

Michael Schmid

List of Publications by Year in descending order

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papers

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13827

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all docs

301
docs citations

301
times ranked

11477
citing authors

#	ARTICLE	IF	CITATIONS
1	Why and How Savitzky-Golay Filters Should Be Replaced. ACS Measurement Science Au, 2022, 2, 185-196.	1.9	39
2	Adsorption configurations of Co-phthalocyanine on In2O3(111). Surface Science, 2022, 722, 122065.	0.8	3
3	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
4	Structure of an Ultrathin Oxide on Pt ₃ Sn(111) Solved by Machine Learning Enhanced Global Optimization**. Angewandte Chemie, 2022, 134, .	1.6	3
5	Structure of an Ultrathin Oxide on Pt ₃ Sn(111) Solved by Machine Learning Enhanced Global Optimization**. Angewandte Chemie - International Edition, 2022, 61, .	7.2	15
6	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
7	Single Rh Adatoms Stabilized on $\sqrt{3}\times\sqrt{3}$ Fe ₂ O ₃ (11 $\bar{1}$...02) by Coadsorbed Water. ACS Energy Letters, 2022, 7, 375-380.	8.8	13
8	Unraveling CO adsorption on model single-atom catalysts. Science, 2021, 371, 375-379.	6.0	179
9	Surface Reduction State Determines Stabilization and Incorporation of Rh on $\sqrt{3}\times\sqrt{3}$ Fe ₂ O ₃ (11 $\bar{1}$ 02). Advanced Materials Interfaces, 2021, 8, 2001908.	1.9	9
10	Direct assessment of the acidity of individual surface hydroxyls. Nature, 2021, 592, 722-725.	13.7	43
11	Single Atom Catalysts: Surface Reduction State Determines Stabilization and Incorporation of Rh on $\sqrt{3}\times\sqrt{3}$ Fe ₂ O ₃ (11 $\bar{1}$ 02) (Adv. Mater. Interfaces 8/2021). Advanced Materials Interfaces, 2021, 8, 2170045.	1.9	0
12	Quest for a pristine unreconstructed $\sqrt{3}\times\sqrt{3}$ SrTiO ₃ surface: An atomically resolved study via noncontact atomic force microscopy. Physical Review B, 2021, 103, .	1.1	14
13	Two-dimensional surface phase diagram of a multicomponent perovskite oxide: $\sqrt{3}\times\sqrt{3}$ La _{0.9} Ti _{0.8} O ₃ Physical Review Materials, 2021, 5, .	0.9	3
14	Ni-modified Fe3O4(001) surface as a simple model system for understanding the oxygen evolution reaction. Electrochimica Acta, 2021, 389, 138638.	2.6	16
15	Rapid oxygen exchange between hematite and water vapor. Nature Communications, 2021, 12, 6488.	5.8	8
16	Oxygen-rich tetrahedral surface phase on high-temperature rutile $\sqrt{3}\times\sqrt{3}$ Ti ₂ O ₃ single crystals. Physical Review Materials, 2021, 5, .	0.9	3
17	Carbide-Modified Pd on ZrO2 as Active Phase for CO2-Reforming of Methane: A Model Phase Boundary Approach. Catalysts, 2020, 10, 1000.	1.6	14
18	Propagation of spin waves through a Néel domain wall. Applied Physics Letters, 2020, 117, .	1.5	19

