

Edvin Lundgren

List of Publications by Year in descending order

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289
papers

11,344
citations

20797

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43868

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295
all docs

295
docs citations

295
times ranked

8491
citing authors

#	ARTICLE	IF	CITATIONS
1	Steps and catalytic reactions: CO oxidation with preadsorbed O on Rh(553). Surface Science, 2022, 715, 121928.	0.8	2
2	Thickness and composition of native oxides and near-surface regions of Ni superalloys. Journal of Alloys and Compounds, 2022, 895, 162657.	2.8	33
3	Infrared surface spectroscopy and surface optical reflectance for operando catalyst surface characterization. Applied Surface Science, 2022, 578, 152048.	3.1	4
4	Oxidation and Reduction of Ir(100) Studied by High-Energy Surface X-ray Diffraction. Journal of Physical Chemistry C, 2022, 126, 5244-5255.	1.5	6
5	Structural Changes in Monolayer Cobalt Oxides under Ambient Pressure CO and O ₂ Studied by In Situ Grazing-Incidence X-ray Absorption Fine Structure Spectroscopy. Journal of Physical Chemistry C, 2022, 126, 3411-3418.	1.5	9
6	Structure of an Ultrathin Oxide on Pt ₃ Sn(111) Solved by Machine Learning Enhanced Global Optimization**. Angewandte Chemie, 2022, 134, .	1.6	3
7	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
8	Templated electrodeposition as a scalable and surfactant-free approach to the synthesis of Au nanoparticles with tunable aspect ratios. Nanoscale Advances, 2022, 4, 2452-2467.	2.2	5
9	Visualizing the Gas Diffusion Induced Ignition of a Catalytic Reaction. ACS Catalysis, 2022, 12, 6589-6595.	5.5	6
10	In situ scanning x-ray diffraction reveals strain variations in electrochemically grown nanowires. Journal Physics D: Applied Physics, 2021, 54, 235301.	1.3	7
11	<i>Operando</i> Reflectance Microscopy on Polycrystalline Surfaces in Thermal Catalysis, Electrocatalysis, and Corrosion. ACS Applied Materials & Interfaces, 2021, 13, 19530-19540.	4.0	14
12	The Structure of the Active Pd State During Catalytic Carbon Monoxide Oxidization. Journal of Physical Chemistry Letters, 2021, 12, 4461-4465.	2.1	15
13	Bridging the Pressure Gap in CO Oxidation. ACS Catalysis, 2021, 11, 9128-9135.	5.5	14
14	Quantitative powder diffraction using a (2θ...+â€...3) surface diffractometer and an area detector. Journal of Applied Crystallography, 2021, 54, 1140-1152.	1.9	6
15	Revisiting Optical Reflectance from Au(111) Electrode Surfaces with Combined High-Energy Surface X-ray Diffraction. Journal of the Electrochemical Society, 2021, 168, 096511.	1.3	9
16	Reduced Carbon Monoxide Saturation Coverage on Vicinal Palladium Surfaces: the Importance of the Adsorption Site. Journal of Physical Chemistry Letters, 2021, 12, 9508-9515.	2.1	3
17	Operando Stability Studies of Ultrathin Single-Crystalline IrO ₂ (110) Films under Acidic Oxygen Evolution Reaction Conditions. ACS Catalysis, 2021, 11, 12651-12660.	5.5	17
18	Combining PM-IRRAS with optical imaging techniques for operando studies of CO oxidation. , 2021, , .		0

