

Edvin Lundgren

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

280
papers

9,917
citations

57
h-index

85
g-index

295
ext. papers

10,528
ext. citations

5.2
avg, IF

5.63
L-index

#	Paper	IF	Citations
280	Atomic-scale structure and catalytic reactivity of the RuO ₂ (110) surface. <i>Science</i> , 2000 , 287, 1474-6	33.3	749
279	Two-dimensional oxide on Pd(111). <i>Physical Review Letters</i> , 2002 , 88, 246103	7.4	246
278	Kinetic hindrance during the initial oxidation of Pd(100) at ambient pressures. <i>Physical Review Letters</i> , 2004 , 92, 046101	7.4	196
277	Self-limited growth of a thin oxide layer on Rh(111). <i>Physical Review Letters</i> , 2004 , 92, 126102	7.4	189
276	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	3.3	189
275	The Pd(111)-O surface oxide revisited. <i>Surface Science</i> , 2003 , 541, 101-112	1.8	185
274	The Active Phase of Palladium during Methane Oxidation. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 678-82	6.4	147
273	Influence of chemical interaction at the lattice-mismatched hBN/Rh(111) and hBN/Pt(111) interfaces on the overlayer morphology. <i>Physical Review B</i> , 2007 , 75,	3.3	130
272	Structure of Ag(111)-p(4 x 4)-O: no silver oxide. <i>Physical Review Letters</i> , 2006 , 96, 146102	7.4	126
271	The thickness of native oxides on aluminum alloys and single crystals. <i>Applied Surface Science</i> , 2015 , 349, 826-832	6.7	125
270	Adsorption sites and ligand effect for CO on an alloy surface: a direct view. <i>Physical Review Letters</i> , 2001 , 87, 036103	7.4	124
269	High-energy surface X-ray diffraction for fast surface structure determination. <i>Science</i> , 2014 , 343, 758-61	33.3	122
268	One-dimensional PtO ₂ at Pt steps: formation and reaction with CO. <i>Physical Review Letters</i> , 2005 , 95, 256102	7.4	122
267	Stable deacon process for HCl oxidation over RuO ₂ . <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 2131-4	16.4	113
266	Intermixing in the Na on Al(111) system. <i>Physical Review Letters</i> , 1992 , 68, 94-97	7.4	111
265	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	3.8	108
264	Alkali metal adsorption on Al(111). <i>Surface Science</i> , 1993 , 289, 307-334	1.8	107

263	Surface oxides on close-packed surfaces of late transition metals. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, R481-R499	1.8	101
262	Structure of a thin oxide film on Rh(100). <i>Physical Review B</i> , 2005 , 71,	3.3	101
261	Surface structure and reactivity of Pd(100) during CO oxidation near ambient pressures. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 13167-71	3.6	100
260	Thin films of Co on Pt(111): Strain relaxation and growth. <i>Physical Review B</i> , 2000 , 62, 2843-2851	3.3	97
259	In situ x-ray photoelectron spectroscopy of model catalysts: at the edge of the gap. <i>Physical Review Letters</i> , 2013 , 110, 117601	7.4	96
258	Surface x-ray diffraction from Co/Pt(111) ultrathin films and alloys: Structure and magnetism. <i>Physical Review B</i> , 1997 , 56, 9848-9857	3.3	96
257	The surface oxide: A LEED, DFT and STM study. <i>Surface Science</i> , 2007 , 601, 1574-1581	1.8	90
256	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, 917-20	16.4	88
255	A single h-BN layer on Pt(1 1 1). <i>Surface Science</i> , 2008 , 602, 1722-1726	1.8	86
254	Ru(0001) model catalyst under oxidizing and reducing reaction conditions: in-situ high-pressure surface X-ray diffraction study. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 21825-30	3.4	85
253	Sensitivity of catalysis to surface structure: The example of CO oxidation on Rh under realistic conditions. <i>Physical Review B</i> , 2008 , 78,	3.3	84
252	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	24	84
251	Chemistry of Supported Palladium Nanoparticles during Methane Oxidation. <i>ACS Catalysis</i> , 2015 , 5, 2481-2489	3.8	83
250	Complex Interaction of Hydrogen with the RuO ₂ (110) Surface. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 5363-5373	3.8	82
249	On the adsorption sites for CO on the Rh(111) single crystal surface. <i>Surface Science</i> , 1997 , 371, 381-389	1.8	81
248	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	3.8	80
247	Direct imaging of the atomic structure inside a nanowire by scanning tunnelling microscopy. <i>Nature Materials</i> , 2004 , 3, 519-23	27	75
246	Oxidation and reduction of Pd(100) and aerosol-deposited Pd nanoparticles. <i>Physical Review B</i> , 2011 , 83,	3.3	74

