

# Andreas Stierle

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/2539856/andreas-stierle-publications-by-citations.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

156  
papers

3,916  
citations

34  
h-index

56  
g-index

170  
ext. papers

4,299  
ext. citations

5.7  
avg, IF

4.99  
L-index

#	Paper	IF	Citations
156	Initial corrosion observed on the atomic scale. <i>Nature</i> , <b>2006</b> , 439, 707-10	50.4	202
155	Kinetic hindrance during the initial oxidation of Pd(100) at ambient pressures. <i>Physical Review Letters</i> , <b>2004</b> , 92, 046101	7.4	196
154	Shape changes of supported Rh nanoparticles during oxidation and reduction cycles. <i>Science</i> , <b>2008</b> , 321, 1654-8	33.3	194
153	X-ray diffraction study of the ultrathin Al <sub>2</sub> O <sub>3</sub> layer on NiAl <sub>110</sub> . <i>Science</i> , <b>2004</b> , 303, 1652-6	33.3	146
152	Structure of Ag(111)-p(4 × 4)-O: no silver oxide. <i>Physical Review Letters</i> , <b>2006</b> , 96, 146102	7.4	126
151	High-energy surface X-ray diffraction for fast surface structure determination. <i>Science</i> , <b>2014</b> , 343, 758-61	33.3	122
150	Organically linked iron oxide nanoparticle supercrystals with exceptional isotropic mechanical properties. <i>Nature Materials</i> , <b>2016</b> , 15, 522-8	27	103
149	Structure of a thin oxide film on Rh(100). <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	101
148	The 2 × 1 reconstruction of the rutile TiO <sub>2</sub> (011) surface: A combined density functional theory, X-ray diffraction, and scanning tunneling microscopy study. <i>Surface Science</i> , <b>2009</b> , 603, 138-144	1.8	96
147	X-ray-diffraction characterization of Pt(111) surface nanopatterning induced by C <sub>60</sub> adsorption. <i>Nature Materials</i> , <b>2005</b> , 4, 688-92	27	81
146	Oxidation of Ir(111): From O(1 × 1) Trilayer to Bulk Oxide Formation. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 11946-11953	3.8	75
145	Tensile testing of ultrathin polycrystalline films: A synchrotron-based technique. <i>Review of Scientific Instruments</i> , <b>2004</b> , 75, 1110-1119	1.7	71
144	X-ray diffraction studies of potassium dihydrogen phosphate (KDP) crystal surfaces. <i>Journal of Crystal Growth</i> , <b>1999</b> , 205, 202-214	1.6	69
143	Oxidation of Pd(553): From ultrahigh vacuum to atmospheric pressure. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	66
142	X-ray investigation of subsurface interstitial oxygen at Nb/oxide interfaces. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 101911	3.4	65
141	Dedicated Max-Planck beamline for the in situ investigation of interfaces and thin films. <i>Review of Scientific Instruments</i> , <b>2004</b> , 75, 5302-5307	1.7	62
140	Surface termination of hematite at environmental oxygen pressures: Experimental surface phase diagram. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	58