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19	High energy surface x-ray diffraction applied to model catalyst surfaces at work. Journal of Physics Condensed Matter, 2021, 33, 073001.	0.7	11
20	Recent advances in surface x-ray diffraction and the potential for determining structure-sensitivity relations in single-crystal electrocatalysis. Current Opinion in Electrochemistry, 2020, 23, 162-173.	2.5	18
21	<i>In situ</i> studies of the cathodic stability of single-crystalline IrO ₂ (110) ultrathin films supported on RuO ₂ (110)/Ru(0001) in an acidic environment. Physical Chemistry Chemical Physics, 2020, 22, 22956-22962.	1.3	2
22	Operando time- and space-resolved high-energy X-ray diffraction measurement to understand hydrogen-microstructure interactions in duplex stainless steel. Corrosion Science, 2020, 175, 108899.	3.0	10
23	High-Resolution X-ray Photoelectron Spectroscopy of an IrO ₂ (110) Film on Ir(100). Journal of Physical Chemistry Letters, 2020, 11, 7184-7189.	2.1	14
24	Catalytic Oxidation of CO on a Curved Pt(111) Surface: Simultaneous Ignition at All Facets through a Transient CO π Complex**. Angewandte Chemie - International Edition, 2020, 59, 20037-20043.	7.2	13
25	Catalytic Oxidation of CO on a Curved Pt(111) Surface: Simultaneous Ignition at All Facets through a Transient CO π Complex**. Angewandte Chemie, 2020, 132, 20212-20218.	1.6	1
26	Thermal Stability of Single-Crystalline IrO ₂ (110) Layers: Spectroscopic and Adsorption Studies. Journal of Physical Chemistry C, 2020, 124, 15324-15336.	1.5	22
27	Metastable precursor structures in hydrogen-infused super duplex stainless steel microstructure – An operando diffraction experiment. Corrosion Science, 2020, 176, 109021.	3.0	14
28	Extraordinary Stability of IrO ₂ (110) Ultrathin Films Supported on TiO ₂ (110) under Cathodic Polarization. Journal of Physical Chemistry Letters, 2020, 11, 9057-9062.	2.1	9
29	Ammonia Oxidation over a Pt ₂₅ Rh ₇₅ (001) Model Catalyst Surface: An Operando Study. Journal of Physical Chemistry C, 2020, 124, 22192-22199.	1.5	7
30	An electrochemical cell for 2-dimensional surface optical reflectance during anodization and cyclic voltammetry. Review of Scientific Instruments, 2020, 91, 044101.	0.6	17
31	Structure of two-dimensional Fe ₃ O ₄ . Journal of Chemical Physics, 2020, 152, 114705.	1.2	10
32	Lateral variation of the native passive film on super duplex stainless steel resolved by synchrotron hard X-ray photoelectron emission microscopy. Corrosion Science, 2020, 174, 108841.	3.0	22
33	CO Chemisorption on Vicinal Rh(111) Surfaces Studied with a Curved Crystal. Journal of Physical Chemistry C, 2020, 124, 9305-9313.	1.5	13
34	Surface optical reflectance combined with x-ray techniques during gas-surface interactions. Journal Physics D: Applied Physics, 2020, 53, 224001.	1.3	15
35	Electrochemical Fabrication and Characterization of Palladium Nanowires in Nanoporous Alumina Templates. Journal of the Electrochemical Society, 2020, 167, 122514.	1.3	11
36	Characterization of Native Oxide and Passive Film on Austenite/Ferrite Phases of Duplex Stainless Steel Using Synchrotron HAXPEEM. Journal of the Electrochemical Society, 2019, 166, C3336-C3340.	1.3	22

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37	Temperature characterization of an operando flow reactor for heterogeneous catalysis. Journal Physics D: Applied Physics, 2019, 52, 324003.	1.3	10
38	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
39	Potential-Induced Pitting Corrosion of an IrO ₂ (110)-RuO ₂ (110)/Ru(0001) Model Electrode under Oxygen Evolution Reaction Conditions. ACS Catalysis, 2019, 9, 6530-6539.	5.5	43
40	Combining Planar Laser-Induced Fluorescence with Stagnation Point Flows for Small Single-Crystal Model Catalysts: CO Oxidation on a Pd(100). Catalysts, 2019, 9, 484.	1.6	5
41	The State of Electrodeposited Sn Nanopillars within Porous Anodic Alumina from <i>in Situ</i> X-ray Observations. ACS Applied Nano Materials, 2019, 2, 3031-3038.	2.4	12
42	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
43	Influence of Surface Strain on Passive Film Formation of Duplex Stainless Steel and Its Degradation in Corrosive Environment. Journal of the Electrochemical Society, 2019, 166, C3071-C3080.	1.3	17
44	Surface oxide development on aluminum alloy 6063 during heat treatment. Surface and Interface Analysis, 2019, 51, 1214-1224.	0.8	4
45	Structure dependent effect of silicon on the oxidation of Al(111) and Al(100). Surface Science, 2019, 684, 1-11.	0.8	2
46	Observing growth under confinement: Sn nanopillars in porous alumina templates. Nanoscale Advances, 2019, 1, 4764-4771.	2.2	8
47	In situ observation of synthesized nanoparticles in ultra-dilute aerosols via X-ray scattering. Nano Research, 2019, 12, 25-31.	5.8	9
48	Observation of Pore Growth and Self-Organization in Anodic Alumina by Time-Resolved X-ray Scattering. ACS Applied Nano Materials, 2018, 1, 1265-1271.	2.4	22
49	The Role of Oxides in Catalytic CO Oxidation over Rhodium and Palladium. ACS Catalysis, 2018, 8, 4438-4445.	5.5	69
50	Adsorption of NO on Fe ₃ O ₄ (111). Chemical Physics Letters, 2018, 693, 84-87.	1.2	21
51	Surface development of a brazing alloy during heat treatment—a comparison between UHV and APXPS. Journal of Physics Condensed Matter, 2018, 30, 024004.	0.7	2
52	Catalytic Oxidation of Carbon Monoxide on a Curved Pd Crystal: Spatial Variation of Active and Poisoning Phases in Stationary Conditions. Journal of the American Chemical Society, 2018, 140, 16245-16252.	6.6	24
53	Steps Control the Dissociation of CO ₂ on Cu(100). Journal of the American Chemical Society, 2018, 140, 12974-12979.	6.6	70
54	Self-organization of porous anodic alumina films studied <i>in situ</i> by grazing-incidence transmission small-angle X-ray scattering. RSC Advances, 2018, 8, 18980-18991.	1.7	17

