Michael Schmid

List of Publications by Year
in descending order

297 papers	14,993 citations	13854 67 h-index	26591 107 g-index
301 all docs	301 docs citations	301 times ranked	11477 citing authors

#	Article	IF	Citations
1	Atomic-Scale Structure and Catalytic Reactivity of the RuO2(110) Surface. Science, 2000, 287, 1474-1476.	6.0	829
2	Reaction of O ₂ with Subsurface Oxygen Vacancies on TiO ₂ Anatase (101). Science, 2013, 341, 988-991.	6.0	474
3	Direct View at Excess Electrons in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>TiO</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> and Anatase. Physical Review Letters, 2014, 113, 086402.	2.9	373
4	Intrinsic defects on a TiO2(110)(1Ã—1) surface and their reaction with oxygen: a scanning tunneling microscopy study. Surface Science, 1998, 411, 137-153.	0.8	363
5	Structure of the Ultrathin Aluminum Oxide Film on NiAl(110). Science, 2005, 308, 1440-1442.	6.0	342
6	Sensors based on piezoelectric resonators. Sensors and Actuators A: Physical, 1995, 48, 1-21.	2.0	286
7	Two-Dimensional Oxide on Pd(111). Physical Review Letters, 2002, 88, 246103.	2.9	267
8	Carbon monoxide-induced adatom sintering in a Pdâ€“Fe3O4 model catalyst. Nature Materials, 2013, 12, 724-728.	13.3	249
9	Direct observation of surface chemical order by scanning tunneling microscopy. Physical Review Letters, 1993, 70, 1441-1444.	2.9	227
10	Subsurface cation vacancy stabilization of the magnetite (001) surface. Science, 2014, 346, 1215-1218.	6.0	222
11	Self-Limited Growth of a Thin Oxide Layer on Rh(111). Physical Review Letters, 2004, 92, 126102.	2.9	198
12	High-affinity adsorption leads to molecularly ordered interfaces on TiO ₂ in air and solution. Science, 2018, 361, 786-789.	6.0	190
13	Unraveling CO adsorption on model single-atom catalysts. Science, 2021, 371, 375-379.	6.0	179
14	(Sub)Surface Mobility of Oxygen Vacancies at the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>TiO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>Anatase (101) Surface. Physical Review Letters, 2012, 109, 136103.	2.9	176
15	Oxide Surface Science. Annual Review of Physical Chemistry, 2010, 61, 129-148.	4.8	168
16	Submonolayer growth of Pb on Cu(111): surface alloying and de-alloying. Surface Science, 1994, 321, 237-248.	0.8	165
17	Atomic resolution by STM on ultra-thin films of alkali halides: experiment and local density calculations. Surface Science, 1999, 424, L321-L328.	0.8	145
18	Structure ofAg(111)â^'p(4Ã—4)â^'O: No Silver Oxide. Physical Review Letters, 2006, 96, 146102.	2.9	141

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19	One-DimensionalPtO2at Pt Steps: Formation and Reaction with CO. Physical Review Letters, 2005, 95, 256102.	2.9	131
20	Potential Sputtering of CleanSiO2by Slow Highly Charged Ions. Physical Review Letters, 1997, 79, 945-948.	2.9	130
21	Adsorption Sites and Ligand Effect for CO on an Alloy Surface: A Direct View. Physical Review Letters, 2001, 87, 036103.	2.9	129
22	Room Temperature Water Splitting at the Surface of Magnetite. Journal of the American Chemical Society, 2011, 133, 12650-12655.	6.6	127
23	Oxygen-Deficient Line Defects in an Ultrathin Aluminum Oxide Film. Physical Review Letters, 2006, 97, 046101.	2.9	123
24	Nanotemplate with Holes: Ultrathin Alumina onNi3Al(111). Physical Review Letters, 2007, 99, 196104.	2.9	122
25	Potential Sputtering of Lithium Fluoride by Slow Multicharged Ions. Physical Review Letters, 1995, 74, 5280-5283.	2.9	121
26	Quantum Wells and Electron Interference Phenomena in Al due to Subsurface Noble Gas Bubbles. Physical Review Letters, 1996, 76, 2298-2301.	2.9	115
27	Interaction of oxygen with palladium deposited on a thin alumina film. Surface Science, 2002, 501, 270-281.	0.8	111
28	Ordered Array of Single Adatoms with Remarkable Thermal Stability:<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Au</mml:mi><mml:mo>/</mml:mo><mml:msub><mml:mi>Fe</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">O</mml:mi><mml:mn>4</mml:mn></mml:msub><mml:mo stretchy="false">(</mml:mo><mml:mn>001</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 362 Td (stretchy="false">)</mml:mo>	2.9	109
29	Dual role of CO in the stability of subnano Pt clusters at the Fe ₃ O ₄ (001) surface. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8921-8926.	3.3	108
30	Surface oxides on close-packed surfaces of late transition metals. Journal of Physics Condensed Matter, 2006, 18, R481-R499.	0.7	107
31	STM study of the (111) and (100) surfaces of PdAg. Surface Science, 1998, 417, 292-300.	0.8	104
32	Thin films of Co on Pt(111): Strain relaxation and growth. Physical Review B, 2000, 62, 2843-2851.	1.1	103
33	Charge Trapping at the Step Edges of TiO₂ Anatase (101). Angewandte Chemie - International Edition, 2014, 53, 4714-4716.	7.2	102
34	Surface alloying and superstructures of Pb on Cu(100). Surface Science, 1995, 331-333, 831-837.	0.8	101
35	Structure of a thin oxide film on Rh(100). Physical Review B, 2005, 71, .	1.1	101
36	Anisotropic two-dimensional electron gas at SrTiO ₃ (110). Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3933-3937.	3.3	99