245	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	1.8	74
244	Oxygen-induced step bunching and faceting of Rh(553): Experiment and ab initio calculations. <i>Physical Review B</i> , 2006 , 74,	3.3	70
243	Electronic and structural differences between wurtzite and zinc blende InAs nanowire surfaces: experiment and theory. <i>ACS Nano</i> , 2014 , 8, 12346-55	16.7	69
242	Structure and catalytic reactivity of Rh oxides. <i>Catalysis Today</i> , 2009 , 145, 227-235	5.3	67
241	Oxidation of Pd(553): From ultrahigh vacuum to atmospheric pressure. <i>Physical Review B</i> , 2007 , 76,	3.3	66
240	On the origin of the Ru-3d5/2 satellite feature from RuO ₂ (α). <i>Surface Science</i> , 2002 , 504, L196-L200	1.8	66
239	Three surface-shifted core levels on Be(0001). <i>Physical Review Letters</i> , 1993 , 71, 2453-2456	7.4	66
238	X-ray investigation of subsurface interstitial oxygen at Nb/oxide interfaces. <i>Applied Physics Letters</i> , 2008 , 92, 101911	3.4	65
237	Structure of Al(111)-($\sqrt{3} \times \sqrt{3}$)R30 degrees-Na: A LEED study. <i>Physical Review B</i> , 1994 , 50, 4718-4724	3.4	65
236	Visualization of atomic processes on ruthenium dioxide using scanning tunneling microscopy. <i>ChemPhysChem</i> , 2004 , 5, 167-74	3.2	63
235	Intrinsic Ligand Effect Governing the Catalytic Activity of Pd Oxide Thin Films. <i>ACS Catalysis</i> , 2014 , 4, 3330-3334	13.1	62
234	Photoemission electron microscopy using extreme ultraviolet attosecond pulse trains. <i>Review of Scientific Instruments</i> , 2009 , 80, 123703	1.7	62
233	Reaction Mechanism of the Oxidation of HCl over RuO ₂ (110). <i>Journal of Physical Chemistry C</i> , 2008 , 112, 9966-9969	3.8	61
232	One-dimensional corrugation of the h-BN monolayer on Fe(110). <i>Langmuir</i> , 2012 , 28, 1775-81	4	60
231	Experimental and simulated STM images of stoichiometric and partially reduced RuO ₂ (α) surfaces including adsorbates. <i>Surface Science</i> , 2002 , 515, 143-156	1.8	60
230	Enhanced surface vibrations and reconstruction of the Al(111) surface induced by Rb adsorption. <i>Physical Review Letters</i> , 1994 , 72, 3370-3373	7.4	60
229	Adsorption and Activation of CO on Co ₃ O ₄ (111) Thin Films. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 16688-16699	3.8	59
228	Ordering of the nanoscale step morphology as a mechanism for droplet self-propulsion. <i>Nano Letters</i> , 2009 , 9, 2710-4	11.5	59