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19	IrO_2 Surface Complexions Identified through Machine Learning and Surface Investigations. Physical Review Letters, 2020, 125, 206101.	2.9	32
20	Atomically resolved surface phases of $\text{La}_{0.8}\text{Sr}_{0.2}\text{MnO}_3$ (110) thin films. Journal of Materials Chemistry A, 2020, 8, 22947-22961.	5.2	12
21	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
22	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
23	Zero-field propagation of spin waves in waveguides prepared by focused ion beam direct writing. Physical Review B, 2020, 101, .	1.1	15
24	Order-disorder phase transition of the subsurface cation vacancy reconstruction on Fe_3O_4 (001). Physical Chemistry Chemical Physics, 2020, 22, 8336-8343.	1.3	8
25	Fast low-noise transimpedance amplifier for scanning tunneling microscopy and beyond. Review of Scientific Instruments, 2020, 91, 074701.	0.6	6
26	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
27	Atomic-Scale Studies of Fe_3O_4 (001) and TiO_2 (110) Surfaces Following Immersion in CO_2 -Acidified Water. ChemPhysChem, 2020, 21, 1788-1796.	1.0	7
28	Adsorbate-induced structural evolution changes the mechanism of CO oxidation on a $\text{Rh}/\text{Fe}_3\text{O}_4$ (001) model catalyst. Nanoscale, 2020, 12, 5866-5875.	2.8	25
29	Few-monolayer yttria-doped zirconia films: Segregation and phase stabilization. Journal of Chemical Physics, 2020, 152, 064709.	1.2	5
30	A Model System for Photocatalysis: Ti-Doped Fe_2O_3 (110) Single-Crystalline Films. Chemistry of Materials, 2020, 32, 3753-3764.	3.2	12
31	Using photoelectron spectroscopy to observe oxygen spillover to zirconia. Physical Chemistry Chemical Physics, 2019, 21, 17613-17620.	1.3	76
32	Local Structure and Coordination Define Adsorption in a Model $\text{Ir}_1/\text{Fe}_3\text{O}_4$ Single-Atom Catalyst. Angewandte Chemie - International Edition, 2019, 58, 13961-13968.	7.2	93
33	Local Structure and Coordination Define Adsorption in a Model $\text{Ir}_1/\text{Fe}_3\text{O}_4$ Single-Atom Catalyst. Angewandte Chemie, 2019, 131, 14099-14106.	1.6	44
34	Self-limited growth of an oxyhydroxide phase at the Fe_3O_4 (001) surface in liquid and ambient pressure water. Journal of Chemical Physics, 2019, 151, 154702.	1.2	15
35	Stoichiometric ultrathin zirconia films cause strong metal-support interaction. Journal of Materials Chemistry A, 2019, 7, 24837-24846.	5.2	13
36	Interplay between Adsorbates and Polarons: CO on Rutile TiO_2 (110) Surface. Journal of Physical Chemistry Letters, 2019, 10, 1000-1005.	2.1	16

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37	Partially Dissociated Water Dimers at the Water/Hematite Interface. ACS Energy Letters, 2019, 4, 390-396.	8.8	32
38	Adsorption of CO on the Ca ₃ Ru ₂ O ₇ (001) surface. Surface Science, 2019, 680, 18-23.	0.8	2
39	Stability and Catalytic Performance of Reconstructed Fe ₃ O ₄ (001) and Fe ₃ O ₄ (110) Surfaces during Oxygen Evolution Reaction. Journal of Physical Chemistry C, 2019, 123, 8304-8311.	1.5	30
40	The growth of metastable fcc Fe ₇₈ Ni ₂₂ thin films on H-Si(100) substrates suitable for focused ion beam direct magnetic patterning. Applied Surface Science, 2019, 469, 747-752.	3.1	3
41	Surface structures of ZrO ₂ films on Rh(111): From two layers to bulk termination. Surface Science, 2019, 679, 180-187.	0.8	14
42	Incipient ferroelectricity: A route towards bulk-terminated SrTiO ₃ . Physical Review Materials, 2019, 3, .	0.9	13
43	Pushing the detection of cation nonstoichiometry to the limit. Physical Review Materials, 2019, 3, .	0.9	13
44	Growth of In ₂ O ₃ (111) thin films with optimized surfaces. Physical Review Materials, 2019, 3, .	0.9	12
45	Epitaxial growth of complex oxide films: Role of surface reconstructions. Physical Review Research, 2019, 1, .	1.3	9
46	Defect chemistry of Eu dopants in NaI scintillators studied by atomically resolved force microscopy. Physical Review Materials, 2019, 3, .	0.9	0
47	Sexiphenyl on Cu(100): nc-AFM tip functionalization and identification. Surface Science, 2018, 678, 124-127.	0.8	3
48	Polarity compensation mechanisms on the perovskite surface KTaO ₃ (001). Science, 2018, 359, 572-575.	6.0	85
49	Probing the geometry of copper and silver adatoms on magnetite: quantitative experiment versus theory. Nanoscale, 2018, 10, 2226-2230.	2.8	21
50	Prototypical Organic/Oxide Interface: Intramolecular Resolution of Sexiphenyl on In ₂ O ₃ (111). ACS Applied Materials & Interfaces, 2018, 10, 14175-14182.	4.0	8
51	A full monolayer of superoxide: oxygen activation on the unmodified Ca ₃ Ru ₂ O ₇ (001) surface. Journal of Materials Chemistry A, 2018, 6, 5703-5713.	5.2	17
52	Adsorption of CO on the Fe ₃ O ₄ (001) Surface. Journal of Physical Chemistry B, 2018, 122, 721-729.	1.2	20
53	Atomic-Scale Structure of the Hematite $\sqrt{2} \times \sqrt{2}$ Fe ₂ O ₃ (111) Surface. Journal of Physical Chemistry C, 2018, 122, 1657-1669.	1.5	89
54	Influence of surface atomic structure demonstrated on oxygen incorporation mechanism at a model perovskite oxide. Nature Communications, 2018, 9, 3710.	5.8	54