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37	Surface point defects on bulk oxides: atomically-resolved scanning probe microscopy. Chemical Society Reviews, 2017, 46, 1772-1784.	18.7	98
38	The surface oxide: A LEED, DFT and STM study. Surface Science, 2007, 601, 1574-1581.	0.8	96
39	Methanol on Anatase TiO₂ (101): Mechanistic Insights into Photocatalysis. ACS Catalysis, 2017, 7, 7081-7091.	5.5	93
40	Local Structure and Coordination Define Adsorption in a Model Ir₁/Fe₃O₄ Singleâ€Atom Catalyst. Angewandte Chemie - International Edition, 2019, 58, 13961-13968.	7.2	93
41	Understanding the Structural Deactivation of Ruthenium Catalysts on an Atomic Scale under both Oxidizing and Reducing Conditions. Angewandte Chemie - International Edition, 2005, 44, 917-920.	7.2	91
42	Chemically resolved STM on a PtRh(100) surface. Surface Science, 1996, 359, 17-22.	0.8	89
43	Atomic-Scale Structure of the Hematite Î±-Fe₂O₃(11Ì…02) â€œR-Cutâ€•Surface. Journal of Physical Chemistry C, 2018, 122, 1657-1669.	1.5	89
44	Crystallographic Structure of Ultrathin Fe Films on Cu(100). Physical Review Letters, 2001, 87, 086103.	2.9	85
45	Oxygen adsorption on Al(111): low transient mobility. Surface Science, 2001, 478, L355-L362.	0.8	85
46	Polarity compensation mechanisms on the perovskite surface KTaO ₃ (001). Science, 2018, 359, 572-575.	6.0	85
47	Coexistence of trapped and free excess electrons in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>SrTiO</mml:mi><mml:mn>3</mml:mn></mml:msub><m Physical Review B, 2015, 91, .	1.1	83
48	Electron transfer between anatase TiO ₂ and an O ₂ molecule directly observed by atomic force microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E2556-E2562.	3.3	80
49	Water agglomerates on Fe ₃ O ₄ (001). Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E5642-E5650.	3.3	79
50	Nickel Carbide as a Source of Grain Rotation in Epitaxial Graphene. ACS Nano, 2012, 6, 3564-3572.	7.3	77
51	Adsorption and incorporation of transition metals at the magnetite<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Fe</mml:mi><mml:mn>3</mml:mn></mml:mrow><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>(001) surface. Physical Review B, 2015, 92, .	1.1	76
52	Using photoelectron spectroscopy to observe oxygen spillover to zirconia. Physical Chemistry Chemical Physics, 2019, 21, 17613-17620.	1.3	76
53	Interplay between Adsorbates and Polarons: CO on Rutile <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>TiO</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:mo stretchy="false">(</mml:mo><mml:mn>110</mml:mn><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 87 Td (stretchy="false"	2.9	76
54	High Transient Mobility of Chlorine onTiO2(110): Evidence for ``Cannon-Ball'' Trajectories of Hot Adsorbates. Physical Review Letters, 1998, 81, 405-408.	2.9	75

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55	Nucleation of bcc Iron in Ultrathin fcc Films. Physical Review Letters, 2001, 86, 464-467.	2.9	74
56	Following the Reduction of Oxygen on TiO₂ Anatase (101) Step by Step. Journal of the American Chemical Society, 2016, 138, 9565-9571.	6.6	74
57	Scanning Tunneling Spectroscopy of One-Dimensional Surface States on a Metal Surface. Physical Review Letters, 1996, 76, 4179-4182.	2.9	72
58	Observation and Destruction of an Elusive Adsorbate with STM:<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi mathvariant="bold">O</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:msub><mml:mi>TiO</mml:mi><mml:mn stretchy="false">(</mml:mo><mml:mn>110</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 607 Td (stretchy="false">)</mml:mo>	2.9	72
59	Oxygen-induced step bunching and faceting of Rh(553): Experiment andab initiocalculations. Physical Review B, 2006, 74, .	1.1	71
60	Structure and catalytic reactivity of Rh oxides. Catalysis Today, 2009, 145, 227-235.	2.2	71
61	Pt25Rh75(111), (110), and (100) studied by scanning tunnelling microscopy with chemical contrast. Surface Science, 1999, 441, 441-453.	0.8	70
62	Bulk Terminated NaCl(111) on Aluminum: A Polar Surface of an Ionic Crystal?. Physical Review Letters, 2000, 85, 5376-5379.	2.9	70
63	Kinetically Assisted Potential Sputtering of Insulators by Highly Charged Ions. Physical Review Letters, 2001, 86, 3530-3533.	2.9	70
64	Oxidation of Pd(553): From ultrahigh vacuum to atmospheric pressure. Physical Review B, 2007, 76, .	1.1	70
65	Probing the surface phase diagram of Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>4</mml:mn></mml:msub></mml:math>(001) towards the Fe-rich limit: Evidence for progressive reduction of the surface. Physical Review B, 2013, 87, .	1.1	70
66	An Atomicâ€Scale View of CO and H₂ Oxidation on a Pt/Fe₃O₄ Model Catalyst. Angewandte Chemie - International Edition, 2015, 54, 13999-14002.	7.2	70
67	Surface stress, surface elasticity, and the size effect in surface segregation. Physical Review B, 1995, 51, 10937-10946.	1.1	69
68	Surface oxides on Pd(111): STM and density functional calculations. Physical Review B, 2007, 76, .	1.1	69
69	Molecular Ordering at the Interface Between Liquid Water and Rutile TiO₂(110). Advanced Materials Interfaces, 2015, 2, 1500246.	1.9	68
70	Experimental and simulated STM images of stoichiometric and partially reduced RuO2() surfaces including adsorbates. Surface Science, 2002, 515, 143-156.	0.8	67
71	Visualization of Atomic Processes on Ruthenium Dioxide using Scanning Tunneling Microscopy. ChemPhysChem, 2004, 5, 167-174.	1.0	67
72	Formation and dynamics of small polarons on the rutile <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>TiO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> (110) surface. Physical Review B, 2018, 98, .	1.1	67

