189	Surfactant action in heteroepitaxy: Growth of Co on (4 \times 4)Pb/Cu(111) studied by LEED and STM. <i>Physical Review B</i> , 2000, 62, 5144-5149.	3.2	16
190	Growth and Structure of Self-assembled Monolayers of a TTF Derivative on Au(111). <i>Journal of Physical Chemistry C</i> , 2010, 114, 6503-6510.	3.1	16
191	Magnetization reversal in half metallic La _{0.7} Sr _{0.3} MnO ₃ films grown onto vicinal surfaces. <i>Journal of Applied Physics</i> , 2011, 109, 07B107.	2.5	16
192	Helium, neon and argon diffraction from Ru(0001). <i>Journal of Physics Condensed Matter</i> , 2012, 24, 354002.	1.8	16
193	Enhanced selectivity towards O ₂ and H ₂ dissociation on ultrathin Cu films on Ru(0001). <i>Journal of Chemical Physics</i> , 2012, 137, 074706.	3.0	16
194	Ordered arrays of metal-organic magnets at surfaces. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 484007.	1.8	16
195	Charge transfer-assisted self-limited decyanation reaction of TCNQ-type electron acceptors on Cu(100). <i>Chemical Communications</i> , 2014, 50, 833-835.	4.1	16
196	On-Surface Synthesis of Ethynylene-Bridged Anthracene Polymers. <i>Angewandte Chemie</i> , 2019, 131, 6631-6635.	2.0	16
197	Enhancement of oxidation in nickel (001) surface bombarded with argon ions. <i>Solid State Communications</i> , 1980, 35, 83-85.	1.9	15
198	Surface structure of α -FeSi ₂ (101) epitaxially grown on Si(111). <i>Applied Physics A: Solids and Surfaces</i> , 1993, 57, 477-482.	1.4	15

#	ARTICLE	IF	CITATIONS
199	The structural characterization of Co-Cu(100) superlattices by X-ray absorption spectroscopy. Journal of Physics Condensed Matter, 1994, 6, 4981-4990.	1.8	15
200	Magnetization reversal signatures in the magnetoresistance of magnetic multilayers. Physical Review B, 2012, 86, .	3.2	15
201	H ₂ Diffraction from a Strained Pseudomorphic Monolayer of Cu Deposited on Ru(0001). Journal of Physical Chemistry C, 2012, 116, 13671-13678.	3.1	15
202	Environment-driven reactivity of H ₂ on PdRu surface alloys. Physical Chemistry Chemical Physics, 2013, 15, 14936.	2.8	15
203	The first stages of epitaxial growth of Pb atoms on Cu(100) studied by scattering of thermal helium. Surface Science, 1986, 178, 917-926.	1.9	14
204	Helium scattering study of the growth mechanism and phase transitions of Pb overlayers on Cu(100). Journal of Applied Physics, 1987, 61, 1239-1241.	2.5	14
205	Surface morphology of semiconducting iron silicides grown on Si(111). Surface Science, 1992, 264, 45-54.	1.9	14
206	Confining surface state electrons in less than two dimensions: A spectroscopic study. Applied Physics A: Materials Science and Processing, 1995, 61, 609-613.	2.3	14
207	Surfactant effect of Pb in the growth of Fe on Cu(111): a kinetic effect. Physical Review B, 2001, 65, .	3.2	14
208	Diradical Organic One-Dimensional Polymers Synthesized on a Metallic Surface. Angewandte Chemie, 2020, 132, 17747-17752.	2.0	14
209	Synthesis and Characterization of <i>peri</i> -Heptacene on a Metallic Surface. Angewandte Chemie - International Edition, 2022, 61, .	13.8	14
210	Application to biology and technology of the scanning tunneling microscope operated in air at ambient pressure. IBM Journal of Research and Development, 1986, 30, 380-386.	3.1	13
211	Thermally induced oxidation of GaAs(110) by a Rb oxide overlayer. Physical Review B, 1989, 39, 10387-10389.	3.2	13