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55	Apparatus for dosing liquid water in ultrahigh vacuum. Review of Scientific Instruments, 2018, 89, 083906.	0.6	17
56	Water adsorption at zirconia: from the ZrO ₂ (111)/Pt ₃ Zr(0001) model system to powder samples. Journal of Materials Chemistry A, 2018, 6, 17587-17601.	5.2	24
57	Formation and dynamics of small polarons on the rutile TiO_2 (110) surface. Physical Review B, 2018, 98, .		
58	Research Update: Focused ion beam direct writing of magnetic patterns with controlled structural and magnetic properties. APL Materials, 2018, 6, .	2.2	22
59	High-affinity adsorption leads to molecularly ordered interfaces on TiO ₂ in air and solution. Science, 2018, 361, 786-789.	6.0	190
60	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
61	A multi-technique study of CO ₂ adsorption on Fe ₃ O ₄ magnetite. Journal of Chemical Physics, 2017, 146, 014701.	1.2	49
62	Formaldehyde Adsorption on the Anatase TiO ₂ (101) Surface: Experimental and Theoretical Investigation. Journal of Physical Chemistry C, 2017, 121, 8914-8922.	1.5	32
63	Ordered hydroxyls on Ca ₃ Ru ₂ O ₇ (001). Nature Communications, 2017, 8, 23.	5.8	12
64	The Role of Surface Defects in the Adsorption of Methanol on Fe ₃ O ₄ (001). Topics in Catalysis, 2017, 60, 420-430.	1.3	33
65	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
66	Surface point defects on bulk oxides: atomically-resolved scanning probe microscopy. Chemical Society Reviews, 2017, 46, 1772-1784.	18.7	98
67	Polaron-Driven Surface Reconstructions. Physical Review X, 2017, 7, .	2.8	32
68	Resolving the Structure of a Well-Ordered Hydroxyl Overlayer on In ₂ O ₃ (111): Nanomanipulation and Theory. ACS Nano, 2017, 11, 11531-11541.	7.3	37
69	Surface Structure of TiO ₂ Rutile (011) Exposed to Liquid Water. Journal of Physical Chemistry C, 2017, 121, 26424-26431.	1.5	37
70	Methanol on Anatase TiO ₂ (101): Mechanistic Insights into Photocatalysis. ACS Catalysis, 2017, 7, 7081-7091.	5.5	93
71	Zirconium-Palladium Interactions during Dry Reforming of Methane. ECS Transactions, 2017, 78, 2419-2430.	0.3	11
72	Self-Limiting Adsorption of WO ₃ Oligomers on Oxide Substrates in Solution. Journal of Physical Chemistry C, 2017, 121, 19743-19750.	1.5	18