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73	Disorder and Defect Healing in Graphene on Ni(111). Journal of Physical Chemistry Letters, 2012, 3, 136-139.	2.1	65
74	Lattice mismatch dislocations in a preferentially sputtered alloy studied by scanning tunneling microscopy. Physical Review Letters, 1992, 69, 925-928.	2.9	63
75	A highly sensitive quartz-crystal microbalance for sputtering investigations in slow ionâ€“surface collisions. Review of Scientific Instruments, 1999, 70, 3696-3700.	0.6	63
76	Adsorption of water at the SrO surface ofÂruthenates. Nature Materials, 2016, 15, 450-455.	13.3	63
77	The surface oxide as a source of oxygen on Rh(1â€‰1â€‰1). Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 367-372.	0.8	62
78	Bulk and surface characterization of In<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>(001) single crystals. Physical Review B, 2012, 85, .	1.1	62
79	Temperature-dependent segregation on Pt25Rh75(111) and (100). Surface Science, 1999, 419, 236-248.	0.8	59
80	Direct Imaging of Catalytically Important Processes in the Oxidation of CO over RuO2(110). Journal of the American Chemical Society, 2001, 123, 11807-11808.	6.6	59
81	A Multitechnique Study of CO Adsorption on the TiO₂ Anatase (101) Surface. Journal of Physical Chemistry C, 2015, 119, 21044-21052.	1.5	59
82	Growth and decay of the Pd(111)â€“Pd5O4 surface oxide: Pressure-dependent kinetics and structural aspects. Surface Science, 2006, 600, 205-218.	0.8	57
83	Pt(100) quasihexagonal reconstruction: A comparison between scanning tunneling microscopy data and effective medium theory simulation calculations. Physical Review B, 1997, 56, 10518-10525.	1.1	56
84	Influence of surface atomic structure demonstrated on oxygen incorporation mechanism at a model perovskite oxide. Nature Communications, 2018, 9, 3710.	5.8	54
85	Scanning tunneling microscopy of binary-alloy surfaces: is chemical contrast a consequence of alloying?. Surface Science, 1998, 405, L514-L519.	0.8	53
86	Chemical discrimination on atomic level by STM. Applied Surface Science, 1999, 141, 287-293.	3.1	53
87	Segregation and chemical ordering in the surface layers of Pt25Co75(111): a LEED/STM study. Surface Science, 2000, 466, 155-166.	0.8	53
88	Sputter yields of insulators bombarded with hyperthermal multiply charged ions. Physica Scripta, 1997, T73, 307-310.	1.2	51
89	Cluster Nucleation and Growth from a Highly Supersaturated Adatom Phase: Silver on Magnetite. ACS Nano, 2014, 8, 7531-7537.	7.3	51
90	Growth of ultrathin cobalt oxide films on Pt(111). Physical Review B, 2011, 84, .	1.1	50

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91	Threshold for Potential Sputtering of LiF. Physical Review Letters, 1999, 83, 3948-3951.	2.9	49
92	Pd, Co and Coâ€“Pd clusters on the ordered alumina film on NiAl(110): Contact angle, surface structure and composition. Surface Science, 2007, 601, 3233-3245.	0.8	49
93	Step-Orientation-Dependent Oxidation: From 1D to 2D Oxides. Physical Review Letters, 2008, 101, 266104.	2.9	49
94	A multi-technique study of CO2 adsorption on Fe3O4 magnetite. Journal of Chemical Physics, 2017, 146, 014701.	1.2	49
95	Identification of adsorbed molecules via STM tip manipulation: CO, H₂O, and O₂ on TiO₂ anatase (101). Physical Chemistry Chemical Physics, 2014, 16, 21524-21530.	1.3	48
96	Surface preparation of TiO2 anatase (101): Pitfalls and how to avoid them. Surface Science, 2014, 626, 61-67.	0.8	47
97	Aggregation and electronically induced migration of oxygen vacancies in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">TiO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>anatase. Physical Review B, 2015, 91, .	1.1	47
98	Direct Observation of a New Growth Mode: Subsurface Island Growth of Cu on Pb(111). Physical Review Letters, 1995, 75, 2976-2979.	2.9	46
99	Chemical ordering and reconstruction of Pt25Co75(100): an LEED/STM study. Surface Science, 1998, 396, 137-155.	0.8	46
100	High-Coverage Oxygen Structures on Rh(111): Adsorbate Repulsion and Site Preference Is Not Enough. Physical Review Letters, 2004, 93, 266103.	2.9	46
101	Growth of an Ultrathin Zirconia Film on Pt₃Zr Examined by High-Resolution X-ray Photoelectron Spectroscopy, Temperature-Programmed Desorption, Scanning Tunneling Microscopy, and Density Functional Theory. Journal of Physical Chemistry C, 2015, 119, 2462-2470.	1.5	46
102	Surface and subsurface alloy formation of vanadium on Pd(111). Surface Science, 2000, 463, 199-210.	0.8	45
103	Magnetism of FePt Surface Alloys. Physical Review Letters, 2009, 102, 067207.	2.9	45
104	Analysis of vibration-isolating systems for scanning tunneling microscopes. Ultramicroscopy, 1992, 42-44, 1610-1615.	0.8	44
105	Local Structure and Coordination Define Adsorption in a Model Ir₁/Fe₃O₄ Singleâ€Atom Catalyst. Angewandte Chemie, 2019, 131, 14099-14106.	1.6	44
106	Direct assessment of the acidity of individual surface hydroxyls. Nature, 2021, 592, 722-725.	13.7	43
107	A metastable Fe(A) termination at the Fe3O4(001) surface. Surface Science, 2011, 605, L42-L45.	0.8	42
108	Adsorption of Formic Acid on the Fe₃O₄(001) Surface. Journal of Physical Chemistry C, 2015, 119, 20459-20465.	1.5	42