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55	Understanding the Intrinsic Surface Reactivity of Single-Layer and Multilayer PdO(101) on Pd(100). ACS Catalysis, 2018, 8, 8553-8567.	5.5	38
56	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
57	Combining synchrotron light with laser technology in catalysis research. Journal of Synchrotron Radiation, 2018, 25, 1389-1394.	1.0	9
58	Turning Nano Porous Aluminium Black: An in Situ High-Energy X-Ray Diffraction and X-Ray Fluorescence Study. ECS Meeting Abstracts, 2018, , .	0.0	0
59	In-Situ X-Ray Observations of Sn Electrodeposition into Anodized Alumina. ECS Meeting Abstracts, 2018, , .	0.0	0
60	In-Situ Observations of Anodic Alumina Nanopore Growth and Self-Organisation. ECS Meeting Abstracts, 2018, , .	0.0	0
61	The influence of incommensurability on the long-range periodicity of the Pd(100)-($\sqrt{3}$) \times ($\sqrt{3}$) \times 1-Rh surface. Surface Science, 2017, 660, 1-8.	0.8	11
62	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
63	Surface-Sensitive X-ray Diffraction Across the Pressure Gap. Springer Series in Chemical Physics, 2017, , 59-87.	0.2	7
64	Planar Laser Induced Fluorescence Applied to Catalysis. Springer Series in Chemical Physics, 2017, , 131-149.	0.2	4
65	Co ₃ O ₄ (100) films grown on Ag(100): Structure and chemical properties. Surface Science, 2017, 657, 90-95.	0.8	10
66	Electronic Structure Changes Due to Crystal Phase Switching at the Atomic Scale Limit. ACS Nano, 2017, 11, 10519-10528.	7.3	15
67	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
68	Structure of the $\sqrt{3}\times\sqrt{3}\times 1$ Rh Surface. Surface Science, 2017, 657, 90-95.	2.9	26
69	Novel in Situ Techniques for Studies of Model Catalysts. Accounts of Chemical Research, 2017, 50, 2326-2333.	7.6	39
70	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
71	Redox behavior of iron at the surface of an O(100) single crystal studied by ambient-pressure photoelectron spectroscopy. Journal of Lithic Studies, 2017, 3, 95-103.	0.1	8
72	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