227	The surface oxide as a source of oxygen on Rh(1 1 1). <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005 , 144-147, 367-372	1.7	59
226	Oxygen-induced surface phase transformation of Pd(1 1 1): sticking, adsorption and desorption kinetics. <i>Surface Science</i> , 2001 , 482-485, 237-242	1.8	59
225	Direct imaging of atomic scale structure and electronic properties of GaAs wurtzite and zinc blende nanowire surfaces. <i>Nano Letters</i> , 2013 , 13, 4492-8	11.5	58
224	CO Adsorption on a Au/CeO ₂ (111) Model Catalyst. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 6900-6906	3.8	58
223	CO Adsorption on Clean and Oxidized Pd(111). <i>Journal of Physical Chemistry C</i> , 2014 , 118, 1118-1128	3.8	57
222	Bulk and surface characterization of In ₂ O ₃ (001) single crystals. <i>Physical Review B</i> , 2012 , 85,	3.3	54
221	CO adsorption on Au(310) and Au(321): 6-Fold coordinated gold atoms. <i>Surface Science</i> , 2009 , 603, 2152-2157	3.5	54
220	Direct atomic scale imaging of III-V nanowire surfaces. <i>Nano Letters</i> , 2008 , 8, 3978-82	11.5	54
219	Spectroscopic characterization of catalytically active surface sites of a metallic oxide. <i>Chemical Physics Letters</i> , 2001 , 342, 467-472	2.5	53
218	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, 11807-8	16.4	53
217	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	3.3	53
216	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	3.8	52
215	Influence of Oxygen Vacancies on the Properties of Ceria-Supported Gold. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 724-728	3.8	50
214	GaAs/AlGaAs nanowire heterostructures studied by scanning tunneling microscopy. <i>Nano Letters</i> , 2007 , 7, 2859-64	11.5	50
213	In situ structure-activity correlation experiments of the ruthenium catalyzed CO oxidation reaction. <i>Catalysis Today</i> , 2009 , 145, 236-242	5.3	49
212	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	7.3	49
211	The Role of Oxides in Catalytic CO Oxidation over Rhodium and Palladium. <i>ACS Catalysis</i> , 2018 , 8, 4438-4445	4.5	48
210	A surface x-ray study of the structure and morphology of the oxidized Pd(001) surface. <i>Journal of Chemical Physics</i> , 2005 , 122, 44706	3.9	46

209	Formation and structural analysis of a surface alloy: Al(111)-(2 x 2)-Na. <i>Physical Review Letters</i> , 1995 , 74, 1617-1620	7.4	46
208	Reversible formation of a PdC(x) phase in Pd nanoparticles upon CO and O ₂ exposure. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 4796-801	3.6	45
207	Step-orientation-dependent oxidation: from 1D to 2D oxides. <i>Physical Review Letters</i> , 2008 , 101, 266104	7.4	44
206	Stable cation inversion at the MgAl ₂ O ₄ (100) surface. <i>Physical Review Letters</i> , 2011 , 107, 036102	7.4	42
205	Structure and reactivity of a model catalyst alloy under realistic conditions. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 184018	1.8	42
204	Surface and subsurface alloy formation of vanadium on Pd(111). <i>Surface Science</i> , 2000 , 463, 199-210	1.8	42
203	Observation of a low-binding-energy peak in the 2p core-level photoemission from oxidized Al(111). <i>Physical Review B</i> , 1993 , 47, 13063-13066	3.3	42
202	High-coverage oxygen structures on Rh(111): adsorbate repulsion and site preference is not enough. <i>Physical Review Letters</i> , 2004 , 93, 266103	7.4	41
201	Steps Control the Dissociation of CO on Cu(100). <i>Journal of the American Chemical Society</i> , 2018 , 140, 12974-12979	16.4	41
200	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	17.4	39
199	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	13.1	38
198	Direct comparison of the reactivity of the non-oxidic phase of Ru(0 0 0 1) and the RuO ₂ phase in the CO oxidation reaction. <i>Surface Science</i> , 2009 , 603, 298-303	1.8	38
197	Magnetic anisotropy of ultrathin cobalt films on Pt(111) investigated with x-ray diffraction: Effect of atomic mixing at the interface. <i>Physical Review B</i> , 2002 , 65,	3.3	37
196	Transient Structures of PdO during CO Oxidation over Pd(100). <i>Journal of Physical Chemistry C</i> , 2015 , 119, 15469-15476	3.8	35
195	Surface chemistry, structure, and electronic properties from microns to the atomic scale of axially doped semiconductor nanowires. <i>ACS Nano</i> , 2012 , 6, 9679-89	16.7	35
194	Lack of surface oxide layers and facile bulk oxide formation on Pd(110). <i>Physical Review B</i> , 2009 , 80,	3.3	34
193	Interaction of H ₂ , CO and O ₂ with a vanadium (111) surface. <i>Surface Science</i> , 2000 , 447, 245-258	1.8	34
192	An atomic-scale study of the Co induced dendrite formation on Pt(111). <i>Surface Science</i> , 1999 , 423, 357-363	3.3	34