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109	Pt<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>Zr(0001): A substrate for growing well-ordered ultrathin zirconia films by oxidation. Physical Review B, 2012, 86, .	1.1	41
110	Layered piezoelectric resonators with an arbitrary number of electrodes (general oneâ€dimensional) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.5	40
111	Coexistence of fcc- and bcc-like crystal structures in ultrathin Fe films grown onCu(111). Physical Review B, 2006, 73, .	1.1	40
112	The structure of the oxygen induced (1Ã—5) reconstruction of V(100). Surface Science, 2001, 480, 11-24.	0.8	39
113	Local atomic structure of ultra-thin Fe films grown on Cu(100). Applied Physics A: Materials Science and Processing, 2004, 78, 807-816.	1.1	39
114	Resolving the adsorption of molecular O ₂ on the rutile TiO ₂ (110) surface by noncontact atomic force microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14827-14837.	3.3	39
115	Why and How Savitzkyâ€“Golay Filters Should Be Replaced. ACS Measurement Science Au, 2022, 2, 185-196.	1.9	39
116	Highly ordered Pd, Fe, and Co clusters on alumina on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Ni</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:msub> Physical Review B, 2010, 81, .	1.1	38
117	The growth of ultra-thin zirconia films on Pd₃Zr(0â€‰0â€‰0â€‰1). Journal of Physics Condensed Matter, 2014, 26, 225003.	0.7	38
118	Motional capacitance of layered piezoelectric thickness-mode resonators. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1991, 38, 199-206.	1.7	37
119	Segregation of impurities on Cr(100) studied by AES and STM. Surface Science, 1997, 377-379, 1023-1027.	0.8	37
120	Antiphase domain boundaries at the Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>4</mml:mn></mml:msub></mml:math>(001) surface. Physical Review B, 2012, 85, .	1.1	37
121	Resolving the Structure of a Well-Ordered Hydroxyl Overlayer on In₂O₃(111): Nanomanipulation and Theory. ACS Nano, 2017, 11, 11531-11541.	7.3	37
122	Surface Structure of TiO₂ Rutile (011) Exposed to Liquid Water. Journal of Physical Chemistry C, 2017, 121, 26424-26431.	1.5	37
123	A computer-controlled system for the measurement of complete admittance spectra of piezoelectric resonators. Measurement Science and Technology, 1990, 1, 970-975.	1.4	36
124	Segregation and reconstructions of PtxNi1 â^' x(100). Surface Science, 1997, 388, 150-161.	0.8	36
125	Stoichiometry-driven switching between surface reconstructions on SrTiO3(001). Surface Science, 2014, 621, L1-L4.	0.8	36
126	An atomic-scale study of the Co induced dendrite formation on Pt(111). Surface Science, 1999, 423, 357-363.	0.8	35

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127	Sputtering of Au and Al2O3 surfaces by slow highly charged ions. Nuclear Instruments & Methods in Physics Research B, 2001, 182, 143-147.	0.6	35
128	Unusual Process of Water Formation on RuO2(110) by Hydrogen Exposure at Room Temperature. Journal of Physical Chemistry B, 2006, 110, 14007-14010.	1.2	35
129	Ultrathin alumina film on Cuâ€“9at%Al(111). Surface Science, 2008, 602, 1750-1756.	0.8	35
130	Vanadium surface oxides on Pd(111):â€‚â€‚A structural analysis. Physical Review B, 2003, 68, .	1.1	34
131	Interlayer Diffusion of Adatoms: A Scanning-Tunneling Microscopy Study. Physical Review Letters, 1999, 82, 5068-5071.	2.9	33
132	Oxygen-Induced Vacancy Formation on a Metal Surface. Physical Review Letters, 1999, 82, 355-358.	2.9	33
133	The Role of Surface Defects in the Adsorption of Methanol on Fe3O4(001). Topics in Catalysis, 2017, 60, 420-430.	1.3	33
134	Secondary ion emission from lithium fluoride under impact of slow multicharged ions. Nuclear Instruments & Methods in Physics Research B, 1995, 98, 465-468.	0.6	32
135	Water Adsorption at the Tetrahedral Titania Surface Layer of SrTiO₃(110)-(4 Ã— 1). Journal of Physical Chemistry C, 2013, 117, 26060-26069.	1.5	32
136	Formaldehyde Adsorption on the Anatase TiO₂(101) Surface: Experimental and Theoretical Investigation. Journal of Physical Chemistry C, 2017, 121, 8914-8922.	1.5	32
137	Polaron-Driven Surface Reconstructions. Physical Review X, 2017, 7, .	2.8	32
138	Partially Dissociated Water Dimers at the Waterâ€“Hematite Interface. ACS Energy Letters, 2019, 4, 390-396.	8.8	32
139	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>IrO</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></ Surface Complexions Identified through Machine Learning and Surface Investigations. Physical Review Letters, 2020, 125, 206101.	2.9	32
140	Mismatch dislocations caused by preferential sputtering of a platinum-nickel alloy surface. Applied Physics A: Solids and Surfaces, 1992, 55, 468-475.	1.4	31
141	Atomic structure of anAlâ€“Coâ€“Nidecagonal quasicrystalline surface. Physical Review B, 2004, 70, .	1.1	31
142	Stressing Pd atoms: Initial oxidation of the Pd(110) surface. Surface Science, 2008, 602, 2440-2447.	0.8	31
143	Segregated carbon on Pt10Ni90(100) studied by scanning tunneling microscopy. Surface Science, 1993, 294, L952-L958.	0.8	30
144	Two-dimensional alloy of immiscible metals: Single and binary monolayer films of Pb and Sn on Rh(111). Physical Review B, 2003, 67, .	1.1	30