139	Combinatorial high-energy x-ray microbeam study of the size-dependent oxidation of Pd nanoparticles on MgO(100). <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	48
138	Novel In Situ Probes for Nanocatalysis. <i>MRS Bulletin</i> , <b>2007</b> , 32, 1001-1009	3.2	48
137	Surface X-ray diffraction study on the initial oxidation of NiAl(100). <i>Surface Science</i> , <b>2000</b> , 467, 85-97	1.8	48
136	In situ x-ray diffraction study of the initial dealloying and passivation of Cu <sub>3</sub> Au(111) during anodic dissolution. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	46
135	A surface x-ray study of the structure and morphology of the oxidized Pd001 surface. <i>Journal of Chemical Physics</i> , <b>2005</b> , 122, 44706	3.9	46
134	DESY NanoLab. <i>Journal of Large-scale Research Facilities JLSRF</i> , 2,		46
133	Reversible shape changes of Pd nanoparticles on MgO(100). <i>Nano Letters</i> , <b>2011</b> , 11, 4697-700	11.5	45
132	Polar-discontinuity-retaining A-site intermixing and vacancies at SrTiO <sub>3</sub> /LaAlO <sub>3</sub> interfaces. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	44
131	Atomic structure and crystalline order of graphene-supported ir nanoparticle lattices. <i>Physical Review Letters</i> , <b>2013</b> , 110, 065503	7.4	43
130	Epitaxial oxide formation on Cr(110) films. <i>Surface Science</i> , <b>1995</b> , 327, 9-16	1.8	43
129	Stable cation inversion at the MgAl <sub>2</sub> O <sub>4</sub> (100) surface. <i>Physical Review Letters</i> , <b>2011</b> , 107, 036102	7.4	42
128	Adsorption of Formic Acid on the Fe <sub>3</sub> O <sub>4</sub> (001) Surface. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 20459-20465	3.8	40
127	In situ oxidation study of MgO(100) supported Pd nanoparticles. <i>Surface Science</i> , <b>2006</b> , 600, 2860-2867	1.8	40
126	Atmospheric pressure oxidation of Pt(111). <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 184013	1.8	37
125	Tracking the shape-dependent sintering of platinum-rhodium model catalysts under operando conditions. <i>Nature Communications</i> , <b>2016</b> , 7, 10964	17.4	37
124	Transient Structures of PdO during CO Oxidation over Pd(100). <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 15469-15476	3.8	35
123	Lack of surface oxide layers and facile bulk oxide formation on Pd(110). <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	34
122	High resolution x-ray characterization of Co films on Al <sub>2</sub> O <sub>3</sub> . <i>Journal of Applied Physics</i> , <b>1993</b> , 73, 4808-4814	1.4	31

121	Atomic structure and stability of magnetite Fe <sub>3</sub> O <sub>4</sub> (001): An X-ray view. <i>Surface Science</i> , <b>2016</b> , 653, 76-81	1.8	30
120	The influence of chloride on the initial anodic dissolution of Cu <sub>3</sub> Au(111). <i>Electrochemistry Communications</i> , <b>2007</b> , 9, 1639-1642	5.1	29
119	Epitaxial growth of Co films and Co/Cu superlattices on sapphire substrates with and without buffer layers. <i>Journal of Crystal Growth</i> , <b>1993</b> , 127, 682-685	1.6	28
118	Correlating Nanostructure, Optical and Electronic Properties of Nanogranular Silver Layers during Polymer-Template-Assisted Sputter Deposition. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 29416-29426	9.5	27
117	Combined STM, LEED and DFT study of Ag(100) exposed to oxygen near atmospheric pressures. <i>Surface Science</i> , <b>2006</b> , 600, 617-624	1.8	27
116	Optimization of sputtered Co films. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1991</b> , 102, 223-232	2.8	27
115	Uniaxial magnetic anisotropy of Co films on sapphire. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1993</b> , 118, 57-64	2.8	27
114	Quantitative surface structure determination using in situ high-energy SXRD: Surface oxide formation on Pd(100) during catalytic CO oxidation. <i>Surface Science</i> , <b>2014</b> , 630, 229-235	1.8	26
113	Structure and defects of epitaxial Cr <sub>2</sub> O <sub>3</sub> (0001) overlayers on Cr(110). <i>Physical Review B</i> , <b>1998</b> , 58, 5062-5069	5.0	26
112	Structural investigation of the dynamics of the NiO(111) surface by GIXS. <i>Surface Science</i> , <b>1999</b> , 433-435, 761-764	1.8	26
111	Kinetics of Cr <sub>2</sub> O <sub>3</sub> growth during the oxidation of Cr(110). <i>Europhysics Letters</i> , <b>1997</b> , 37, 365-370	1.6	25
110	Observation of bulk forbidden defects during the oxidation of NiAl(110). <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	25
109	Potential-Induced Pitting Corrosion of an IrO <sub>2</sub> (110)-RuO <sub>2</sub> (110)/Ru(0001) Model Electrode under Oxygen Evolution Reaction Conditions. <i>ACS Catalysis</i> , <b>2019</b> , 9, 6530-6539	13.1	24
108	A New Synthesis Approach for Carbon Nitrides: Poly(triazine imide) and Its Photocatalytic Properties. <i>ACS Omega</i> , <b>2018</b> , 3, 3892-3900	3.9	24
107	In situ X-ray analysis of solid/electrolyte interfaces: electrodeposition of Cu and Co on Si(111):H and GaAs(001) and corrosion of Cu <sub>3</sub> Au(111). <i>Surface Science</i> , <b>2004</b> , 573, 67-79	1.8	23
106	In Situ Oxidation Study of Pt Nanoparticles on MgO(001). <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 19953-19966	5.3	23
105	Oxidation and Reduction of Ultrathin Nanocrystalline Ru Films on Silicon: Model System for Ru-Capped Extreme Ultraviolet Lithography Optics. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 10988-10992	2.8	22
104	Atomic structure of Pt nanoclusters supported by graphene/Ir(111) and reversible transformation under CO exposure. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	20