212	Growth of epitaxial iron disilicide on Si(100). Surface Science, 1992, 269-270, 1016-1021.	1.9	13
213	Influence of film morphology on perpendicular magnetic anisotropy. Physical Review B, 2001, 64, .	3.2	13
214	Si(111)-H(1 $\bar{1}$ -1): A mirror for atoms characterized by AFM, STM, He and H ₂ diffraction. Surface Science, 2007, 601, 24-29.	1.9	13
215	Magnetostatics and the rotational sense of cycloidal spin spirals. Physical Review B, 2011, 84, .	3.2	13
216	Highly reproducible low temperature scanning tunneling microscopy and spectroscopy with in situ prepared tips. Ultramicroscopy, 2012, 122, 1-5.	1.9	13

#	ARTICLE	IF	CITATIONS
217	Note: Vectorial-magneto optical Kerr effect technique combined with variable temperature and full angular range all in a single setup. <i>Review of Scientific Instruments</i> , 2015, 86, 046109.	1.3	13
218	Characterization of interlayer forces in 2D heterostructures using neutral atom scattering. <i>2D Materials</i> , 2018, 5, 045002.	4.4	13
219	Tailored Functionalized Magnetic Nanoparticles to Target Breast Cancer Cells Including Cancer Stem-Like Cells. <i>Cancers</i> , 2020, 12, 1397.	3.7	13
220	Large Perpendicular Magnetic Anisotropy in Nanometer-Thick Epitaxial Graphene/Co/Heavy Metal Heterostructures for Spinâ€“Orbitronics Devices. <i>ACS Applied Nano Materials</i> , 2021, 4, 4398-4408.	5.0	13
221	Nanostructured gold electrodes promote neural maturation and network connectivity. <i>Biomaterials</i> , 2021, 279, 121186.	11.4	13
222	Influence of argon bombardment on the reactivity of (110) platinum with oxygen. <i>Journal of Chemical Physics</i> , 1980, 72, 6614-6619.	3.0	12
223	The effect of argon bombardment on the oxidation of Fe(110) by oxygen and water. <i>Solid State Communications</i> , 1982, 44, 1461-1463.	1.9	12
224	Enhanced oxidation of GaAs(110) by adsorbed K atoms. <i>Surface Science</i> , 1989, 211-212, 1106-1112.	1.9	12
225	Oscillatory magnetic coupling in cobalt/copper epitaxial layers: The surface science approach. <i>Physica Scripta</i> , 1993, T49B, 579-583.	2.5	12
226	Surface electronic structure of metastable FeSi(CsCl)(111) epitaxially grown on Si(111). <i>Physical Review B</i> , 1997, 55, R16065-R16068.	3.2	12
227	Initial growth of Fe on Au(100): preferential nucleation, place exchange and enhanced mass transport. <i>Applied Physics A: Materials Science and Processing</i> , 1998, 66, S1117-S1120.	2.3	12
228	Magnetic dichroism study of the valence-band structure of perpendicularly magnetized Co/Cu(111). <i>Physical Review B</i> , 1998, 57, 5340-5346.	3.2	12
229	Templated growth of an ordered array of organic bidimensional mesopores. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	12
230	Crystallographic and electronic contribution to the apparent step height in nanometer-thin Pb(111) films grown on Cu(111). <i>New Journal of Physics</i> , 2009, 11, 123003.	2.9	12
231	Direct experimental determination of the anisotropic magnetoresistive effects. <i>Applied Physics Letters</i> , 2014, 104, 202407.	3.3	12
232	Large-Area Heterostructures from Graphene and Encapsulated Colloidal Quantum Dots via the Langmuirâ€“Blodgett Method. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 6805-6809.	8.0	12