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145	Stability and Catalytic Performance of Reconstructed Fe₃O₄(001) and Fe₃O₄(110) Surfaces during Oxygen Evolution Reaction. Journal of Physical Chemistry C, 2019, 123, 8304-8311.	1.5	30
146	Preferential sputtering of Pt-Ni alloy single crystals studied by scanning tunneling microscopy. Nuclear Instruments & Methods in Physics Research B, 1993, 82, 259-268.	0.6	29
147	Embedded-atom method calculations applied to surface segregation of Ptî—¸Ni single crystals. Surface Science, 1993, 287-288, 366-370.	0.8	29
148	Unreconstructed Au(100) monolayers on a Au3Pd(100) single-crystal surface. Surface Science, 1998, 415, L1051-L1054.	0.8	29
149	Combined STM, LEED and DFT study of Ag(100) exposed to oxygen near atmospheric pressures. Surface Science, 2006, 600, 617-624.	0.8	29
150	The shifted-row reconstruction of PtxNi1âˆ'x(100). Surface Science, 1994, 318, 289-298.	0.8	28
151	p(nÃ—1) superstructures of Pb on Cu(110). Physical Review B, 1995, 52, 16796-16802.	1.1	28
152	The Role of Defects in the Local Reaction Kinetics of CO Oxidation on Low-Index Pd Surfaces. Journal of Physical Chemistry C, 2013, 117, 12054-12060.	1.5	28
153	Adsorbate migration on PdAg(111). Surface Science, 1999, 423, L229-L235.	0.8	27
154	Influence of Impurities on Localized Transition Metal Surface States: Scanning Tunneling Spectroscopy on V(001). Physical Review Letters, 2001, 86, 2396-2399.	2.9	27
155	Kinetics of the Reduction of the Rh(111) Surface Oxide:Â Linking Spectroscopy and Atomic-Scale Information. Journal of Physical Chemistry B, 2006, 110, 9966-9975.	1.2	27
156	Segregation and ordering at Fe1âˆ'xAlx(100) surfaces â€“ a model case for binary alloys. Surface Science, 2001, 474, 81-97.	0.8	26
157	Reconstruction of the clean and H covered â€œmagnetic live surface layerâ€•of Fe films grown on Cu(100). Surface Science, 2004, 563, 110-126.	0.8	26
158	Reducing the In₂O₃(111) Surface Results in Ordered Indium Adatoms. Advanced Materials Interfaces, 2014, 1, 1400289.	1.9	26
159	Total sputter yield of LiF induced by hyperthermal ions measured by a quartz microbalance. Nuclear Instruments & Methods in Physics Research B, 1994, 90, 496-500.	0.6	25
160	Inverse corrugation and corrugation enhancement of Pb superstructures on Cu(111) and (110). Surface Science, 1996, 369, 159-168.	0.8	25
161	Fabrication of a Well-Ordered Nanohole Array Stable at Room Temperature. Nano Letters, 2008, 8, 2035-2040.	4.5	25
162	Interplay between Steps and Oxygen Vacancies on Curved TiO₂(110). Nano Letters, 2016, 16, 2017-2022.	4.5	25

#	Article	IF	Citations
163	Adsorbate-induced structural evolution changes the mechanism of CO oxidation on a Rh/Fe₃O₄(001) model catalyst. Nanoscale, 2020, 12, 5866-5875.	2.8	25
164	Water adsorption at zirconia: from the ZrO₂(111)/Pt₃Zr(0001) model system to powder samples. Journal of Materials Chemistry A, 2018, 6, 17587-17601.	5.2	24
165	An STM study of the step structure of Pb(110) and Pb(111). Surface Science, 1995, 331-333, 1056-1061.	0.8	23
166	Geometry of the Valence Transition Induced Surface Reconstruction of Sm(0001). Physical Review Letters, 2002, 88, 136102.	2.9	23
167	Complex surface reconstructions solved by ab initio molecular dynamics. Applied Physics A: Materials Science and Processing, 2003, 76, 701-710.	1.1	23
168	Adjusting island density and morphology of the SrTiO3(110)-(4 Ã— 1) surface: Pulsed laser deposition combined with scanning tunneling microscopy. Surface Science, 2016, 651, 76-83.	0.8	23
169	STM and STS of bulk electron scattering by subsurface objects. Journal of Electron Spectroscopy and Related Phenomena, 2000, 109, 71-84.	0.8	22
170	Research Update: Focused ion beam direct writing of magnetic patterns with controlled structural and magnetic properties. APL Materials, 2018, 6, .	2.2	22
171	Temperature-dependent segregation and (1Ã—2) missing-row reconstruction of Pt 25 Rh 75 (110). Surface Science, 1999, 423, 134-143.	0.8	21
172	Segregation and surface chemical ordering â^' an experimental view on the atomic scale. Chemical Physics of Solid Surfaces, 2002, 10, 118-151.	0.3	21
173	When Scanning Tunneling Microscopy Gets the Wrong Adsorption Site: H on Rh(100). Physical Review Letters, 2003, 90, 176101.	2.9	21
174	Growth of Ce on Rh(111). Surface Science, 2004, 556, 1-10.	0.8	21
175	Real-space imaging of the Verwey transition at the (100) surface of magnetite. Physical Review B, 2013, 88, .	1.1	21
176	Probing the geometry of copper and silver adatoms on magnetite: quantitative experiment versus theory. Nanoscale, 2018, 10, 2226-2230.	2.8	21
177	Incipient ferroelectricity: A route towards bulk-terminated <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>SrTiO</mml:mi><mml:mn>3</mml:mn></mml:msub><m Physical Review Materials, 2019, 3, .	2.9	21
178	Anti-corrugation and nitrogen c(2 Ã— 2) on Cr(100): STM on atomic scale and quantitative LEED. Surface Science, 1998, 396, 78-86.	0.8	20
179	A quantitative LEED analysis of the oxygen-induced p(3Ã—1) reconstruction of Pt25Rh75(100). Surface Science, 1998, 416, 384-395.	0.8	20
180	Ultrathin Films of Co on Pt(111): an STM View. Physica Status Solidi A, 2001, 187, 97-112.	1.7	20

#	Article	IF	Citations
181	Adsorption of CO on the Fe₃O₄(001) Surface. Journal of Physical Chemistry B, 2018, 122, 721-729.	1.2	20
182	Reduced thickness of contamination layers determined from C 1s- and CKVV-lines. Journal of Electron Spectroscopy and Related Phenomena, 1984, 34, 313-316.	0.8	19
183	Vibration modes of massâ€loaded planoconvex quartz crystal resonators. Journal of the Acoustical Society of America, 1991, 90, 700-706.	0.5	19
184	High Island Densities in Pulsed Laser Deposition: Causes and Implications. Physical Review Letters, 2009, 103, 076101.	2.9	19
185	Propagation of spin waves through a NÃ©el domain wall. Applied Physics Letters, 2020, 117, .	1.5	19
186	Scanning tunneling microscopy studies of niobium carbide (100) and (110) surfaces. Surface Science, 1996, 366, 85-92.	0.8	18
187	Interaction of oxygen with PtRh(100) studied with STM. Surface Science, 1997, 388, 63-70.	0.8	18
188	High Chemical Activity of a Perovskite Surface: Reaction of CO with<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Sr</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>7</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Review Letters, 2014, 113, 116101.	2.9	18
189	Metal Adatoms and Clusters on Ultrathin Zirconia Films. Journal of Physical Chemistry C, 2016, 120, 9920-9932.	1.5	18
190	Self-Limiting Adsorption of WO₃ Oligomers on Oxide Substrates in Solution. Journal of Physical Chemistry C, 2017, 121, 19743-19750.	1.5	18
191	The accuracy of quantitative LEED in determining chemical composition profiles of substitutionally disordered alloys: a case study. Surface Science, 1998, 416, 423-429.	0.8	17
192	Understanding the Structural Deactivation of Ruthenium Catalysts on an Atomic Scale under both Oxidizing and Reducing Conditions. Angewandte Chemie, 2005, 117, 939-942.	1.6	17
193	Ion-beam induced fcc-bcc transition in ultrathin Fe films for ferromagnetic patterning. Applied Physics Letters, 2008, 93, 063102.	1.5	17
194	A quartz-crystal-microbalance technique to investigate ion-induced erosion of fusion relevant surfaces. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 695-699.	0.6	17
195	A full monolayer of superoxide: oxygen activation on the unmodified Ca₃Ru₂O₇(001) surface. Journal of Materials Chemistry A, 2018, 6, 5703-5713.	5.2	17
196	Apparatus for dosing liquid water in ultrahigh vacuum. Review of Scientific Instruments, 2018, 89, 083906.	0.6	17
197	Strain-induced local surface chemical ordering observed by STM. Physical Review B, 1996, 53, 16019-16026.	1.1	16
198	Ni-modified Fe3O4(001) surface as a simple model system for understanding the oxygen evolution reaction. Electrochimica Acta, 2021, 389, 138638.	2.6	16