191	High-Coverage Oxygen-Induced Surface Structures on Ag(111). <i>Journal of Physical Chemistry C</i> , 2014 , 118, 15324-15331	3.8	33
190	Unusual process of water formation on RuO ₂ (110) by hydrogen exposure at room temperature. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 14007-10	3.4	33
189	Novel in Situ Techniques for Studies of Model Catalysts. <i>Accounts of Chemical Research</i> , 2017 , 50, 2326-2343	3.3	32
188	Improving InAs nanotree growth with composition-controlled AuIn nanoparticles. <i>Nanotechnology</i> , 2006 , 17, 1344-1350	3.4	32
187	In Situ Investigations of Chemical Reactions on Surfaces by X-Ray Diffraction at Atmospheric Pressures. <i>MRS Bulletin</i> , 2007 , 32, 1010-1014	3.2	32
186	Identification of step atoms by high resolution core level spectroscopy. <i>Physical Review Letters</i> , 2003 , 91, 056102	7.4	32
185	Layer dependent core level binding energy shifts: Na, K, Rb and Cs on Al(111). <i>Surface Science</i> , 1993 , 281, 83-90	1.8	32
184	Understanding the Intrinsic Surface Reactivity of Single-Layer and Multilayer PdO(101) on Pd(100). <i>ACS Catalysis</i> , 2018 , 8, 8553-8567	13.1	31
183	Growth and Reactivity of Titanium Oxide Ultrathin Films on Ni(110). <i>Journal of Physical Chemistry C</i> , 2007 , 111, 7704-7710	3.8	31
182	The influence of lysine on InP(001) surface ordering and nanowire growth. <i>Nanotechnology</i> , 2005 , 16, 2354-2359	3.4	31
181	Spatially and temporally resolved gas distributions around heterogeneous catalysts using infrared planar laser-induced fluorescence. <i>Nature Communications</i> , 2015 , 6, 7076	17.4	30
180	Strain Dependent Light-off Temperature in Catalysis Revealed by Planar Laser-Induced Fluorescence. <i>ACS Catalysis</i> , 2017 , 7, 110-114	13.1	30
179	Surface composition of clean and oxidized Pd ₇₅ Ag ₂₅ (100) from photoelectron spectroscopy and density functional theory calculations. <i>Surface Science</i> , 2012 , 606, 1777-1782	1.8	30
178	An in situ set up for the detection of CO ₂ from catalytic CO oxidation by using planar laser-induced fluorescence. <i>Review of Scientific Instruments</i> , 2012 , 83, 053104	1.7	30
177	Interlayer Diffusion of Adatoms: A Scanning-Tunneling Microscopy Study. <i>Physical Review Letters</i> , 1999 , 82, 5068-5071	7.4	30
176	Surface x-ray-diffraction study of the Rh(111)+(2x2)BCO structure. <i>Physical Review B</i> , 1999 , 59, 5876-5880	5.3	30
175	Mechanism for reversed photoemission core-level shifts of oxidized Ag. <i>Physical Review B</i> , 2012 , 85,	3.3	29
174	Growth of Ultrathin Iron Oxide Films on Ag(100). <i>Journal of Physical Chemistry C</i> , 2015 , 119, 2572-2582	3.8	28