233	Dysprosium-directed metallosupramolecular network on graphene/Ir(111). <i>Chemical Communications</i> , 2021, 57, 1380-1383.	4.1	12
234	Strain-induced enhanced solubility of Au in epitaxial films of Fe. <i>Surface Science</i> , 1996, 364, L505-L510.	1.9	11

#	ARTICLE	IF	CITATIONS
235	Structure and morphology of epitaxial Cu/Co bilayers grown on Cu(111) with Pb as a surfactant. Surface Science, 2000, 454-456, 736-740.	1.9	11
236	Imaging of magnetic nanodots on self-organized semiconductor substrates. Physical Review B, 2005, 71, .	3.2	11
237	Experimental and theoretical study of rotationally inelastic diffraction of D2 from NiAl(110). Physical Chemistry Chemical Physics, 2010, 12, 14501.	2.8	11
238	Tuning Intermolecular Charge Transfer in Donor-acceptor Two-Dimensional Crystals on Metal Surfaces. Journal of Physical Chemistry C, 2017, 121, 23505-23510.	3.1	11
239	Emergence of the Stoner-Wohlfarth astroid in thin films at dynamic regime. Scientific Reports, 2017, 7, 13474.	3.3	11
240	Spin-Orbit Torque from the Introduction of Cu Interlayers in Pt/Cu/Co/Pt Nanolayered Structures for Spintronic Devices. ACS Applied Nano Materials, 2021, 4, 487-492.	5.0	11
241	Study of the electronic structure of iron silicides grown on Si(100)2 Å-1 by reactive deposition epitaxy. Surface Science, 1992, 269-270, 1011-1015.	1.9	10
242	Electronic band structure of epitaxial $\text{FeSi}(111)/\text{Si}(111)$. Physical Review B, 1998, 57, 1414-1417.	3.2	10
243	On the influence of incident angle in the scattering dynamics of D2 from NiAl(110). Chemical Physics Letters, 2002, 359, 127-134.	2.6	10
244	Epitaxial growth of CaF2(111) on Cu(111) visualized by STM. Surface Science, 2005, 582, 14-20.	1.9	10
245	The adsorption of atomic N and the growth of copper nitrides on Cu(1 0 0). Surface Science, 2009, 603, 2283-2289.	1.9	10
246	Imaging and quantifying perpendicular exchange biased systems by soft x-ray holography and spectroscopy. Applied Physics Letters, 2010, 96, 072503.	3.3	10
247	Exploring the limits of soft x-ray magnetic holography: Imaging magnetization reversal of buried interfaces (invited). Journal of Applied Physics, 2011, 109, 07D357.	2.5	10
248	Morphology and thermal stability of AlF3 thin films grown on Cu(100). Surface Science, 2012, 606, 573-579.	1.9	10
249	Thermally Activated Processes for Ferromagnet Intercalation in Graphene-Heavy Metal Interfaces. ACS Applied Materials & Interfaces, 2020, 12, 4088-4096.	8.0	10
250	On-surface synthesis of doubly-linked one-dimensional pentacene ladder polymers. Chemical Communications, 2020, 56, 15309-15312.	4.1	10
251	Studies of surface diffusion and growth on Cu(111) by means of thermal energy atom scattering. Journal of Physics Condensed Matter, 2002, 14, 6155-6172.	1.8	9
252	Experimental investigation of the spin reorientation of Co/Au -based magnetic nanodot arrays. Physical Review B, 2008, 77, .	3.2	9

#	ARTICLE	IF	CITATIONS
253	An STM study of molecular exchange processes in organic thin film growth. <i>Chemical Communications</i> , 2014, 50, 9954-9957.	4.1	9
254	Interfacial exchange-coupling induced chiral symmetry breaking of spin-orbit effects. <i>Physical Review B</i> , 2015, 92, .	3.2	9
255	Encapsulating Chemically Doped Graphene via Atomic Layer Deposition. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 8190-8196.	8.0	9