#	Article	IF	Citations
199	Investigation of Quartz Crystal Thickness Shear and Twist Modes Using a New Noninterferometric Laser Speckle Measurement Method. , 1985, , .		15
200	Enhancement of STM images and estimation of atomic positions based on maximum entropy deconvolution. Surface Science, 1994, 313, 6-16.	0.8	15
201	A misfit structure in the Co/Pt() system studied by scanning tunnelling microscopy and embedded atom method calculations. Surface Science, 2002, 498, 257-265.	0.8	15
202	Self-limited growth of an oxyhydroxide phase at the Fe3O4(001) surface in liquid and ambient pressure water. Journal of Chemical Physics, 2019, 151, 154702.	1.2	15
203	Zero-field propagation of spin waves in waveguides prepared by focused ion beam direct writing. Physical Review B, 2020, 101, .	1.1	15
204	Structure of an Ultrathin Oxide on Pt₃Sn(111) Solved by Machine Learning Enhanced Global Optimization**. Angewandte Chemie - International Edition, 2022, 61, .	7.2	15
205	Progress in monitoring thin film thickness by use of quartz crystals. Thin Solid Films, 1989, 174, 307-314.	0.8	14
206	Subsurface islands and superstructures of Cu on Pb(111). Surface Science, 1996, 352-354, 540-545.	0.8	14
207	The structure of the oxygen-induced c(6Ã—2) reconstruction of V(110). Surface Science, 2002, 512, 16-28.	0.8	14
208	Scanning tunneling spectroscopy on clean and contaminated V(). Surface Science, 2002, 513, 9-25.	0.8	14
209	Vacancy clusters at domain boundaries and band bending at the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi mathvariant="normal">SrTiO</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub><mml:mo>(</mml:mo><mml:mn>110</mml:mn></m Physical Review B, 2014, 90, .	1.1	14
210	Stabilizing Single Ni Adatoms on a Two-Dimensional Porous Titania Overlayer at the SrTiO3(110) Surface. Journal of Physical Chemistry C, 2014, 118, 19904-19909.	1.5	14
211	Surface structures of ZrO2 films on Rh(111): From two layers to bulk termination. Surface Science, 2019, 679, 180-187.	0.8	14
212	Carbide-Modified Pd on ZrO2 as Active Phase for CO2-Reforming of Methaneâ€"A Model Phase Boundary Approach. Catalysts, 2020, 10, 1000.	1.6	14
213	Quest for a pristine unreconstructed <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>SrTiO</mml:mi><mml:mn>3</mml:mn></ surface: An atomically resolved study via noncontact atomic force microscopy. Physical Review B, 2021, 103, .	1.1	14
214	CO oxidation by Pt ₂ /Fe ₃ O ₄ : Metastable dimer and support configurations facilitate lattice oxygen extraction. Science Advances, 2022, 8, eabn4580.	4.7	14
215	Trajectory-dependent neutralization of 1keV He+ ions scattered from Pb(111) and Pb films on Cu(100). Surface Science, 1998, 412-413, 202-212.	0.8	13
216	Temperature-dependent segregation reversal and (1Ã—3) missing-row structure of Pt90Co10(110). Surface Science, 2000, 453, 214-224.	0.8	13

#	Article	IF	Citations
217	Adatom interlayer diffusion on Pt(111): an embedded atom method study. Surface Science, 2001, 490, 29-42.	0.8	13
218	STM Studies of HCl-induced Surface Damage on Highly Oriented Pyrolytic Graphite. Physica Scripta, 2001, T92, 156-157.	1.2	13
219	In-situ magnetic nano-patterning of Fe films grown on Cu(100). Journal of Applied Physics, 2011, 110, .	1.1	13
220	Nickel-Oxide-Modified SrTiO₃(110)-(4 Ã— 1) Surfaces and Their Interaction with Water. Journal of Physical Chemistry C, 2015, 119, 20481-20487.	1.5	13
221	Substoichiometric ultrathin zirconia films cause strong metalâ€“support interaction. Journal of Materials Chemistry A, 2019, 7, 24837-24846.	5.2	13
222	Pushing the detection of cation nonstoichiometry to the limit. Physical Review Materials, 2019, 3, .	0.9	13
223	Single Rh Adatoms Stabilized on Î±-Fe₂O₃(11Ì…02) by Coadsorbed Water. ACS Energy Letters, 2022, 7, 375-380.	8.8	13
224	SEGREGATION PHENOMENA ON PtxNi1âˆ’x LOW INDEX SINGLE CRYSTAL SURFACES STUDIED BY STM. Surface Review and Letters, 1996, 03, 1831-1845.	0.5	12
225	Point defects at cleaved<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mrow><mml:mi>n</mml:mi> mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>3</mml:mn><mml:mi>n</mml:mi><mml:mo>+</mml:mo><mml:mn>1</mml:mn> surfaces. Physical Review B, 2014, 90, .	1.1	12
226	Ordered hydroxyls on Ca3Ru2O7(001). Nature Communications, 2017, 8, 23.	5.8	12
227	Atomically resolved surface phases of La_{0.8}Sr_{0.2}MnO₃(110) thin films. Journal of Materials Chemistry A, 2020, 8, 22947-22961.	5.2	12
228	A Model System for Photocatalysis: Ti-Doped Î±-Fe₂O₃(11Ì…02) Single-Crystalline Films. Chemistry of Materials, 2020, 32, 3753-3764.	3.2	12
229	Growth of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>In</mml:mi><mml:mn>2</mml:mn></mml:mn> mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> (111) thin films with optimized surfaces. Physical Review Materials, 2019, 3, .	0.9	12
230	Segregated Si onFe96.5Si3.5(110): Domain-wall structures in a two-dimensional alloy. Physical Review B, 1994, 50, 17518-17524.	1.1	11
231	High temperature growth of Pt on the Rh(111) surface. Surface Science, 1999, 433-435, 554-558.	0.8	11
232	Metal-related gate sinking due to interfacial oxygen layer in Ir/InAlN high electron mobility transistors. Applied Physics Letters, 2010, 96, 263515.	1.5	11
233	Fe3O4(110)â€“(1 Ã— 3) revisited: Periodic (111) nanofacets. Surface Science, 2016, 649, L120-L123.	0.8	11
234	Zirconium-Palladium Interactions during Dry Reforming of Methane. ECS Transactions, 2017, 78, 2419-2430.	0.3	11