103	Atomic structure and composition of the yttria-stabilized zirconia (111) surface. <i>Surface Science</i> , <b>2013</b> , 612, 69-76	1.8	20
102	Growth of fcc(111) on bcc(110): new type of epitaxial transition observed for Pd on Cr. <i>Surface Science</i> , <b>1998</b> , 398, 379-385	1.8	20
101	Identification of a Catalytically Highly Active Surface Phase for CO Oxidation over PtRh Nanoparticles under Operando Reaction Conditions. <i>Physical Review Letters</i> , <b>2018</b> , 120, 126101	7.4	19
100	In situ oxidation study of Pd-Rh nanoparticles on MgAl <sub>2</sub> O <sub>4</sub> (001). <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 13866-74	3.6	19
99	High-resolution core-level spectroscopy study of the ultrathin aluminum oxide film on NiAl(110). <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	19
98	Stranski-Krastanov like oxide growth on Ag(1 1 1) at atmospheric oxygen pressures. <i>Surface Science</i> , <b>2007</b> , 601, L19-L23	1.8	19
97	Structure and stability of Gd-doped CeO <sub>2</sub> thin films on yttria-stabilized zirconia. <i>Thin Solid Films</i> , <b>2016</b> , 603, 56-61	2.2	18
96	Model Catalytic Studies of Novel Liquid Organic Hydrogen Carriers: Indole, Indoline and Octahydroindole on Pt(111). <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 14806-14818	4.8	18
95	Trace element analysis on Si wafer surfaces by TXRF at the ID32 ESRF undulator beamline. <i>Journal of Synchrotron Radiation</i> , <b>1998</b> , 5, 1064-6	2.4	18
94	X-ray-Based Techniques to Study the Nano-Bio Interface. <i>ACS Nano</i> , <b>2021</b> , 15, 3754-3807	16.7	18
93	Stability of Surface and Bulk Oxides on Pd(111) Revisited by in Situ X-ray Diffraction. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 21459-21464	3.8	17
92	Carbon incorporation and deactivation of MgO(0 0 1) supported Pd nanoparticles during CO oxidation. <i>Catalysis Today</i> , <b>2009</b> , 145, 243-250	5.3	17
91	Excitation of an X-ray standing wave in a SmBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> thin film. <i>Solid State Communications</i> , <b>1997</b> , 104, 347-350	1.6	17
90	The NiO(111)-(1 $\bar{1}$ ) surface. <i>Surface Science</i> , <b>1998</b> , 402-404, 757-760	1.8	17
89	Structural properties of high-quality sputtered Fe films on Al <sub>2</sub> O <sub>3</sub> (1120) and MgO(001) substrates. <i>Applied Physics A: Solids and Surfaces</i> , <b>1994</b> , 59, 659-665		17
88	Oxidation induced roughening during Cr <sub>2</sub> O <sub>3</sub> (0001) growth on Cr(110). <i>Surface Science</i> , <b>1997</b> , 385, 167-177	1.7	16
87	Surface core level shift observed on NiAl(1 1 0). <i>Surface Science</i> , <b>2003</b> , 529, L263-L268	1.8	16
86	Oxidation of epitaxial Fe films monitored by x-ray reflectivity. <i>Journal of Materials Research</i> , <b>1994</b> , 9, 884-890	2.5	16