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73	Construction and evaluation of an ultrahigh-vacuum-compatible sputter deposition source. Review of Scientific Instruments, 2017, 88, 103904.	0.6	7
74	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
75	Following the Reduction of Oxygen on TiO ₂ Anatase (101) Step by Step. Journal of the American Chemical Society, 2016, 138, 9565-9571.	6.6	74
76	Fe ₃ O ₄ (110) (1 Å ⁻³) revisited: Periodic (111) nanofacets. Surface Science, 2016, 649, L120-L123.	0.8	11
77	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
78	Well-Ordered In Adatoms at the Fe ₃ O ₄ (001) Surface. Physical Review Letters, 2016, 117, 206101.	0.8	23
79	Adjusting island density and morphology of the SrTiO ₃ (110)-(4 Å ⁻¹) surface: Pulsed laser deposition combined with scanning tunneling microscopy. Surface Science, 2016, 651, 76-83.	0.8	23
80	Metal Adatoms and Clusters on Ultrathin Zirconia Films. Journal of Physical Chemistry C, 2016, 120, 9920-9932.	1.5	18
81	Interplay between Steps and Oxygen Vacancies on Curved TiO ₂ (110). Nano Letters, 2016, 16, 2017-2022.	4.5	25
82	Adsorption of water at the SrO surface of Ru ₂ O ₃ . Nature Materials, 2016, 15, 450-455.	13.3	63
83	Aggregation and electronically induced migration of oxygen vacancies in TiO ₂ anatase. Physical Review B, 2015, 91, .	1.1	47
84	Adsorption and incorporation of transition metals at the magnetite Fe ₃ O ₄ (001) surface. Physical Review B, 2015, 92, .	1.1	76
85	Molecular Ordering at the Interface Between Liquid Water and Rutile TiO ₂ (110). Advanced Materials Interfaces, 2015, 2, 1500246.	1.9	68
86	An Atomic-Scale View of CO and H ₂ Oxidation on a Pt/Fe ₃ O ₄ Model Catalyst. Angewandte Chemie - International Edition, 2015, 54, 13999-14002.	7.2	70
87	Growth of an Ultrathin Zirconia Film on Pt ₃ Zr 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
88	Coexistence of trapped and free excess electrons in SrTiO ₃ . Physical Review B, 2015, 91, .	1.1	83
89	Adsorption of Formic Acid on the Fe ₃ O ₄ (001) Surface. Journal of Physical Chemistry C, 2015, 119, 20459-20465.	1.5	42
90	A Multitechnique Study of CO Adsorption on the TiO ₂ Anatase (101) Surface. Journal of Physical Chemistry C, 2015, 119, 21044-21052.	1.5	59

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91	Nickel-Oxide-Modified SrTiO ₃ (110)-(4 Å ⁻¹) Surfaces and Their Interaction with Water. Journal of Physical Chemistry C, 2015, 119, 20481-20487.	1.5	13
92	Point defects at cleaved SrTiO_3 surfaces. Physical Review B, 2014, 90, .		
93	Subsurface cation vacancy stabilization of the magnetite (001) surface. Science, 2014, 346, 1215-1218.	6.0	222
94	The growth of ultra-thin zirconia films on Pd ₃ Zr(O ₂) ₁ . Journal of Physics Condensed Matter, 2014, 26, 225003.	0.7	38
95	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
96	Identification of adsorbed molecules via STM tip manipulation: CO, H ₂ O, and O ₂ on TiO ₂ anatase (101). Physical Chemistry Chemical Physics, 2014, 16, 21524-21530.	1.3	48
97	Direct View at Excess Electrons in TiO_2 and Anatase. Physical Review Letters, 2014, 113, 086402.	1.3	13
98	Vacancy clusters at domain boundaries and band bending at the SrTiO_3 surface. Physical Review B, 2014, 90, .	1.1	14
99	High Chemical Activity of a Perovskite Surface: Reaction of CO with SrTiO_3 . Physical Review Letters, 2014, 113, 116101.	1.3	13
100	Stabilizing Single Ni Adatoms on a Two-Dimensional Porous Titania Overlayer at the SrTiO ₃ (110) Surface. Journal of Physical Chemistry C, 2014, 118, 19904-19909.	1.5	14
101	Charge Trapping at the Step Edges of TiO ₂ Anatase (101). Angewandte Chemie - International Edition, 2014, 53, 4714-4716.	7.2	102
102	Stoichiometry-driven switching between surface reconstructions on SrTiO ₃ (001). Surface Science, 2014, 621, L1-L4.	0.8	36
103	Cluster Nucleation and Growth from a Highly Supersaturated Adatom Phase: Silver on Magnetite. ACS Nano, 2014, 8, 7531-7537.	7.3	51
104	Surface preparation of TiO ₂ anatase (101): Pitfalls and how to avoid them. Surface Science, 2014, 626, 61-67.	0.8	47
105	Reducing the In ₂ O ₃ (111) Surface Results in Ordered Indium Adatoms. Advanced Materials Interfaces, 2014, 1, 1400289.	1.9	26
106	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
107	Real-space imaging of the Verwey transition at the (100) surface of magnetite. Physical Review B, 2013, 88, .	1.1	21
108	Reaction of O ₂ with Subsurface Oxygen Vacancies on TiO ₂ Anatase (101). Science, 2013, 341, 988-991.	6.0	474