#	Article	IF	Citations
235	Exchange processes in interlayer diffusion â€“ kinks, corners and the growth mode. Applied Physics A: Materials Science and Processing, 2001, 72, 405-412.	1.1	10
236	Superstructures of carbon on V(). Surface Science, 2002, 497, 294-304.	0.8	10
237	Ion-induced erosion of tungsten surfaces studied by a sensitive quartz-crystal-microbalance technique. Journal of Nuclear Materials, 2009, 390-391, 1102-1105.	1.3	10
238	Interface-confined mixing and buried partial dislocations for Ag bilayer on Pt(111). Physical Review B, 2012, 86, .	1.1	10
239	Ion-beam-induced magnetic and structural phase transformation of Ni-stabilized face-centered-cubic Fe films on Cu(100). Applied Physics Letters, 2013, 103, .	1.5	10
240	Surface effects on Pt-Ni single crystals calculated with the embedded-atom method. Physical Review B, 1993, 48, 11352-11360.	1.1	9
241	Determination of electron-induced total sputter yield of LiF. Nuclear Instruments & Methods in Physics Research B, 1995, 101, 127-130.	0.6	9
242	Competitive segregation of Si and P on Fe96.5Si3.5 (100) and (110). Fresenius' Journal of Analytical Chemistry, 1995, 353, 259-262.	1.5	9
243	Ultra-thin Fe films grown on Cu by pulsed laser deposition: Intermixing and bcc-like structures. Surface Science, 2008, 602, 1589-1598.	0.8	9
244	Well-Ordered In Adatoms at the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>In</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:mo mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub><mml:mo stretchy="false">(</mml:mo><mml:mn>111</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 372 Td (stretchy="false">)</mml:mo>	2.9	9
245	Review Letters, 2016, 117, 206101. A high temperature dual-mode quartz crystal microbalance technique for erosion and thermal desorption spectroscopy measurements. Review of Scientific Instruments, 2020, 91, 125104.	0.6	9
246	Surface Reduction State Determines Stabilization and Incorporation of Rh on Î±â€Fe₂O₃(11Â¯02). Advanced Materials Interfaces, 2021, 8, 2001908.	1.9	9
247	Epitaxial growth of complex oxide films: Role of surface reconstructions. Physical Review Research, 2019, 1, .	1.3	9
248	Growth of ultrathin Fe films on Cu(111) by pulsed laser deposition. Surface Science, 2005, 594, 120-131.	0.8	8
249	Chemical ordering and composition fluctuations at the (001) surface of theFe64Ni36Invar alloy. Physical Review B, 2006, 74, .	1.1	8
250	Prototypical Organicâ€“Oxide Interface: Intramolecular Resolution of Sexiphenyl on In₂O₃(111). ACS Applied Materials & Interfaces, 2018, 10, 14175-14182.	4.0	8
251	Orderâ€“disorder phase transition of the subsurface cation vacancy reconstruction on Fe3O4(001). Physical Chemistry Chemical Physics, 2020, 22, 8336-8343.	1.3	8
252	Rapid oxygen exchange between hematite and water vapor. Nature Communications, 2021, 12, 6488.	5.8	8

#	Article	IF	Citations
253	Sputtering of LiF(100) with low energetic Ne+ and Ne2+ ions. Nuclear Instruments & Methods in Physics Research B, 1992, 65, 167-172.	0.6	7
254	The nitrogen-induced herringbone reconstruction of Cr(110). Surface Science, 1997, 389, L1140-L1146.	0.8	7
255	The role of localized rotational imbalance in drive level dependence phenomena. , 0, , .		7
256	Stabilizing single metal adatoms at room temperature: Pd on C- and O-covered V(). Surface Science, 2002, 496, 209-220.	0.8	7
257	An STM study of growth and alloying of Cr on Ru(0001) and CO adsorption on the alloy. Surface Science, 2005, 578, 124-135.	0.8	7
258	Ion-beam-induced magnetic transformation of CO-stabilized fcc Fe films on Cu(100). Physical Review B, 2010, 82, .	1.1	7
259	Metastable surface oxide on CoGa(100): Structure and stability. Physical Review B, 2010, 81, .	1.1	7
260	Growth and structure of an ultrathin tin oxide film on Rh(111). Journal of Applied Physics, 2011, 109, .	1.1	7
261	Construction and evaluation of an ultrahigh-vacuum-compatible sputter deposition source. Review of Scientific Instruments, 2017, 88, 103904.	0.6	7
262	Atomicâ€Scale Studies of Fe₃O₄(001) and TiO₂(110) Surfaces Following Immersion in CO₂â€Acidified Water. ChemPhysChem, 2020, 21, 1788-1796.	1.0	7
263	Two-dimensional surface phase diagram of a multicomponent perovskite oxide: <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>La</mml:mi><mml:mrow><mml:mn>0.9</mml:mn><mml:mn>0.8</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Physical Review Materials, 2021, 5, .	2.9	7
264	Surface composition of Pt25Ni75(111) investigated by ISS and STM. Fresenius' Journal of Analytical Chemistry, 1993, 346, 281-283.	1.5	6
265	Surface structure and composition of Pt50Rh50(): room temperature analysis of the (1Ã—3) missing-row reconstruction. Surface Science, 2003, 530, 121-135.	0.8	6
266	A LEED study of NO superstructures on the Pd(111) surface. Journal of Physics Condensed Matter, 2009, 21, 134005.	0.7	6
267	Unusual Cluster Shapes and Directional Bonding of an fcc Metal:<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Pt</mml:mi><mml:mo>/</mml:mo><mml:mi>Pt</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>111</mml:mn><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 167 Td (stretchy="false	2.9	6
268	Fast low-noise transimpedance amplifier for scanning tunneling microscopy and beyond. Review of Scientific Instruments, 2020, 91, 074701.	0.6	6
269	Chemical analysis of PtxNi1?x alloy single crystal surfaces by scanning tunnelling microscopy. Fresenius' Journal of Analytical Chemistry, 1994, 349, 201-203.	1.5	5
270	Domain wall structures in an ordered Si/Fe(110) surface alloy. Surface Science, 1995, 331-333, 787-793.	0.8	5