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73	Fe Oxides on Ag Surfaces: Structure and Reactivity. Topics in Catalysis, 2017, 60, 492-502.	1.3	10
74	Strain Dependent Light-off Temperature in Catalysis Revealed by Planar Laser-Induced Fluorescence. ACS Catalysis, 2017, 7, 110-114.	5.5	36
75	Adsorption of hydrogen on stable and metastable Ir(100) surfaces. Surface Science, 2017, 656, 66-76.	0.8	9
76	Infrared Spectroscopy as Molecular Probe of the Macroscopic Metal-Liquid Interface. Applied Sciences (Switzerland), 2017, 7, 1229.	1.3	1
77	Visualization of Gas Distribution in a Model AP-XPS Reactor by PLIF: CO Oxidation over a Pd(100) Catalyst. Catalysts, 2017, 7, 29.	1.6	23
78	High-energy x-ray diffraction from surfaces and nanoparticles. Physical Review B, 2017, 96, .	1.1	22
79	Tuning the Reactivity of Ultrathin Oxides: NO Adsorption on Monolayer FeO(111). Angewandte Chemie, 2016, 128, 9413-9417.	1.6	2
80	Methanol Adsorption and Oxidation on Reduced and Oxidized TbO _x (111) Surfaces. Journal of Physical Chemistry C, 2016, 120, 28617-28629.	1.5	11
81	Surface development of an aluminum brazing sheet during heating studied by XPEEM and XPS. Materials Research Express, 2016, 3, 106506.	0.8	5
82	Comparison of AP-XPS and PLIF Measurements During CO Oxidation Over Pd Single Crystals. Topics in Catalysis, 2016, 59, 478-486.	1.3	21
83	Adsorption of NO on FeO _x Films Grown on Ag(111). Journal of Physical Chemistry C, 2016, 120, 9282-9291.	1.5	11
84	Oxidation of Fe(110) in oxygen gas at 400 Å°C. Surface Science, 2016, 644, 172-179.	0.8	10
85	Tuning the Reactivity of Ultrathin Oxides: NO Adsorption on Monolayer FeO(111). Angewandte Chemie - International Edition, 2016, 55, 9267-9271.	7.2	16
86	Step dynamics and oxide formation during CO oxidation over a vicinal Pd surface. Physical Chemistry Chemical Physics, 2016, 18, 20312-20320.	1.3	14
87	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
88	Diatomic Steps in Pt(997) Surfaces Are Better Catalysts than Monatomic Steps for the CO Oxidation Reaction near Atmospheric Pressure. ACS Catalysis, 2016, 6, 1285-1291.	5.5	25
89	Laser Diagnostics for the Study of Heterogeneous Catalysis. , 2016, , .		0
90	Correlation between stoichiometry and surface structure of the polar MgAl ₂ O ₄ (100) surface as a function of annealing temperature. Physical Chemistry Chemical Physics, 2015, 17, 5795-5804.	1.3	9

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91	X-ray photoemission analysis of clean and carbon monoxide-chemisorbed platinum(111) stepped surfaces using a curved crystal. <i>Nature Communications</i> , 2015, 6, 8903.	5.8	48
92	Real-Time Gas-Phase Imaging over a Pd(110) Catalyst during CO Oxidation by Means of Planar Laser-Induced Fluorescence. <i>ACS Catalysis</i> , 2015, 5, 2028-2034.	5.5	26
93	Growth of Ultrathin Iron Oxide Films on Ag(100). <i>Journal of Physical Chemistry C</i> , 2015, 119, 2572-2582.	1.5	32
94	Chemistry of Supported Palladium Nanoparticles during Methane Oxidation. <i>ACS Catalysis</i> , 2015, 5, 2481-2489.	5.5	98
95	Faceting of Rhodium(553) in Realistic Reaction Mixtures of Carbon Monoxide and Oxygen. <i>Journal of Physical Chemistry C</i> , 2015, 119, 11646-11652.	1.5	8
96	Evidence for the Active Phase of Heterogeneous Catalysts through In Situ Reaction Product Imaging and Multiscale Modeling. <i>ACS Catalysis</i> , 2015, 5, 4514-4518.	5.5	41
97	Transient Structures of PdO during CO Oxidation over Pd(100). <i>Journal of Physical Chemistry C</i> , 2015, 119, 15469-15476.	1.5	41
98	The thickness of native oxides on aluminum alloys and single crystals. <i>Applied Surface Science</i> , 2015, 349, 826-832.	3.1	174
99	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
100	A well-ordered surface oxide on Fe(110). <i>Surface Science</i> , 2015, 639, 13-19.	0.8	9
101	Manipulating the Dynamics of Self-Propelled Gallium Droplets by Gold Nanoparticles and Nanoscale Surface Morphology. <i>ACS Nano</i> , 2015, 9, 5422-5431.	7.3	13
102	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
103	Surface morphology of Au-free grown nanowires after native oxide removal. <i>Nanoscale</i> , 2015, 7, 9998-10004.	2.8	12
104	Reversible Modification of the Structural and Electronic Properties of a Boron Nitride Monolayer by CO Intercalation. <i>ChemPhysChem</i> , 2015, 16, 923-927.	1.0	18
105	Spatially and temporally resolved gas distributions around heterogeneous catalysts using infrared planar laser-induced fluorescence. <i>Nature Communications</i> , 2015, 6, 7076.	5.8	41
106	Non-intrusive detection of methanol in gas phase using infrared degenerate four-wave mixing. <i>Applied Physics B: Lasers and Optics</i> , 2015, 121, 123-130.	1.1	3
107	Quantitative surface structure determination using in situ high-energy SXRD: Surface oxide formation on Pd(100) during catalytic CO oxidation. <i>Surface Science</i> , 2014, 630, 229-235.	0.8	32
108	A high pressure x-ray photoelectron spectroscopy study of CO oxidation over Rh(100). <i>Journal of Physics Condensed Matter</i> , 2014, 26, 055003.	0.7	9