173	Generation of Pd Model Catalyst Nanoparticles by Spark Discharge. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 9257-9263	3.8	28
172	Impact of oxygen coadsorption on intercalation of cobalt under the h-BN nanomesh. <i>Nano Letters</i> , 2009 , 9, 2780-7	11.5	28
171	Stressing Pd atoms: Initial oxidation of the Pd(110) surface. <i>Surface Science</i> , 2008 , 602, 2440-2447	1.8	28
170	Structure of the Rh ₂ O ₃ (0001) surface. <i>Surface Science</i> , 2012 , 606, 1416-1421	1.8	27
169	Dynamic response of chlorine atoms on a RuO ₂ (110) model catalyst surface. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 15358-66	3.6	27
168	Kinetics of the reduction of the Rh(111) surface oxide: linking spectroscopy and atomic-scale information. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 9966-75	3.4	27
167	Determination of scaling exponents in Ag(100) homoepitaxy with x-ray diffraction profiles. <i>Physical Review B</i> , 1998 , 57, 6325-6328	3.3	27
166	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	1.8	26
165	Segregation and ordering at Fe _{1-x} Al _x (100) surfaces: a model case for binary alloys. <i>Surface Science</i> , 2001 , 474, 81-97	1.8	25
164	Surface core-level shift of the Mo(110) surface. <i>Physical Review B</i> , 1993 , 48, 5525-5529	3.3	25
163	Potential-Induced Pitting Corrosion of an IrO ₂ (110)-RuO ₂ (110)/Ru(0001) Model Electrode under Oxygen Evolution Reaction Conditions. <i>ACS Catalysis</i> , 2019 , 9, 6530-6539	13.1	24
162	Local density of states and interface effects in semimetallic ErAs nanoparticles embedded in GaAs. <i>Physical Review Letters</i> , 2011 , 107, 036806	7.4	24
161	2D and 3D imaging of the gas phase close to an operating model catalyst by planar laser induced fluorescence. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 453002	1.8	23
160	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	13.1	23
159	Hydrogen-Promoted Chlorination of RuO ₂ (110). <i>Journal of Physical Chemistry C</i> , 2010 , 114, 10901-10909	3.8	23
158	Atomic scale surface structure and morphology of InAs nanowire crystal superlattices: the effect of epitaxial overgrowth. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 5748-55	9.5	22
157	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	13.1	22
156	In-situ synchrotron GIXRD study of passive film evolution on duplex stainless steel in corrosive environment. <i>Corrosion Science</i> , 2018 , 141, 18-21	6.8	22

155	Effects of non-local exchange on core level shifts for gas-phase and adsorbed molecules. <i>Journal of Chemical Physics</i> , 2014 , 141, 034706	3.9	22
154	Cross-sectional scanning tunneling microscopy studies of novel III-V semiconductor structures. <i>Progress in Surface Science</i> , 2005 , 80, 1-25	6.6	22
153	CO dissociation on Mo(110) studied by high-resolution core-level spectroscopy. <i>Surface Science</i> , 2001 , 492, 185-194	1.8	22
152	Complex surface reconstructions solved by ab initio molecular dynamics. <i>Applied Physics A: Materials Science and Processing</i> , 2003 , 76, 701-710	2.6	21
151	Geometry of the valence transition induced surface reconstruction of Sm(0001). <i>Physical Review Letters</i> , 2002 , 88, 136102	7.4	21
150	THE SURFACE STRUCTURES OF Pd(100)-(1 \times 1) AND c(2 \times 2)-K. <i>Surface Review and Letters</i> , 1996 , 03, 1339-1343	1	21
149	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	1.8	20
148	Dissociative Adsorption of Hydrogen on PdO(101) Studied by HRCLS and DFT. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 13510-13519	3.8	20
147	Reaction mechanism of ammonia oxidation over RuO ₂ (110): A combined theory/experiment approach. <i>Surface Science</i> , 2009 , 603, L113-L116	1.8	20
146	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	1.8	20
145	Step enhanced dehydrogenation of ethanol on Rh. <i>Surface Science</i> , 2008 , 602, 3057-3063	1.8	20
144	High-resolution core-level spectroscopy study of the ultrathin aluminum oxide film on NiAl(110). <i>Physical Review B</i> , 2011 , 83,	3.3	19
143	Carbonate formation on p(4 \times 4)-O/Ag(111). <i>Physical Review B</i> , 2011 , 84,	3.3	19
142	Ultrathin Films of Co on Pt(111): an STM View. <i>Physica Status Solidi A</i> , 2001 , 187, 97-112		19
141	Anodization of Al(100), Al(111) and Al Alloy 6063 studied in situ with X-ray reflectivity and electrochemical impedance spectroscopy. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 799, 556-562	4.1	18
140	Nanowire growth and dopants studied by cross-sectional scanning tunnelling microscopy. <i>Nanotechnology</i> , 2006 , 17, S362-S368	3.4	18
139	Defect structure of Ga _{1-x} Mn _x As: A cross-sectional scanning tunneling microscopy study. <i>Physical Review B</i> , 2004 , 70,	3.3	18
138	Density of configurational states from first-principles calculations: the phase diagram of Al-Na surface alloys. <i>ChemPhysChem</i> , 2005 , 6, 1923-8	3.2	18

