

Edvin Lundgren

List of Publications by Year in descending order

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289
papers

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20797

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docs citations

295
times ranked

8491
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomic-Scale Structure and Catalytic Reactivity of the RuO ₂ (110) Surface. <i>Science</i> , 2000, 287, 1474-1476.	6.0	829
2	Two-Dimensional Oxide on Pd(111). <i>Physical Review Letters</i> , 2002, 88, 246103.	2.9	267
3	Kinetic Hindrance during the Initial Oxidation of Pd(100) at Ambient Pressures. <i>Physical Review Letters</i> , 2004, 92, 046101.	2.9	209
4	Surface core-level shifts of some 4d-metal single-crystal surfaces: Experiments and ab initio calculations. <i>Physical Review B</i> , 1994, 50, 17525-17533.	1.1	201
5	The Pd(111)-O surface oxide revisited. <i>Surface Science</i> , 2003, 541, 101-112.	0.8	201
6	Self-Limited Growth of a Thin Oxide Layer on Rh(111). <i>Physical Review Letters</i> , 2004, 92, 126102.	2.9	198
7	The Active Phase of Palladium during Methane Oxidation. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 678-682.	2.1	183
8	The thickness of native oxides on aluminum alloys and single crystals. <i>Applied Surface Science</i> , 2015, 349, 826-832.	3.1	174
9	High-Energy Surface X-ray Diffraction for Fast Surface Structure Determination. <i>Science</i> , 2014, 343, 758-761.	6.0	144
10	Structure of Ag(111)-p(4 \times 4)-O: No Silver Oxide. <i>Physical Review Letters</i> , 2006, 96, 146102.	2.9	141
11	Influence of chemical interaction at the lattice-mismatched $\sqrt{3}\sqrt{3}$ -Rh(111) and $\sqrt{3}\sqrt{3}$ -Pt(111) interfaces on the overlayer morphology. <i>Physical Review B</i> , 2007, 75, .	1.1	139
12	One-Dimensional PtO ₂ at Pt Steps: Formation and Reaction with CO. <i>Physical Review Letters</i> , 2005, 95, 256102.	2.9	131
13	Adsorption Sites and Ligand Effect for CO on an Alloy Surface: A Direct View. <i>Physical Review Letters</i> , 2001, 87, 036103.	2.9	129
14	Impact of Atomic Oxygen on the Structure of Graphene Formed on Ir(111) and Pt(111). <i>Journal of Physical Chemistry C</i> , 2011, 115, 9568-9577.	1.5	125
15	Stable Deacon Process for HCl Oxidation over RuO ₂ . <i>Angewandte Chemie - International Edition</i> , 2008, 47, 2131-2134.	7.2	123
16	Intermixing in the Na on Al(111) system. <i>Physical Review Letters</i> , 1992, 68, 94-97.	2.9	118
17	Alkali metal adsorption on Al(111). <i>Surface Science</i> , 1993, 289, 307-334.	0.8	111
18	Surface oxides on close-packed surfaces of late transition metals. <i>Journal of Physics Condensed Matter</i> , 2006, 18, R481-R499.	0.7	107