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109	Pinning the surface phase diagram of Fe ₃ O ₄ towards the Fe-rich limit: Evidence for progressive reduction of the surface. <i>Physical Review B</i> , 2013, 87, .	1.1	70
110	Carbon monoxide-induced adatom sintering in a Pd-Fe ₃ O ₄ model catalyst. <i>Nature Materials</i> , 2013, 12, 724-728.	13.3	249
111	Water Adsorption at the Tetrahedral Titania Surface Layer of SrTiO ₃ (110)-(4 Å ⁻¹). <i>Journal of Physical Chemistry C</i> , 2013, 117, 26060-26069.	1.5	32
112	Ion-beam-induced magnetic and structural phase transformation of Ni-stabilized face-centered-cubic Fe films on Cu(100). <i>Applied Physics Letters</i> , 2013, 103, .	1.5	10
113	The Rh(100)-(3 Å ⁻¹)-2O structure. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 225006.	0.7	5
114	Interface-confined mixing and buried partial dislocations for Ag bilayer on Pt(111). <i>Physical Review B</i> , 2012, 86, .	1.1	10
115	Pt ₃ Zr(0001): A substrate for growing well-ordered ultrathin zirconia films by oxidation. <i>Physical Review B</i> , 2012, 86, .	1.1	41
116	Antiphase domain boundaries at the Fe ₃ O ₄ (001) surface. <i>Physical Review B</i> , 2012, 85, .	1.1	37
117	Composition and local atomic arrangement of decagonal Al-Co-Cu quasicrystal surfaces. <i>Physical Review B</i> , 2012, 86, .	1.1	5
118	Nickel Carbide as a Source of Grain Rotation in Epitaxial Graphene. <i>ACS Nano</i> , 2012, 6, 3564-3572.	7.3	77
119	Disorder and Defect Healing in Graphene on Ni(111). <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 136-139.	2.1	65
120	Bulk and surface characterization of In ₂ O ₃ single crystals. <i>Physical Review B</i> , 2012, 85, .	1.1	62
121	Ordered Array of Single Adatoms with Remarkable Thermal Stability on TiO ₂ Anatase	2.9	176
122	Ordered Array of Single Adatoms with Remarkable Thermal Stability on Au-Fe ₃ O ₄ (stretchy="false")	2.9	109
123	Oxygen-Stabilized Rh Adatoms: OD Oxides on a Vicinal Surface. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2747-2751.	2.1	5
124	In-situ magnetic nano-patterning of Fe films grown on Cu(100). <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	13
125	Growth of ultrathin cobalt oxide films on Pt(111). <i>Physical Review B</i> , 2011, 84, .	1.1	50
126	Growth and structure of an ultrathin tin oxide film on Rh(111). <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	7

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127	Room Temperature Water Splitting at the Surface of Magnetite. Journal of the American Chemical Society, 2011, 133, 12650-12655.	6.6	127
128	A metastable Fe(A) termination at the Fe ₃ O ₄ (001) surface. Surface Science, 2011, 605, L42-L45.	0.8	42
129	Unusual Cluster Shapes and Directional Bonding of an fcc Metal: $\text{Pt}_{111} \text{Ti}$	2.9	6
130	Oxide Surface Science. Annual Review of Physical Chemistry, 2010, 61, 129-148.	4.8	168
131	Ion-beam-induced magnetic transformation of CO-stabilized fcc Fe films on Cu(100). Physical Review B, 2010, 82, .	1.1	7
132	Observation and Destruction of an Elusive Adsorbate with STM: O_2	1.9	17
133	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
134	Highly ordered Pd, Fe, and Co clusters on alumina on Ni_3O	1.1	38
135	Metastable surface oxide on CoGa(100): Structure and stability. Physical Review B, 2010, 81, .	1.1	7
136	High Island Densities in Pulsed Laser Deposition: Causes and Implications. Physical Review Letters, 2009, 103, 076101.	2.9	19
137	Magnetism of FePt Surface Alloys. Physical Review Letters, 2009, 102, 067207.	2.9	45
138	A LEED study of NO superstructures on the Pd(111) surface. Journal of Physics Condensed Matter, 2009, 21, 134005.	0.7	6
139	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
140	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
141	Structure and catalytic reactivity of Rh oxides. Catalysis Today, 2009, 145, 227-235.	2.2	71
142	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
143	Ultrathin alumina film on Cu ₉₀ Al ₁₀ (111). Surface Science, 2008, 602, 1750-1756.	0.8	35
144	Stressing Pd atoms: Initial oxidation of the Pd(110) surface. Surface Science, 2008, 602, 2440-2447.	0.8	31