#	Article	IF	Citations
271	Time-of-flight spectroscopy of the energy distribution of laser-ablated atoms and ions. Review of Scientific Instruments, 2008, 79, 043301.	0.6	5
272	Oxygen-Stabilized Rh Adatoms: 0D Oxides on a Vicinal Surface. Journal of Physical Chemistry Letters, 2011, 2, 2747-2751.	2.1	5
273	The Rh(100)-(3 Ã— 1)-2O structure. Journal of Physics Condensed Matter, 2012, 24, 225006.	0.7	5
274	Composition and local atomic arrangement of decagonal Al-Co-Cu quasicrystal surfaces. Physical Review B, 2012, 86, .	1.1	5
275	Few-monolayer yttria-doped zirconia films: Segregation and phase stabilization. Journal of Chemical Physics, 2020, 152, 064709.	1.2	5
276	Surface structure of the missing-row reconstruction of VC0.8(110): a scanning tunneling microscopy analysis. Surface Science, 2003, 547, 394-402.	0.8	4
277	Slowing down adatom diffusion by an adsorbate: Co on Pt(111) with and without preadsorbed CO. Physical Review B, 2003, 68, .	1.1	4
278	Movable holder for a quartz crystal microbalance for exact growth rates in pulsed laser deposition. Review of Scientific Instruments, 2020, 91, 065003.	0.6	4
279	Deconvolution of STM images using entropy as a regularization functional. Fresenius' Journal of Analytical Chemistry, 1995, 353, 439-442.	1.5	3
280	Structure of the cobalt-filled missing-row reconstruction of Pt(110). Physical Review B, 2004, 70, .	1.1	3
281	Sexiphenyl on Cu(100): nc-AFM tip functionalization and identification. Surface Science, 2018, 678, 124-127.	0.8	3
282	The growth of metastable fcc Fe78Ni22 thin films on H-Si(1â€¯0â€¯0) substrates suitable for focused ion beam direct magnetic patterning. Applied Surface Science, 2019, 469, 747-752.	3.1	3
283	Oxygen-rich tetrahedral surface phase on high-temperature rutile <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">V</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:mn>1</mml:mn><mml:mi mathvariant="normal">T</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math> single crystals. Physical Review Materials, 2021, 5, .	0.9	3
284	Adsorption configurations of Co-phthalocyanine on In2O3(111). Surface Science, 2022, 722, 122065.	0.8	3
285	Structure of an Ultrathin Oxide on Pt₃Sn(111) Solved by Machine Learning Enhanced Global Optimization**. Angewandte Chemie, 2022, 134, .	1.6	3
286	Observation of a threshold in potential sputtering of LiF surfaces. Nuclear Instruments & Methods in Physics Research B, 2000, 164-165, 517-521.	0.6	2
287	Physical-chemical stability of fluorinated III-N surfaces: Towards the understanding of the (0001) AlxGa1-xN surface donor modification by fluorination. Journal of Applied Physics, 2017, 121, 225704.	1.1	2
288	Adsorption of CO on the Ca3Ru2O7(001)Âsurface. Surface Science, 2019, 680, 18-23.	0.8	2

#	Article	IF	Citations
289	Desorption from LiF(100) by Singly- and Doubly-Charged Hyperthermal He Ions. Springer Series in Surface Sciences, 1993, , 129-132.	0.3	2
290	Reconstruction changes drive surface diffusion and determine the flatness of oxide surfaces. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, .	0.9	2
291	Segregated carbon on Pt10Ni90(100) studied by scanning tunneling microscopy. Surface Science Letters, 1993, 294, L952-L958.	0.1	1
292	Competitive segregation of Si and P on Fe 96.5 Si 3.5 (100) and (110). Analytical and Bioanalytical Chemistry, 1995, 353, 259-262.	1.9	1
293	Deconvolution of STM images using entropy as a regularization functional. Analytical and Bioanalytical Chemistry, 1995, 353, 439-442.	1.9	1
294	ON THE ROLE OF KINKS AND STRAIN IN HETEROEPITAXIAL GROWTH: AN STM STUDY. Surface Review and Letters, 2000, 07, 673-677.	0.5	0
295	Single Atom Catalysts: Surface Reduction State Determines Stabilization and Incorporation of Rh on Î±â€Fe₂O₃(11Â¯02) (Adv. Mater. Interfaces 8/2021). Advanced Materials Interfaces, 2021, 8, 2170045.	1.9	0
296	Ionization of LiF by Hyperthermal Multiply Charged Ions. NATO ASI Series Series B: Physics, 1993, , 447-453.	0.2	0
297	Defect chemistry of Eu dopants in NaI scintillators studied by atomically resolved force microscopy. Physical Review Materials, 2019, 3, .	0.9	0