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19	<i>In-Situ</i> X-Ray Photoelectron Spectroscopy of Model Catalysts: At the Edge of the Gap. <i>Physical Review Letters</i> , 2013, 110, 117601.	2.9	107
20	Surface structure and reactivity of Pd(100) during CO oxidation near ambient pressures. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 13167.	1.3	104
21	Thin films of Co on Pt(111): Strain relaxation and growth. <i>Physical Review B</i> , 2000, 62, 2843-2851.	1.1	103
22	Surface x-ray diffraction from Co/Pt(111) ultrathin films and alloys: Structure and magnetism. <i>Physical Review B</i> , 1997, 56, 9848-9857.	1.1	101
23	Structure of a thin oxide film on Rh(100). <i>Physical Review B</i> , 2005, 71, .	1.1	101
24	Chemistry of Supported Palladium Nanoparticles during Methane Oxidation. <i>ACS Catalysis</i> , 2015, 5, 2481-2489.	5.5	98
25	The surface oxide: A LEED, DFT and STM study. <i>Surface Science</i> , 2007, 601, 1574-1581.	0.8	96
26	On the adsorption sites for CO on the Rh(111) single crystal surface. <i>Surface Science</i> , 1997, 371, 381-389.	0.8	94
27	A single h-BN layer on Pt(111). <i>Surface Science</i> , 2008, 602, 1722-1726.	0.8	94
28	Understanding the Structural Deactivation of Ruthenium Catalysts on an Atomic Scale under both Oxidizing and Reducing Conditions. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 917-920.	7.2	91
29	Ru(0001) Model Catalyst under Oxidizing and Reducing Reaction Conditions: <i>In-Situ</i> High-Pressure Surface X-ray Diffraction Study. <i>Journal of Physical Chemistry B</i> , 2005, 109, 21825-21830.	1.2	89
30	Epitaxial Growth of Indium Arsenide Nanowires on Silicon Using Nucleation Templates Formed by Self-Assembled Organic Coatings. <i>Advanced Materials</i> , 2007, 19, 1801-1806.	11.1	89
31	Complex Interaction of Hydrogen with the RuO ₂ (110) Surface. <i>Journal of Physical Chemistry C</i> , 2007, 111, 5363-5373.	1.5	88
32	Catalytic Activity of the Rh Surface Oxide: CO Oxidation over Rh(111) under Realistic Conditions. <i>Journal of Physical Chemistry C</i> , 2010, 114, 4580-4583.	1.5	88
33	Sensitivity of catalysis to surface structure: The example of CO oxidation on Rh under realistic conditions. <i>Physical Review B</i> , 2008, 78, .	1.1	86
34	Coverage- and temperature-dependent site occupancy of carbon monoxide on Rh(111) studied by high-resolution core-level photoemission. <i>Surface Science</i> , 1998, 396, 117-136.	0.8	84
35	X-ray investigation of subsurface interstitial oxygen at Nb/oxide interfaces. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	84
36	Direct imaging of the atomic structure inside a nanowire by scanning tunnelling microscopy. <i>Nature Materials</i> , 2004, 3, 519-523.	13.3	79

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37	Oxidation and reduction of Pd(100) and aerosol-deposited Pd nanoparticles. <i>Physical Review B</i> , 2011, 83, .	1.1	79
38	Intrinsic Ligand Effect Governing the Catalytic Activity of Pd Oxide Thin Films. <i>ACS Catalysis</i> , 2014, 4, 3330-3334.	5.5	79
39	Electronic and Structural Differences between Wurtzite and Zinc Blende InAs Nanowire Surfaces: Experiment and Theory. <i>ACS Nano</i> , 2014, 8, 12346-12355.	7.3	78
40	Photoemission electron microscopy using extreme ultraviolet attosecond pulse trains. <i>Review of Scientific Instruments</i> , 2009, 80, 123703.	0.6	73
41	On the origin of the Ru-3d5/2 satellite feature from RuO2(). <i>Surface Science</i> , 2002, 504, L196-L200.	0.8	72
42	Adsorption and Activation of CO on Co ₃ O ₄ (111) Thin Films. <i>Journal of Physical Chemistry C</i> , 2015, 119, 16688-16699.	1.5	72
43	Oxygen-induced step bunching and faceting of Rh(553): Experiment and ab initio calculations. <i>Physical Review B</i> , 2006, 74, .	1.1	71
44	Structure and catalytic reactivity of Rh oxides. <i>Catalysis Today</i> , 2009, 145, 227-235.	2.2	71
45	Three surface-shifted core levels on Be(0001). <i>Physical Review Letters</i> , 1993, 71, 2453-2456.	2.9	70
46	Structure of Al(111)-(√3 × √3)R30°-Na: A LEED study. <i>Physical Review B</i> , 1994, 50, 4718-4724.	1.1	70
47	Oxidation of Pd(553): From ultrahigh vacuum to atmospheric pressure. <i>Physical Review B</i> , 2007, 76, .	1.1	70
48	Steps Control the Dissociation of CO ₂ on Cu(100). <i>Journal of the American Chemical Society</i> , 2018, 140, 12974-12979.	6.6	70
49	CO Adsorption on Clean and Oxidized Pd(111). <i>Journal of Physical Chemistry C</i> , 2014, 118, 1118-1128.	1.5	69
50	The Role of Oxides in Catalytic CO Oxidation over Rhodium and Palladium. <i>ACS Catalysis</i> , 2018, 8, 4438-4445.	5.5	69
51	Reaction Mechanism of the Oxidation of HCl over RuO ₂ (110). <i>Journal of Physical Chemistry C</i> , 2008, 112, 9966-9969.	1.5	68
52	Experimental and simulated STM images of stoichiometric and partially reduced RuO2() surfaces including adsorbates. <i>Surface Science</i> , 2002, 515, 143-156.	0.8	67
53	Visualization of Atomic Processes on Ruthenium Dioxide using Scanning Tunneling Microscopy. <i>ChemPhysChem</i> , 2004, 5, 167-174.	1.0	67
54	Ordering of the Nanoscale Step Morphology As a Mechanism for Droplet Self-Propulsion. <i>Nano Letters</i> , 2009, 9, 2710-2714.	4.5	66