256	Graphene catalyzes the reversible formation of a C-C bond between two molecules. <i>Science Advances</i> , 2018, 4, eaau9366.	10.3	9
257	A Comparative Computational Study of the Adsorption of TCNQ and F4-TCNQ on the Coinage Metal Surfaces. <i>ACS Omega</i> , 2019, 4, 16906-16915.	3.5	9
258	Efficient photogeneration of nonacene on nanostructured graphene. <i>Nanoscale Horizons</i> , 2021, 6, 744-750.	8.0	9
259	Cumulene-like bridged indeno[1,2-b]fluorene π -conjugated polymers synthesized on metal surfaces. <i>Chemical Communications</i> , 2021, 57, 7545-7548.	4.1	9
260	Engineering the spin conversion in graphene monolayer epitaxial structures. <i>APL Materials</i> , 2021, 9, .	5.1	9
261	Structural phase transition during heteroepitaxial growth of iron silicides on Si(111). <i>Applied Surface Science</i> , 1993, 70-71, 578-582.	6.1	8
262	Surfactant-assisted epitaxial growth and magnetism of Fe films on Cu(111). <i>Journal of Physics Condensed Matter</i> , 2008, 20, 265008.	1.8	8
263	Borca et al. Reply. <i>Physical Review Letters</i> , 2010, 105, .	7.8	8
264	Surface assembly of porphyrin nanorods with one-dimensional zinc-oxygen spinal cords. <i>CrystEngComm</i> , 2011, 13, 5591.	2.6	8
265	Periodic spatial variation of the electron-phonon interaction in epitaxial graphene on Ru(0001). <i>Applied Physics Letters</i> , 2013, 102, .	3.3	8
266	Mapping spin distributions in electron acceptor molecules adsorbed on nanostructured graphene by the Kondo effect. <i>Surface Science</i> , 2014, 630, 356-360.	1.9	8
267	Sub-nT Resolution of Single Layer Sensor Based on the AMR Effect in $\text{La}_{2/3}\text{Sr}_{1/3}\text{MnO}_3$ Thin Films. <i>IEEE Transactions on Magnetics</i> , 2022, 58, 1-4.	2.1	8
268	Electronic Temperature and Two-Electron Processes in Overbias Plasmonic Emission from Tunnel Junctions. <i>Nano Letters</i> , 2021, 21, 7086-7092.	9.1	8
269	Tuning the Magnetic Anisotropy of Lanthanides on a Metal Substrate by Metal-Organic Coordination. <i>Small</i> , 2021, 17, e2102753.	10.0	8
270	Thermal Energy Atomic and Molecular Beam Diffraction from Solid Surfaces. <i>Springer Series in Surface Sciences</i> , 2013, , 51-73.	0.3	8

#	ARTICLE	IF	CITATIONS
271	Engineering Periodic Dinuclear Lanthanide-Directed Networks Featuring Tunable Energy Level Alignment and Magnetic Anisotropy by Metal Exchange. <i>Small</i> , 2022, 18, e2107073.	10.0	8
272	Summary Abstract: Influence of ion irradiation on surface reactivity. <i>Journal of Vacuum Science and Technology</i> , 1981, 18, 596-597.	1.9	7
273	Interface formation of Bi-based high-T _c superconductors with Mg and Ag. <i>European Physical Journal B</i> , 1989, 74, 191-195.	1.5	7
274	Valency and covalency in high-T _c -superconductors from x-ray absorption. <i>Physica C: Superconductivity and Its Applications</i> , 1989, 162-164, 1331-1332.	1.2	7
275	Neutron-diffraction study on the field dependent magnetic ordering in Co ²⁺ /Cu superlattices. <i>Journal of Magnetism and Magnetic Materials</i> , 1991, 93, 89-94.	2.3	7
276	Surface dangling bond state in Si(111) and epitaxial $\hat{1}^2$ -FeSi ₂ films: a comparative photoelectron spectroscopy study. <i>Surface Science</i> , 1995, 330, 34-40.	1.9	7
277	Relating Surface Structure and Growth Mode of $\hat{1}^3$ -Fe ₄ N. <i>Surface Review and Letters</i> , 2003, 10, 405-411.	1.1	7