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109	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
110	<i>In situ</i> anodization of aluminum surfaces studied by x-ray reflectivity and electrochemical impedance spectroscopy. Journal of Applied Physics, 2014, 116, .	1.1	17
111	Electronic and Structural Differences between Wurtzite and Zinc Blende InAs Nanowire Surfaces: Experiment and Theory. ACS Nano, 2014, 8, 12346-12355.	7.3	78
112	High-Energy Surface X-ray Diffraction for Fast Surface Structure Determination. Science, 2014, 343, 758-761.	6.0	144
113	Reduction behavior of oxidized Pd(100) and Pd75Ag25(100) surfaces using CO. Surface Science, 2014, 621, 31-39.	0.8	19
114	CO Adsorption on Clean and Oxidized Pd(111). Journal of Physical Chemistry C, 2014, 118, 1118-1128.	1.5	69
115	Generation of surface steps on Pt(977) induced by the catalytic oxidation of CO. Journal of Catalysis, 2014, 309, 33-37.	3.1	15
116	Toward a Silver-Alumina Model System for NO _x Reduction Catalysis. Journal of Physical Chemistry C, 2014, 118, 24556-24561.	1.5	3
117	A high pressure X-ray photoelectron spectroscopy study of oxidation and reduction of Rh(100) and Rh nanoparticles. Surface Science, 2014, 628, 153-158.	0.8	22
118	H ₂ reduction of surface oxides on Pd-based membrane model systems – The case of Pd(100) and Pd75Ag25(100). Applied Surface Science, 2014, 313, 794-803.	3.1	5
119	Intrinsic Ligand Effect Governing the Catalytic Activity of Pd Oxide Thin Films. ACS Catalysis, 2014, 4, 3330-3334.	5.5	79
120	High-Coverage Oxygen-Induced Surface Structures on Ag(111). Journal of Physical Chemistry C, 2014, 118, 15324-15331.	1.5	46
121	Direct Imaging of Atomic Scale Structure and Electronic Properties of GaAs Wurtzite and Zinc Blende Nanowire Surfaces. Nano Letters, 2013, 13, 4492-4498.	4.5	63
122	<i>In Situ</i> X-Ray Photoelectron Spectroscopy of Model Catalysts: At the Edge of the Gap. Physical Review Letters, 2013, 110, 117601.	2.9	107
123	Surface science of free standing semiconductor nanowires. Surface Science, 2013, 607, 97-105.	0.8	14
124	Facile NO _x interconversion over preoxidized Ag(111). Surface Science, 2013, 617, 167-174.	0.8	5
125	Dissociative Adsorption of Hydrogen on PdO(101) Studied by HRCLS and DFT. Journal of Physical Chemistry C, 2013, 117, 13510-13519.	1.5	25
126	Generation and oxidation of aerosol deposited PdAg nanoparticles. Surface Science, 2013, 616, 186-191.	0.8	10

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127	Interface characterization of metal-HfO ₂ -InAs gate stacks using hard x-ray photoemission spectroscopy. AIP Advances, 2013, 3, 072131.	0.6	0
128	The Rh(100)-(3 Å ⁻¹)-2O structure. Journal of Physics Condensed Matter, 2012, 24, 225006.	0.7	5
129	Mechanism for reversed photoemission core-level shifts of oxidized Ag. Physical Review B, 2012, 85, .	1.1	34
130	Oxygen interaction with the Pd(112) surface: From chemisorption to bulk oxide formation. Physical Review B, 2012, 86, .	1.1	16
131	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
132	Reversible formation of a Pd _x phase in Pd nanoparticles upon CO and O ₂ exposure. Physical Chemistry Chemical Physics, 2012, 14, 4796.	1.3	47
133	One-Dimensional Corrugation of the h-BN Monolayer on Fe(110). Langmuir, 2012, 28, 1775-1781.	1.6	66
134	Structure of the Rh ₂ O ₃ (0001) surface. Surface Science, 2012, 606, 1416-1421.	0.8	34
135	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
136	Bulk and surface characterization of In ₂ O ₃ (001) single crystals. Physical Review B, 2012, 85, .	1.1	62
137	The Active Phase of Palladium during Methane Oxidation. Journal of Physical Chemistry Letters, 2012, 3, 678-682.	2.1	183
138	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
139	Oxygen-Stabilized Rh Adatoms: OD Oxides on a Vicinal Surface. Journal of Physical Chemistry Letters, 2011, 2, 2747-2751.	2.1	5
140	Impact of Atomic Oxygen on the Structure of Graphene Formed on Ir(111) and Pt(111). Journal of Physical Chemistry C, 2011, 115, 9568-9577.	1.5	125
141	Surface structure and reactivity of Pd(100) during CO oxidation near ambient pressures. Physical Chemistry Chemical Physics, 2011, 13, 13167.	1.3	104
142	Cross-sectional scanning tunneling microscopy and spectroscopy of semimetallic ErAs nanostructures embedded in GaAs. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2011, 29, .	0.6	8
143	High-resolution core-level spectroscopy study of the ultrathin aluminum oxide film on NiAl(110). Physical Review B, 2011, 83, .	1.1	19
144	Oxidation and reduction of Pd(100) and aerosol-deposited Pd nanoparticles. Physical Review B, 2011, 83, .	1.1	79