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55	One-Dimensional Corrugation of the h-BN Monolayer on Fe(110). <i>Langmuir</i> , 2012, 28, 1775-1781.	1.6	66
56	Direct Imaging of Atomic Scale Structure and Electronic Properties of GaAs Wurtzite and Zinc Blende Nanowire Surfaces. <i>Nano Letters</i> , 2013, 13, 4492-4498.	4.5	63
57	Enhanced surface vibrations and reconstruction of the Al(111) surface induced by Rb adsorption. <i>Physical Review Letters</i> , 1994, 72, 3370-3373.	2.9	62
58	The surface oxide as a source of oxygen on Rh(100). <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005, 144-147, 367-372.	0.8	62
59	Bulk and surface characterization of In_2O_3 (001) single crystals. <i>Physical Review B</i> , 2012, 85, .	1.1	62
60	Spectroscopic characterization of catalytically active surface sites of a metallic oxide. <i>Chemical Physics Letters</i> , 2001, 342, 467-472.	1.2	61
61	CO adsorption on Au(310) and Au(321): 6-Fold coordinated gold atoms. <i>Surface Science</i> , 2009, 603, 2152-2157.	0.8	61
62	Oxygen-induced surface phase transformation of Pd(111): sticking, adsorption and desorption kinetics. <i>Surface Science</i> , 2001, 482-485, 237-242.	0.8	60
63	Direct Imaging of Catalytically Important Processes in the Oxidation of CO over RuO ₂ (110). <i>Journal of the American Chemical Society</i> , 2001, 123, 11807-11808.	6.6	59
64	Direct Atomic Scale Imaging of III-V Nanowire Surfaces. <i>Nano Letters</i> , 2008, 8, 3978-3982.	4.5	59
65	CO Adsorption on a Au/CeO ₂ (111) Model Catalyst. <i>Journal of Physical Chemistry C</i> , 2008, 112, 6900-6906.	1.5	58
66	Changes in the local surface geometry with conserved adsorbate coverage and long-range order caused by annealing. <i>Physical Review B</i> , 1992, 46, 12784-12787.	1.1	54
67	In situ studies of the oxidation of HCl over RuO ₂ model catalysts: Stability and reactivity. <i>Journal of Catalysis</i> , 2010, 272, 169-175.	3.1	54
68	Comment on "CO Oxidation on Pt-Group Metals from Ultrahigh Vacuum to Near Atmospheric Pressures. 2. Palladium and Platinum". <i>Journal of Physical Chemistry C</i> , 2010, 114, 6875-6876.	1.5	54
69	GaAs/AlGaAs Nanowire Heterostructures Studied by Scanning Tunneling Microscopy. <i>Nano Letters</i> , 2007, 7, 2859-2864.	4.5	53
70	In situ structure-activity correlation experiments of the ruthenium catalyzed CO oxidation reaction. <i>Catalysis Today</i> , 2009, 145, 236-242.	2.2	52
71	Formation and Structural Analysis of a Surface Alloy: Al(111)-(2 Å ⁻²)-Na. <i>Physical Review Letters</i> , 1995, 74, 1617-1620.	2.9	51
72	Influence of Oxygen Vacancies on the Properties of Ceria-Supported Gold. <i>Journal of Physical Chemistry C</i> , 2009, 113, 724-728.	1.5	51