278	Observing the lateral confinement of surface state electrons in room temperature stable metallic nanostructures. <i>European Physical Journal B</i> , 2004, 40, 415-419.	1.5	7
279	A high-reflectivity atom-focusing mirror stable at room temperature. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	7
280	Local characterization of the optical properties of annealed Au films on glass substrates. <i>Journal of Applied Physics</i> , 2013, 114, 164312.	2.5	7
281	g-force induced giant efficiency of nanoparticles internalization into living cells. <i>Scientific Reports</i> , 2015, 5, 15160.	3.3	7
282	Preservation of electronic properties of double-decker complexes on metallic supports. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 8282-8287.	2.8	7
283	Magnetic ordering in an (Fe _{0.2} Cr _{0.8}) _{1.5} [Cr(CN) ₆] Prussian blue analogue studied with synchrotron radiation based spectroscopies. <i>Journal of Materials Chemistry C</i> , 2018, 6, 8171-8186.	5.5	7
284	Electrical and geometrical tuning of MoS ₂ field effect transistors <i>via</i> direct nanopatterning. <i>Nanoscale</i> , 2019, 11, 11152-11158.	5.6	7
285	Evidence for a spin acoustic surface plasmon from inelastic atom scattering. <i>Scientific Reports</i> , 2021, 11, 1506.	3.3	7
286	Surface-Assisted Synthesis of N-Containing Conjugated Polymers. <i>Advanced Science</i> , 2022, 9, .	11.2	7
287	Large Finite-Size Effect on the Critical Temperature of Adsorbed Layers: Xe on Pd [8(100) Å–(110)]. <i>Physical Review Letters</i> , 1984, 53, 822-825.	7.8	6
288	Electronic structure of high-T _c superconductors: Effects of oxygen stoichiometry and surface reactions with alkali metals. <i>Physica C: Superconductivity and Its Applications</i> , 1988, 153-155, 141-142.	1.2	6

#	ARTICLE	IF	CITATIONS
289	Epitaxial growth of metals: from monolayer to superlattice. <i>Vacuum</i> , 1990, 41, 482-484.	3.5	6
290	Local versus non-local character of the alkali-promoted oxidation of silicon. <i>Vacuum</i> , 1990, 41, 787-789.	3.5	6
291	Tailoring epitaxial growth of low-dimensional magnetic structures by using surfactants. <i>Surface Science</i> , 1998, 402-404, 346-350.	1.9	6
292	A combined LEIS/STM study of two types of surface reconstruction of magnetic Fe ₄ N layers. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004, 219-220, 593-598.	1.4	6
293	Magnetic and magneto-optical properties of epitaxial cobalt films grown on a corrugated CaF ₂ /Si surface. <i>Physics of the Solid State</i> , 2007, 49, 1481-1491.	0.6	6
294	Formation of Self-Assembled Chains of Tetrathiafulvalene on a Cu(100) Surface. <i>Journal of Physical Chemistry A</i> , 2011, 115, 13080-13087.	2.5	6
295	Initial Sticking Coefficient of H ₂ on the Pd/Cu(111) Surface Alloy at very Low Coverages. <i>Zeitschrift Fur Physikalische Chemie</i> , 2013, 227, .	2.8	6
296	Photoinduced effects on the magnetic properties of the (Fe _{0.2} Cr _{0.8}) _{1.5} [Cr(CN) ₆] Prussian blue analogue. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2305-2317.	5.5	6
297	Atomic Scale Engineering of Superlattices and Magnetic Wires. <i>Materials Research Society Symposia Proceedings</i> , 1995, 384, 49.	0.1	5
298	Surfactant-induced structures in the heteroepitaxial growth of Co on Cu(111). <i>Journal of Physics Condensed Matter</i> , 2001, 13, 9897-9911.	1.8	5