85	In Situ Studies of the Electrochemical Reduction of a Supported Ultrathin Single-Crystalline RuO <sub>2</sub> (110) Layer in an Acidic Environment. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 3979-3987	3.8	15
84	Modulating the Mechanical Properties of Supercrystalline Nanocomposite Materials via Solvent-Ligand Interactions. <i>Langmuir</i> , <b>2019</b> , 35, 13893-13903	4	15
83	Materials science. Tracking corrosion cracking. <i>Science</i> , <b>2008</b> , 321, 349-50	33.3	15
82	Stability and stoichiometry of (polar) oxide surfaces for varying oxygen chemical potential. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 184014	1.8	15
81	High-energy x-ray diffraction from surfaces and nanoparticles. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	15
80	Adsorption of Acetone on Rutile TiO <sub>2</sub> : A DFT and FTIRS Study. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 19481-19490	3.8	15
79	High-Performance n- and p-Type Field-Effect Transistors Based on Hybridly Surface-Passivated Colloidal PbS Nanosheets. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1706815	15.6	14
78	Oxygen interaction with the Pd(112) surface: From chemisorption to bulk oxide formation. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	14
77	In situ x-ray study of the $\beta$ to $\alpha$ -Al <sub>2</sub> O <sub>3</sub> phase transformation during atmospheric pressure oxidation of NiAl(110). <i>Journal of Materials Research</i> , <b>2006</b> , 21, 3047-3057	2.5	14
76	Crystalline Pr <sub>2</sub> O <sub>3</sub> monolayers on Si(111). <i>Applied Physics Letters</i> , <b>2007</b> , 90, 062906	3.4	14
75	Coherent X-ray Imaging of CO-Adsorption-Induced Structural Changes in Pt Nanoparticles: Implications for Catalysis. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 4818-4824	5.6	13
74	High-resolution x-ray scattering study of platinum thin films on sapphire. <i>Journal of Physics Condensed Matter</i> , <b>1998</b> , 10, 717-730	1.8	13
73	Understanding electrochemical switchability of perovskite-type exsolution catalysts. <i>Nature Communications</i> , <b>2020</b> , 11, 4801	17.4	13
72	Gas-Induced Segregation in Pt-Rh Alloy Nanoparticles Observed by In Situ Bragg Coherent Diffraction Imaging. <i>Physical Review Letters</i> , <b>2019</b> , 123, 246001	7.4	13
71	Structure and Oxidation Behavior of Nickel Nanoparticles Supported by YSZ(111). <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 2798-2806	3.8	12
70	A versatile nanoreactor for complementary in situ X-ray and electron microscopy studies in catalysis and materials science. <i>Journal of Synchrotron Radiation</i> , <b>2019</b> , 26, 1769-1781	2.4	12
69	Elucidating the Defect-Induced Changes in the Photocatalytic Activity of TiO <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 12539-12547	3.8	12
68	Role of Precursor Carbides for Graphene Growth on Ni(111). <i>Scientific Reports</i> , <b>2018</b> , 8, 2662	4.9	11