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73	Step-Orientation-Dependent Oxidation: From 1D to 2D Oxides. Physical Review Letters, 2008, 101, 266104.	2.9	49
74	A surface x-ray study of the structure and morphology of the oxidized Pd(001) surface. Journal of Chemical Physics, 2005, 122, 044706.	1.2	48
75	X-ray photoemission analysis of clean and carbon monoxide-chemisorbed platinum(111) stepped surfaces using a curved crystal. Nature Communications, 2015, 6, 8903.	5.8	48
76	Structure and reactivity of a model catalyst alloy under realistic conditions. Journal of Physics Condensed Matter, 2008, 20, 184018.	0.7	47
77	Reversible formation of a PdC _x phase in Pd nanoparticles upon CO and O ₂ exposure. Physical Chemistry Chemical Physics, 2012, 14, 4796.	1.3	47
78	High-Coverage Oxygen Structures on Rh(111): Adsorbate Repulsion and Site Preference Is Not Enough. Physical Review Letters, 2004, 93, 266103.	2.9	46
79	High-Coverage Oxygen-Induced Surface Structures on Ag(111). Journal of Physical Chemistry C, 2014, 118, 15324-15331.	1.5	46
80	Observation of a low-binding-energy peak in the 2p-core-level photoemission from oxidized Al(111). Physical Review B, 1993, 47, 13063-13066.	1.1	45
81	Surface and subsurface alloy formation of vanadium on Pd(111). Surface Science, 2000, 463, 199-210.	0.8	45
82	Stable Cation Inversion at the $MgAl_2O_4$ surface. Physical Review Letters, 2004, 93, 266103.	2.9	45
83	Potential-Induced Pitting Corrosion of an Ir ₂ (110)-Ru ₂ (110)/Ru(0001) Model Electrode under Oxygen Evolution Reaction Conditions. ACS Catalysis, 2019, 9, 6530-6539.	5.5	43
84	Lack of surface oxide layers and facile bulk oxide formation on Pd(110). Physical Review B, 2009, 80, .	1.1	41
85	Direct comparison of the reactivity of the non-oxidic phase of Ru(0001) and the RuO ₂ phase in the CO oxidation reaction. Surface Science, 2009, 603, 298-303.	0.8	41
86	Evidence for the Active Phase of Heterogeneous Catalysts through In Situ Reaction Product Imaging and Multiscale Modeling. ACS Catalysis, 2015, 5, 4514-4518.	5.5	41
87	Transient Structures of PdO during CO Oxidation over Pd(100). Journal of Physical Chemistry C, 2015, 119, 15469-15476.	1.5	41
88	Spatially and temporally resolved gas distributions around heterogeneous catalysts using infrared planar laser-induced fluorescence. Nature Communications, 2015, 6, 7076.	5.8	41
89	Novel In Situ Techniques for Studies of Model Catalysts. Accounts of Chemical Research, 2017, 50, 2326-2333.	7.6	39
90	Magnetic anisotropy of ultrathin cobalt films on Pt(111) investigated with x-ray diffraction: Effect of atomic mixing at the interface. Physical Review B, 2002, 65, .	1.1	38