299	Metal-Coordination Network vs Charge Transfer Complex: The Importance of the Surface. <i>Journal of Physical Chemistry C</i> , 2020, 124, 7922-7929.	3.1	5
300	Synthesis and Characterization of <i>peri</i> -Heptacene on a Metallic Surface. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	5
301	Local characterization of ultrathin oxides on silicon wafers by scanning tunneling microscopy. <i>Vacuum</i> , 1990, 41, 784-786.	3.5	4
302	Magnetic relaxation in single-crystal Co/Cu(100) superlattices. <i>Physical Review B</i> , 1997, 55, 11080-11083.	3.2	4
303	Reduced coercivity in ferromagnetic Co/Cu coevaporated epitaxial films on Cu(111). <i>Applied Physics Letters</i> , 2000, 77, 889-891.	3.3	4
304	Effects of reduced dimensionality on the magnetic properties of ultrathin (Co/Cu)[111] films. <i>Journal of Applied Physics</i> , 2001, 89, 7150-7152.	2.5	4
305	Growth of Co and Fe on Cu(111): experiment and BFS based calculations. <i>Applied Surface Science</i> , 2003, 219, 80-87.	6.1	4
306	Anisotropy in two-dimensional arrays of collinear in-plane rotated identical particles with arbitrary charge or polarization distribution. <i>Physical Review B</i> , 2008, 78, .	3.2	4

#	ARTICLE	IF	CITATIONS
307	Cu diffusion as an alternative method for nanopatterned CuTCNQ film growth. Journal of Physics Condensed Matter, 2016, 28, 185002.	1.8	4
308	Thermal Transition from a Disordered, 2D Network to a Regular, 1D, Fe(II)â€“DCNQI Coordination Network. Journal of Physical Chemistry C, 2016, 120, 16712-16721.	3.1	4
309	Reactivity of O2 on Pd/Ru(0001) and PdRu/Ru(0001) surface alloys. Journal of Chemical Physics, 2017, 146, 204701.	3.0	4
310	Resolving localized phonon modes on graphene/Ir(111) by inelastic atom scattering. Carbon, 2018, 133, 31-38.	10.3	4
311	Lanthanide-porphyrin species as Kondo irreversible switches through tip-induced coordination chemistry. Nanoscale, 2021, 13, 8600-8606.	5.6	4
312	Summary Abstract: On the geometric and electronic structure of K on Si(100)2Å–1. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1987, 5, 653-654.	2.1	3
313	MODELING OF Co/Cu ISLAND FORMATION ON A Cu(111) SURFACE. Surface Review and Letters, 2004, 11, 591-597.	1.1	3
314	Thermal stability of atomically flat metal nanofilms on metallic substrates. Applied Surface Science, 2007, 254, 12-15.	6.1	3
315	Growth of Textured Adenine Thin Films to Exhibit only Chiral Faces. ChemPhysChem, 2011, 12, 1267-1271.	2.1	3
316	Charge-Transfer-Induced Isomerization of DCNQI on Cu(100). Journal of Physical Chemistry C, 2014, 118, 27388-27392.	3.1	3
317	Atomic mechanisms and diffusion anisotropy of Cu tetramers on Cu(111). Physical Review B, 2014, 90, .	3.2	3
318	Direct observation of temperature-driven magnetic symmetry transitions by vectorial resolved MOKE magnetometry. Journal of Physics Condensed Matter, 2017, 29, 405805.	1.8	3
319	Coverage evolution of the unoccupied Density of States in sulfur superstructures on Ru(0001). Applied Surface Science, 2018, 433, 300-305.	6.1	3
320	Confining surface state electrons in less than two dimensions: A spectroscopic study. Applied Physics A: Materials Science and Processing, 1995, 61, 609-613.	2.3	3
321	Setting the limit for the lateral thermal expansion of layered crystals <i>via</i> helium atom scattering. Physical Chemistry Chemical Physics, 2022, 24, 13229-13233.	2.8	3