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145	Local Density of States and Interface Effects in Semimetallic ErAs Nanoparticles Embedded in GaAs. <i>Physical Review Letters</i> , 2011, 107, 036806.	2.9	32
146	Carbonate formation on $\text{p}(4\text{-}\tilde{\text{A}})$ Stable Cation Inversion at the MgAl_2O_4	2.9	45
147	Stable Cation Inversion at the MgAl_2O_4	2.9	45
148	Surface structure and morphology of InAs(111)B with/without gold nanoparticles annealed under arsenic or atomic hydrogen flux. <i>Surface Science</i> , 2010, 604, 354-360.	0.8	21
149	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
150	Faceting and surface reconstruction of the GaP(111)B surface. <i>Surface and Interface Analysis</i> , 2010, 42, 1524-1527.	0.8	2
151	Generation of Pd Model Catalyst Nanoparticles by Spark Discharge. <i>Journal of Physical Chemistry C</i> , 2010, 114, 9257-9263.	1.5	32
152	New Flexible Toolbox for Nanomechanical Measurements with Extreme Precision and at Very High Frequencies. <i>Nano Letters</i> , 2010, 10, 3893-3898.	4.5	8
153	Reply to "Comment on "Catalytic Activity of the Rh Surface Oxide: CO Oxidation over Rh(111) under Realistic Conditions". <i>Journal of Physical Chemistry C</i> , 2010, 114, 22372-22373.	1.5	14
154	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
155	Hydrogen-Promoted Chlorination of RuO ₂ (110). <i>Journal of Physical Chemistry C</i> , 2010, 114, 10901-10909.	1.5	25
156	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
157	Dynamic response of chlorine atoms on a RuO ₂ (110) model catalyst surface. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 15358.	1.3	28
158	Lack of surface oxide layers and facile bulk oxide formation on Pd(110). <i>Physical Review B</i> , 2009, 80, .	1.1	41
159	Photoemission electron microscopy using extreme ultraviolet attosecond pulse trains. <i>Review of Scientific Instruments</i> , 2009, 80, 123703.	0.6	73
160	Direct observation of atomic scale surface relaxation in ortho twin structures in GaAs by XSTM. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 055404.	0.7	9
161	Direct comparison of the reactivity of the non-oxidic phase of Ru(0001) and the RuO ₂ phase in the CO oxidation reaction. <i>Surface Science</i> , 2009, 603, 298-303.	0.8	41
162	CO adsorption on Au(310) and Au(321): 6-Fold coordinated gold atoms. <i>Surface Science</i> , 2009, 603, 2152-2157.	0.8	61

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163	Reaction mechanism of ammonia oxidation over RuO ₂ (110): A combined theory/experiment approach. Surface Science, 2009, 603, L113-L116.	0.8	21
164	In situ structure-activity correlation experiments of the ruthenium catalyzed CO oxidation reaction. Catalysis Today, 2009, 145, 236-242.	2.2	52
165	Structure and catalytic reactivity of Rh oxides. Catalysis Today, 2009, 145, 227-235.	2.2	71
166	Influence of Oxygen Vacancies on the Properties of Ceria-Supported Gold. Journal of Physical Chemistry C, 2009, 113, 724-728.	1.5	51
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168	Impact of Oxygen Coadsorption on Intercalation of Cobalt under the h-BN Nanomesh. Nano Letters, 2009, 9, 2780-2787.	4.5	30
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