67	Oxidation of NiAl(1 0 0) studied with surface sensitive X-ray diffraction. <i>Physica B: Condensed Matter</i> , <b>2000</b> , 283, 208-211	2.8	10
66	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> , <b>2019</b> , 166, C3336-C3340	3.9	9
65	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> , <b>2020</b> , 174, 108841	6.8	9
64	Carboxylic acid induced near-surface restructuring of a magnetite surface. <i>Communications Chemistry</i> , <b>2019</b> , 2,	6.3	9
63	Oxidation of palladium: from single crystal surfaces towards nanoparticles. <i>International Journal of Materials Research</i> , <b>2009</b> , 100, 1308-1317	0.5	9
62	Oxidation of ultrathin Fe(110) layers on Cr(110). <i>Surface Science</i> , <b>1997</b> , 385, 310-317	1.8	9
61	Niobium near-surface composition during nitrogen infusion relevant for superconducting radio-frequency cavities. <i>Physical Review Accelerators and Beams</i> , <b>2019</b> , 22,	1.8	9
60	Operando X-ray Investigation of Electrode/Electrolyte Interfaces in Model Solid Oxide Fuel Cells. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 3727-3733	9.6	9
59	The influence of incommensurability on the long-range periodicity of the Pd(100)-(5 $\times$ 5)R27 $\times$ PdO(101). <i>Surface Science</i> , <b>2017</b> , 660, 1-8	1.8	8
58	Monitoring the Interaction of CO with Graphene Supported Ir Clusters by Vibrational Spectroscopy and Density Functional Theory Calculations. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 4281-4289	3.8	8
57	Real time observation of ultrathin epitaxial oxide growth during alloy oxidation. <i>New Journal of Physics</i> , <b>2007</b> , 9, 331-331	2.9	8
56	Correlation between stoichiometry and surface structure of the polar MgAl <sub>2</sub> O <sub>4</sub> (100) surface as a function of annealing temperature. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 5795-804	3.6	7
55	Metastable surface oxide on CoGa(100): Structure and stability. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	7
54	Temperature and thickness dependent epitaxial relationship of Pd (111) on Cr (110). <i>Thin Solid Films</i> , <b>1998</b> , 318, 201-203	2.2	7
53	In situ x-ray study of Fe <sub>3</sub> Al(110) subsurface superlattice disordering during oxidation. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	7
52	Growth of epitaxial Pr <sub>2</sub> O <sub>3</sub> layers on Si(111). <i>Materials Science in Semiconductor Processing</i> , <b>2006</b> , 9, 1079-1083	4.9	7
51	Characterization of surface morphologies at the AlPdMn fivefold surface. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2000</b> , 294-296, 822-825	5.3	7
50	Nanosecond laser pulse heating of a platinum surface studied by pump-probe X-ray diffraction. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 043107	3.4	7



49	Interaction of Water with Graphene/Ir(111) Studied by Vibrational Spectroscopy. <i>Langmuir</i> , <b>2019</b> , 35, 11285-11290	4	6
48	Initial oxidation of MgO-supported Rh nanoparticles studied by TEM. <i>Surface Science</i> , <b>2009</b> , 603, 2551-2558		6
47	Morphological evolution of the fivefold surface of $\text{AlPdMn}$ quasicrystals. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	6
46	Single orientation graphene synthesized on iridium thin films grown by molecular beam epitaxy. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 075304	2.5	6
45	Nano-scale oxide formation inside electrochemically-formed Pt blisters at a solid electrolyte interface. <i>Solid State Ionics</i> , <b>2019</b> , 330, 17-23	3.3	6
44	Operando Stability Studies of Ultrathin Single-Crystalline $\text{IrO}_2(110)$ Films under Acidic Oxygen Evolution Reaction Conditions. <i>ACS Catalysis</i> , 12651-12660	13.1	6
43	Surface-Sensitive X-ray Diffraction Across the Pressure Gap. <i>Springer Series in Chemical Physics</i> , <b>2017</b> , 59-87	0.3	5
42	Order-disorder phase transition of the subsurface cation vacancy reconstruction on $\text{FeO}(001)$ . <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 8336-8343	3.6	5
41	Surface characterization of nitrogen-doped Nb (100) large-grain superconducting RF cavity material. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 10411-10422	4.3	5
40	Water and Atomic Hydrogen Adsorption on Magnetite (001). <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 26662-26672	3.8	5
39	Surface-Sensitive X-Ray Diffraction Methods <b>2013</b> , 221-257		5
38	Dedicated beamlines for in-situ investigations of materials in reduced dimensions. <i>International Journal of Materials Research</i> , <b>2011</b> , 102, 913-924	0.5	5
37	Incommensurate strain-induced ordering of interstitial oxygen in Nb. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 275206	1.8	5
36	In Situ X-Ray Diffraction Study of $\text{Ag}(100)$ at Ambient Oxygen Pressures. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 10998-11002	3.8	5
35	Ultrafast Real-Time Dynamics of CO Oxidation over an Oxide Photocatalyst. <i>ACS Catalysis</i> , <b>2020</b> , 10, 13650-13658	13.1	5
34	A model study on controlling dealloying corrosion attack by lateral modification of surfactant inhibitors. <i>Npj Materials Degradation</i> , <b>2021</b> , 5,	5.7	5
33	Elasticity of Cross-Linked Titania Nanocrystal Assemblies Probed by AFM-Bulge Tests. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	4
32	Dehydrogenation of Liquid Organic Hydrogen Carriers on Supported Pd Model Catalysts: Carbon Incorporation Under Operation Conditions. <i>Catalysis Letters</i> , <b>2018</b> , 148, 2901-2910	2.8	4