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91	Understanding the Intrinsic Surface Reactivity of Single-Layer and Multilayer PdO(101) on Pd(100). ACS Catalysis, 2018, 8, 8553-8567.	5.5	38
92	Surface Chemistry, Structure, and Electronic Properties from Microns to the Atomic Scale of Axially Doped Semiconductor Nanowires. ACS Nano, 2012, 6, 9679-9689.	7.3	37
93	Strain Dependent Light-off Temperature in Catalysis Revealed by Planar Laser-Induced Fluorescence. ACS Catalysis, 2017, 7, 110-114.	5.5	36
94	Redefining passivity breakdown of super duplex stainless steel by electrochemical operando synchrotron near surface X-ray analyses. Npj Materials Degradation, 2019, 3, .	2.6	36
95	Surface x-ray-diffraction study of the Rh(111)+(2 $\sqrt{3}$ \times 2 $\sqrt{3}$) CO structure. Physical Review B, 1999, 59, 5876-5880.	1.1	35
96	An atomic-scale study of the Co induced dendrite formation on Pt(111). Surface Science, 1999, 423, 357-363.	0.8	35
97	Interaction of H ₂ , CO and O ₂ with a vanadium (111) surface. Surface Science, 2000, 447, 245-258.	0.8	35
98	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
99	Improving InAs nanotree growth with composition-controlled Au-In nanoparticles. Nanotechnology, 2006, 17, 1344-1350.	1.3	35
100	An in situ set up for the detection of CO ₂ from catalytic CO oxidation by using planar laser-induced fluorescence. Review of Scientific Instruments, 2012, 83, 053104.	0.6	35
101	In Situ Investigations of Chemical Reactions on Surfaces by X-Ray Diffraction at Atmospheric Pressures. MRS Bulletin, 2007, 32, 1010-1014.	1.7	34
102	Mechanism for reversed photoemission core-level shifts of oxidized Ag. Physical Review B, 2012, 85, .	1.1	34
103	Structure of the Rh ₂ O ₃ (0001) surface. Surface Science, 2012, 606, 1416-1421.	0.8	34
104	Surface composition of clean and oxidized Pd ₇₅ Ag ₂₅ (100) from photoelectron spectroscopy and density functional theory calculations. Surface Science, 2012, 606, 1777-1782.	0.8	34
105	Interlayer Diffusion of Adatoms: A Scanning-Tunneling Microscopy Study. Physical Review Letters, 1999, 82, 5068-5071.	2.9	33
106	Identification of Step Atoms by High Resolution Core Level Spectroscopy. Physical Review Letters, 2003, 91, 056102.	2.9	33
107	Growth and Reactivity of Titanium Oxide Ultrathin Films on Ni(110). Journal of Physical Chemistry C, 2007, 111, 7704-7710.	1.5	33
108	Thickness and composition of native oxides and near-surface regions of Ni superalloys. Journal of Alloys and Compounds, 2022, 895, 162657.	2.8	33

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109	Layer dependent core level binding energy shifts: Na, K, Rb and Cs on Al(111). Surface Science, 1993, 281, 83-90.	0.8	32
110	The influence of lysine on InP(001) surface ordering and nanowire growth. Nanotechnology, 2005, 16, 2354-2359.	1.3	32
111	Generation of Pd Model Catalyst Nanoparticles by Spark Discharge. Journal of Physical Chemistry C, 2010, 114, 9257-9263.	1.5	32
112	Local Density of States and Interface Effects in Semimetallic ErAs Nanoparticles Embedded in GaAs. Physical Review Letters, 2011, 107, 036806.	2.9	32
113	Quantitative surface structure determination using in situ high-energy SXRD: Surface oxide formation on Pd(100) during catalytic CO oxidation. Surface Science, 2014, 630, 229-235.	0.8	32
114	Growth of Ultrathin Iron Oxide Films on Ag(100). Journal of Physical Chemistry C, 2015, 119, 2572-2582.	1.5	32
115	In-situ synchrotron GIXRD study of passive film evolution on duplex stainless steel in corrosive environment. Corrosion Science, 2018, 141, 18-21.	3.0	32
116	Stressing Pd atoms: Initial oxidation of the Pd(110) surface. Surface Science, 2008, 602, 2440-2447.	0.8	31
117	Impact of Oxygen Coadsorption on Intercalation of Cobalt under the h-BN Nanomesh. Nano Letters, 2009, 9, 2780-2787.	4.5	30
118	2D and 3D imaging of the gas phase close to an operating model catalyst by planar laser induced fluorescence. Journal of Physics Condensed Matter, 2016, 28, 453002.	0.7	30
119	Effects of non-local exchange on core level shifts for gas-phase and adsorbed molecules. Journal of Chemical Physics, 2014, 141, 034706.	1.2	29
120	Surface core-level shift of the Mo(110) surface. Physical Review B, 1993, 48, 5525-5529.	1.1	28
121	Determination of scaling exponents in Ag(100) homoepitaxy with x-ray diffraction profiles. Physical Review B, 1998, 57, 6325-6328.	1.1	28
122	Dynamic response of chlorine atoms on a RuO ₂ (110) model catalyst surface. Physical Chemistry Chemical Physics, 2010, 12, 15358.	1.3	28
123	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
124	Segregation and ordering at Fe _{1-x} Al _x (100) surfaces – a model case for binary alloys. Surface Science, 2001, 474, 81-97.	0.8	26
125	Real-Time Gas-Phase Imaging over a Pd(110) Catalyst during CO Oxidation by Means of Planar Laser-Induced Fluorescence. ACS Catalysis, 2015, 5, 2028-2034.	5.5	26
126	Structure of the SnO_2 surface. Journal of Physical Chemistry B, 2006, 110, 9966-9975.	2.9	26