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145	Fabrication of a Well-Ordered Nanohole Array Stable at Room Temperature. Nano Letters, 2008, 8, 2035-2040.	4.5	25
146	Ion-beam induced fcc-bcc transition in ultrathin Fe films for ferromagnetic patterning. Applied Physics Letters, 2008, 93, 063102.	1.5	17
147	Time-of-flight spectroscopy of the energy distribution of laser-ablated atoms and ions. Review of Scientific Instruments, 2008, 79, 043301.	0.6	5
148	Step-Orientation-Dependent Oxidation: From 1D to 2D Oxides. Physical Review Letters, 2008, 101, 266104.	2.9	49
149	Oxidation of Pd(553): From ultrahigh vacuum to atmospheric pressure. Physical Review B, 2007, 76, .	1.1	70
150	Nanotemplate with Holes: Ultrathin Alumina on Ni ₃ Al(111). Physical Review Letters, 2007, 99, 196104.	2.9	122
151	Surface oxides on Pd(111): STM and density functional calculations. Physical Review B, 2007, 76, .	1.1	69
152	The surface oxide: A LEED, DFT and STM study. Surface Science, 2007, 601, 1574-1581.	0.8	96
153	Pd, Co and Co/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
154	Coexistence of fcc- and bcc-like crystal structures in ultrathin Fe films grown on Cu(111). Physical Review B, 2006, 73, .	1.1	40
155	Structure of Ag(111)-p(4 \times 4)-O: No Silver Oxide. Physical Review Letters, 2006, 96, 146102.	2.9	141
156	Unusual Process of Water Formation on RuO ₂ (110) by Hydrogen Exposure at Room Temperature. Journal of Physical Chemistry B, 2006, 110, 14007-14010.	1.2	35
157	Kinetics of the Reduction of the Rh(111) Surface Oxide: Linking Spectroscopy and Atomic-Scale Information. Journal of Physical Chemistry B, 2006, 110, 9966-9975.	1.2	27
158	Growth and decay of the Pd(111)-Pd ₅ O ₄ surface oxide: Pressure-dependent kinetics and structural aspects. Surface Science, 2006, 600, 205-218.	0.8	57
159	Combined STM, LEED and DFT study of Ag(100) exposed to oxygen near atmospheric pressures. Surface Science, 2006, 600, 617-624.	0.8	29
160	Surface oxides on close-packed surfaces of late transition metals. Journal of Physics Condensed Matter, 2006, 18, R481-R499.	0.7	107
161	Chemical ordering and composition fluctuations at the (001) surface of the Fe ₆₄ Ni ₃₆ Invar alloy. Physical Review B, 2006, 74, .	1.1	8
162	Oxygen-Deficient Line Defects in an Ultrathin Aluminum Oxide Film. Physical Review Letters, 2006, 97, 046101.	2.9	123

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163	Oxygen-induced step bunching and faceting of Rh(553): Experiment and ab initio calculations. Physical Review B, 2006, 74, .	1.1	71
164	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
165	The surface oxide as a source of oxygen on Rh(111). Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 367-372.	0.8	62
166	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
167	One-Dimensional PtO ₂ at Pt Steps: Formation and Reaction with CO. Physical Review Letters, 2005, 95, 256102.	2.9	131
168	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
169	Growth of ultrathin Fe films on Cu(111) by pulsed laser deposition. Surface Science, 2005, 594, 120-131.	0.8	8
170	Structure of a thin oxide film on Rh(100). Physical Review B, 2005, 71, .	1.1	101
171	Structure of the Ultrathin Aluminum Oxide Film on NiAl(110). Science, 2005, 308, 1440-1442.	6.0	342
172	Atomic structure of an Al-Co-Nidecagonal quasicrystalline surface. Physical Review B, 2004, 70, .	1.1	31
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