322	Phase control and lateral heterostructures of MoTe₂ epitaxially grown on graphene/Ir(111). Nanoscale, 2022, 14, 10880-10888.	5.6	3
323	Large Finite-Size Effect on the Critical Temperature of Adsorbed Layers: Xe on Pd[8(100) Å– (110)]. Physical Review Letters, 1984, 53, 1509-1509.	7.8	2
324	Lateral interactions between sulphur atoms adsorbed on Mo(110). Vacuum, 1987, 37, 455-456.	3.5	2

#	ARTICLE	IF	CITATIONS
325	MAGNETISM AND STRUCTURE IN EPITAXIAL SYSTEMS OF REDUCED DIMENSIONALITY. Surface Review and Letters, 1997, 04, 327-334.	1.1	2
326	Surfactant control of growth and interface quality in granular magnetic {CoCu}/Cu(111) superlattices. Surface Science, 2001, 482-485, 1077-1082.	1.9	2
327	Atomistic Modeling Of Co Growth On Cu(111). Materials Research Society Symposia Proceedings, 2001, 696, 1.	0.1	2
328	Properties of dislocation half loops inAu(100): Structure, formation energy, and diffusion barrier. Physical Review B, 2004, 70, .	3.2	2
329	Onset of Chiral Adenine Surface Growth. ChemPhysChem, 2013, 14, 3294-3302.	2.1	2
330	Two-dimensional chiral asymmetry in unidirectional magnetic anisotropy structures. AIP Advances, 2016, 6, 055819.	1.3	2
331	Collective concerted motion in a molecular adlayer visualized through the surface diffusion of isolated vacancies. Journal of Chemical Physics, 2016, 145, 154706.	3.0	2
332	Electronic Properties of Sulfur Covered Ru(0001) Surfaces. Journal of Physical Chemistry A, 2018, 122, 2232-2240.	2.5	2
333	Neon diffraction from graphene on Ru(0001). Surface Science, 2018, 678, 52-56.	1.9	2
334	Transparency revealed. Nature Materials, 2018, 17, 952-953.	27.5	2
335	Discrete Electronic Subbands due to Bragg Scattering at Molecular Edges. Physical Review Letters, 2019, 122, 176801.	7.8	2
336	Interfacial Exchange Phenomena Driven by Ferromagnetic Domains. Advanced Materials Interfaces, 2022, 9, .	3.7	2
337	New experimental studies on the adsorption of K on Si(100) and Si(111). Surface Science Letters, 1986, 177, L947-L955.	0.1	1
338	Summary Abstract: Helium scattering study of the initial stages of growth of Pb overlayers on Cu(100). Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1987, 5, 888-889.	2.1	1
339	A structural characterization of the buffer layer for growth of magnetically coupled Co/Cu superlattices. Journal of Magnetism and Magnetic Materials, 1993, 121, 20-23.	2.3	1
340	Metallic nanoislands: preferential nucleation, intermixing and electronic states. Journal of Physics Condensed Matter, 2002, 14, 4187-4198.	1.8	1
341	Substrate-induced magnetic anisotropy in La _{0.7} Sr _{0.3} MnO ₃ epitaxial thin films grown onto (110) and (111 _̄ ,8) SrTiO ₃ substrates. Journal of Physics: Conference Series, 2011, 303, 012058.	0.4	1
342	A helium atom scattering study of well-ordered TCNQ adlayers on Cu(100). Surface Science, 2014, 620, 65-69.	1.9	1

#	ARTICLE	IF	CITATIONS
343	Scanning tunneling microscopy (STM) of graphene. , 2014, , 124-155.		1
344	Robust, carbon related, superconducting nanostructure at the apex of a tungsten STM tip. Applied Physics Letters, 2019, 115, 073108.	3.3	1
345	Time-of-flight measurements of the low-energy scattering of CH ₄ from Ir(111). Physical Chemistry Chemical Physics, 2021, 23, 7830-7836.	2.8	1