137	Comparison of AP-XPS and PLIF Measurements During CO Oxidation Over Pd Single Crystals. <i>Topics in Catalysis</i> , 2016 , 59, 478-486	2.3	18
136	Adsorption of NO on Fe ₃ O ₄ (111). <i>Chemical Physics Letters</i> , 2018 , 693, 84-87	2.5	17
135	Reduction behavior of oxidized Pd(100) and Pd ₇₅ Ag ₂₅ (100) surfaces using CO. <i>Surface Science</i> , 2014 , 621, 31-39	1.8	17
134	Au wetting and nanoparticle stability on GaAs(111)B. <i>Applied Physics Letters</i> , 2006 , 89, 251912	3.4	17
133	Co on Mo(1 1 0) studied by scanning tunneling microscopy. <i>Surface Science</i> , 2004 , 557, 109-118	1.8	17
132	Core-level shifts on Be(101-bar0). <i>Physical Review B</i> , 1994 , 49, 17460-17463	3.3	17
131	Polarisation-dependent X-ray absorption in high- and low-Tc Bi ₂ Sr ₂ Ca _n Cu _n O _{4+2n} superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 1993 , 214, 119-126	1.3	17
130	Simultaneous Imaging of Gas Phase over and Surface Reflectance of a Pd(100) Single Crystal during CO Oxidation. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 23511-23519	3.8	16
129	Reversible modification of the structural and electronic properties of a boron nitride monolayer by CO intercalation. <i>ChemPhysChem</i> , 2015 , 16, 923-7	3.2	16
128	Structure of the SnO ₂ (110)-(4̄1) Surface. <i>Physical Review Letters</i> , 2017 , 119, 096102	7.4	16
127	Na and K on Al(100) studied by low-energy electron diffraction and high-resolution core-level spectroscopy. <i>Surface Science</i> , 1997 , 370, 311-323	1.8	16
126	Surface core level shift observed on NiAl(1 1 0). <i>Surface Science</i> , 2003 , 529, L263-L268	1.8	16
125	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	16.4	16
124	Integration of electrochemical and synchrotron-based X-ray techniques for in-situ investigation of aluminum anodization. <i>Electrochimica Acta</i> , 2017 , 241, 299-308	6.7	15
123	Generation of surface steps on Pt(977) induced by the catalytic oxidation of CO. <i>Journal of Catalysis</i> , 2014 , 309, 33-37	7.3	15
122	A convenient setup for laser-induced fluorescence imaging of both CO and CO ₂ during catalytic CO oxidation. <i>Applied Physics B: Lasers and Optics</i> , 2017 , 123, 1	1.9	15
121	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	4	15
120	High-energy x-ray diffraction from surfaces and nanoparticles. <i>Physical Review B</i> , 2017 , 96,	3.3	15

119	Thermal Stability of Single-Crystalline IrO ₂ (110) Layers: Spectroscopic and Adsorption Studies. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 15324-15336	3.8	15
118	Electronic Structure Changes Due to Crystal Phase Switching at the Atomic Scale Limit. <i>ACS Nano</i> , 2017 , 11, 10519-10528	16.7	14
117	Redefining passivity breakdown of super duplex stainless steel by electrochemical operando synchrotron near surface X-ray analyses. <i>Npj Materials Degradation</i> , 2019 , 3,	5.7	14
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