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127	CO dissociation on Mo(110) studied by high-resolution core-level spectroscopy. <i>Surface Science</i> , 2001, 492, 185-194.	0.8	25
128	Hydrogen-Promoted Chlorination of RuO ₂ (110). <i>Journal of Physical Chemistry C</i> , 2010, 114, 10901-10909.	1.5	25
129	Dissociative Adsorption of Hydrogen on PdO(101) Studied by HRCLS and DFT. <i>Journal of Physical Chemistry C</i> , 2013, 117, 13510-13519.	1.5	25
130	Diatomic Steps in Pt(997) Surfaces Are Better Catalysts than Monatomic Steps for the CO Oxidation Reaction near Atmospheric Pressure. <i>ACS Catalysis</i> , 2016, 6, 1285-1291.	5.5	25
131	Catalytic Oxidation of Carbon Monoxide on a Curved Pd Crystal: Spatial Variation of Active and Poisoning Phases in Stationary Conditions. <i>Journal of the American Chemical Society</i> , 2018, 140, 16245-16252.	6.6	24
132	Geometry of the Valence Transition Induced Surface Reconstruction of Sm(0001). <i>Physical Review Letters</i> , 2002, 88, 136102.	2.9	23
133	Complex surface reconstructions solved by ab initio molecular dynamics. <i>Applied Physics A: Materials Science and Processing</i> , 2003, 76, 701-710.	1.1	23
134	Step enhanced dehydrogenation of ethanol on Rh. <i>Surface Science</i> , 2008, 602, 3057-3063.	0.8	23
135	Atomic Scale Surface Structure and Morphology of InAs Nanowire Crystal Superlattices: The Effect of Epitaxial Overgrowth. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 5748-5755.	4.0	23
136	Visualization of Gas Distribution in a Model AP-XPS Reactor by PLIF: CO Oxidation over a Pd(100) Catalyst. <i>Catalysts</i> , 2017, 7, 29.	1.6	23
137	Cross-sectional scanning tunneling microscopy studies of novel III-V semiconductor structures. <i>Progress in Surface Science</i> , 2005, 80, 1-25.	3.8	22
138	A high pressure X-ray photoelectron spectroscopy study of oxidation and reduction of Rh(100) and Rh nanoparticles. <i>Surface Science</i> , 2014, 628, 153-158.	0.8	22
139	Observation of Pore Growth and Self-Organization in Anodic Alumina by Time-Resolved X-ray Scattering. <i>ACS Applied Nano Materials</i> , 2018, 1, 1265-1271.	2.4	22
140	Characterization of Native Oxide and Passive Film on Austenite/Ferrite Phases of Duplex Stainless Steel Using Synchrotron HAXPEEM. <i>Journal of the Electrochemical Society</i> , 2019, 166, C3336-C3340.	1.3	22
141	Thermal Stability of Single-Crystalline IrO ₂ (110) Layers: Spectroscopic and Adsorption Studies. <i>Journal of Physical Chemistry C</i> , 2020, 124, 15324-15336.	1.5	22
142	Lateral variation of the native passive film on super duplex stainless steel resolved by synchrotron hard X-ray photoelectron emission microscopy. <i>Corrosion Science</i> , 2020, 174, 108841.	3.0	22
143	High-energy x-ray diffraction from surfaces and nanoparticles. <i>Physical Review B</i> , 2017, 96, .	1.1	22
144	THE SURFACE STRUCTURES OF Pd(100)-(1 $\sqrt{3}$ -1) AND c(2 $\sqrt{3}$ -2)-K. <i>Surface Review and Letters</i> , 1996, 03, 1339-1343.	0.5	21