346	Scanning tunneling microscopy (STM) of graphene. , 2021, , 345-379.		1
347	On the Magnetic Properties of Ultrathin Epitaxial Cobalt Films and Superlattices. NATO ASI Series Series B: Physics, 1990, , 483-499.	0.2	1
348	Correlation of Crystalline and Electronic Structure in Epitaxial FCC-Cobalt Monolayers on Cu(100). NATO ASI Series Series B: Physics, 1991, , 37-40.	0.2	1
349	Electronic structure of a cobalt monolayer on Cu(100). Surface Science Letters, 1983, 130, A274.	0.1	0
350	Thermodynamics of the roughening transition in stepped surfaces. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1984, 127, 175-179.	0.9	0
351	Potassium interaction with Si(100)2 \times 1 surface. Vacuum, 1990, 40, 230.	3.5	0
352	Characterization of new materials by surface-sensitive techniques. Surface Science, 1991, 251-252, 64-72.	1.9	0
353	Electronic Structure of Adsorbates on Semiconductors. Handbook of Surface Science, 2000, , 863-897.	0.3	0
354	Alkali metals on semiconductors. , 0, , 179-194.		0
355	BASIC PROPERTIES OF METAL SURFACES. , 2006, , 3-28.		0
356	Uniaxial magnetic anisotropy induced by vicinal surfaces in half metallic La _{0.7} Sr _{0.3} MnO ₃ thin films. Materials Research Society Symposia Proceedings, 2009, 1198, 7.	0.1	0
357	Substrate polarization effects in two-dimensional magnetic arrays. Physical Review B, 2012, 86, .	3.2	0
358	Diffraction of H ₂ from Metal Surfaces. Springer Series in Surface Sciences, 2013, , 397-420.	0.3	0
359	Spintronics: Enantiospecific Spin Polarization of Electrons Photoemitted Through Layers of Homochiral Organic Molecules (Adv. Mater. 44/2014). Advanced Materials, 2014, 26, 7531-7531.	21.0	0
360	Towards spintronics materials for energy saving. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
361	Extraordinary exchange-bias effects in coupled SmCo ₅ (perpendicular)/CoFeB (in-plane) bilayers. , 2015, , .		0
362	Chiral asymmetry driven by unidirectional magnetic anisotropy in Spin-Orbitronic systems. Proceedings of SPIE, 2016, , .	0.8	0
363	Chiral asymmetry driven by unidirectional magnetic anisotropy in spin-orbitronic systems. , 2017, , .		0
364	Atomic View of Surfactant Action in Epitaxial Growth: From STM to Computer Simulation. , 2002, , 477-488.		0
365	Present Understanding of a Model Metal/Semiconductor Junction: K/Si(001)2x1. NATO ASI Series Series B: Physics, 1989, , 381-395.	0.2	0
366	Importance of Surface Chemistry/Catalysis in the Processing of Semiconductors. NATO ASI Series Series B: Physics, 1991, , 43-55.	0.2	0
367	On the Structural Quality of Co/Cu Trilayers and Superlattices: The Influence of the Template Layer. NATO ASI Series Series B: Physics, 1993, , 439-451.	0.2	0
368	The Growth of Cobalt/Copper Epitaxial Layers and its Relationship to the Oscillatory Magnetic Coupling. , 1994, , 141-149.		0
369	Scanning Tunneling Spectroscopy. , 2015, , 1-11.		0
370	Scanning Tunneling Spectroscopy. , 2016, , 3544-3553.		0
371	Frontiers in surface analysis: Experiments and modeling. , 2007, , 391-414.		0
372	Innentitelbild: Synthesis and Characterization of <i>peri</i> -Heptacene on a Metallic Surface (Angew. Tj ETQq0 0,0 rgBT /Qverlock 10		0
373	Engineering Periodic Dinuclear Lanthanide-Directed Networks Featuring Tunable Energy Level Alignment and Magnetic Anisotropy by Metal Exchange (Small 22/2022). Small, 2022, 18, .	10.0	0