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145	Reaction mechanism of ammonia oxidation over RuO ₂ (110): A combined theory/experiment approach. Surface Science, 2009, 603, L113-L116.	0.8	21
146	Surface structure and morphology of InAs(111)B with/without gold nanoparticles annealed under arsenic or atomic hydrogen flux. Surface Science, 2010, 604, 354-360.	0.8	21
147	Comparison of AP-XPS and PLIF Measurements During CO Oxidation Over Pd Single Crystals. Topics in Catalysis, 2016, 59, 478-486.	1.3	21
148	Anodization of Al(100), Al(111) and Al Alloy 6063 studied in situ with X-ray reflectivity and electrochemical impedance spectroscopy. Journal of Electroanalytical Chemistry, 2017, 799, 556-562.	1.9	21
149	Adsorption of NO on Fe ₃ O ₄ (111). Chemical Physics Letters, 2018, 693, 84-87.	1.2	21
150	Ultrathin Films of Co on Pt(111): an STM View. Physica Status Solidi A, 2001, 187, 97-112.	1.7	20
151	Defect structure of Ga _{1-x} Mn _x As: A cross-sectional scanning tunneling microscopy study. Physical Review B, 2004, 70, .	1.1	20
152	Density of Configurational States from First-Principles Calculations: The Phase Diagram of Al-Na Surface Alloys. ChemPhysChem, 2005, 6, 1923-1928.	1.0	20
153	Au wetting and nanoparticle stability on GaAs(111)B. Applied Physics Letters, 2006, 89, 251912.	1.5	20
154	Carbonate formation on $p\text{-GaAs}(111)B$. Physical Review B, 2011, 84, .	1.1	20
155	Simultaneous Imaging of Gas Phase over and Surface Reflectance of a Pd(100) Single Crystal during CO Oxidation. Journal of Physical Chemistry C, 2017, 121, 23511-23519.	1.5	20
156	Combining high-energy X-ray diffraction with Surface Optical Reflectance and Planar Laser Induced Fluorescence for <i>operando</i> catalyst surface characterization. Review of Scientific Instruments, 2019, 90, 033703.	0.6	20
157	Nanowire growth and dopants studied by cross-sectional scanning tunnelling microscopy. Nanotechnology, 2006, 17, S362-S368.	1.3	19
158	High-resolution core-level spectroscopy study of the ultrathin aluminum oxide film on NiAl(110). Physical Review B, 2011, 83, .	1.1	19
159	Reduction behavior of oxidized Pd(100) and Pd ₇₅ Ag ₂₅ (100) surfaces using CO. Surface Science, 2014, 621, 31-39.	0.8	19
160	Integration of electrochemical and synchrotron-based X-ray techniques for in-situ investigation of aluminum anodization. Electrochimica Acta, 2017, 241, 299-308.	2.6	19
161	A convenient setup for laser-induced fluorescence imaging of both CO and CO ₂ during catalytic CO oxidation. Applied Physics B: Lasers and Optics, 2017, 123, 1.	1.1	19
162	Reversible Modification of the Structural and Electronic Properties of a Boron Nitride Monolayer by CO Intercalation. ChemPhysChem, 2015, 16, 923-927.	1.0	18

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163	Recent advances in surface x-ray diffraction and the potential for determining structure-sensitivity relations in single-crystal electrocatalysis. <i>Current Opinion in Electrochemistry</i> , 2020, 23, 162-173.	2.5	18
164	Polarisation-dependent X-ray absorption in high- and low-Tc Bi ₂ Sr ₂ Ca _{n-1} Cu _n O _{4+2n} superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 1993, 214, 119-126.	0.6	17
165	Core-level shifts on Be(101 \hat{A} 0). <i>Physical Review B</i> , 1994, 49, 17460-17463.	1.1	17
166	Co on Mo(110) studied by scanning tunneling microscopy. <i>Surface Science</i> , 2004, 557, 109-118.	0.8	17
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