31	Characterization and Properties of the AlPdMn 5 Surface. <i>Materials Research Society Symposia Proceedings</i> , <b>1998</b> , 553, 243		4
30	Hydrogen affinity at Cr/Er <sub>2</sub> O <sub>3</sub> metal/oxide interfaces studied by the <sup>1</sup> H( <sup>15</sup> N, <sup>13</sup> C) nuclear resonance reaction. <i>Vacuum</i> , <b>1999</b> , 52, 291-294	3.7	4
29	High energy surface x-ray diffraction applied to model catalyst surfaces at work. <i>Journal of Physics Condensed Matter</i> , <b>2021</b> , 33, 073001	1.8	4
28	Extraordinary Stability of IrO(110) Ultrathin Films Supported on TiO(110) under Cathodic Polarization. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 9057-9062	6.4	4
27	Function Follows Form: From Semiconducting to Metallic toward Superconducting PbS Nanowires by Faceting the Crystal. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1910503	15.6	3
26	Atomic scale step structure and orientation of a curved surface ZnO single crystal. <i>Journal of Chemical Physics</i> , <b>2020</b> , 152, 074705	3.9	3
25	In situ x-ray study of the oxidation of a vicinal NiAl(6,7,1) surface. <i>New Journal of Physics</i> , <b>2009</b> , 11, 113004	4.9	3
24	Controlled Growth of Gold Nanoparticles on Covellite Copper Sulfide Nanoplatelets for the Formation of Plate-Satellite Hybrid Structures. <i>Chemistry of Materials</i> , <b>2022</b> , 34, 1157-1166	9.6	3
23	Electrochemical oxidation of Pt(111) beyond the place-exchange model. <i>Electrochimica Acta</i> , <b>2022</b> , 407, 139881	6.7	3
22	Oxidation of metals investigated by in situ surface sensitive X-ray diffraction. <i>International Journal of Materials Research</i> , <b>2002</b> , 93, 833-839		3
21	Nitrogen infusion R&D at DESY a case study on cavity cut-outs. <i>Superconductor Science and Technology</i> , <b>2020</b> , 33, 115017	3.1	3
20	Growth of well-ordered iron sulfide thin films. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 20204-20210	1.6	2
19	SXNS13: Surface X-ray and Neutron Scattering Conference in Hamburg. <i>Synchrotron Radiation News</i> , <b>2015</b> , 28, 9-10	0.6	2
18	Faceting of local droplet-etched nanoholes in AlGaAs. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	2
17	Non-uniform nanosecond gate-delay of hybrid pixel detectors. <i>Journal of Synchrotron Radiation</i> , <b>2017</b> , 24, 1082-1085	2.4	2
16	Hydrogen Solubility and Atomic Structure of Graphene Supported Pd Nanoclusters. <i>ACS Nano</i> , <b>2021</b> , 15, 15771-15780	16.7	2
15	Heterogeneous Adsorption and Local Ordering of Formate on a Magnetite Surface. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 3847-3852	6.4	2
14	Temperature-dependent near-surface interstitial segregation in niobium. <i>Journal of Physics Condensed Matter</i> , <b>2021</b> , 33,	1.8	2

13	Role of hydroxylation for the atomic structure of a non-polar vicinal zinc oxide. <i>Communications Chemistry</i> , <b>2021</b> , 4,	6.3	2
12	Revisiting Optical Reflectance from Au(111) Electrode Surfaces with Combined High-Energy Surface X-ray Diffraction. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 096511	3.9	2
11	Toward Optimization of Centrifugal Barrel Polishing Procedure for Treatment of Niobium Cavities. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2018</b> , 28, 1-5	1.8	1
10	Hard X-ray Resonant Ptychography for Chemical Imaging at the Sensitivity Limit. <i>Microscopy and Microanalysis</i> , <b>2018</b> , 24, 28-29	0.5	1
9	Roughness Characterization of the Surface and Interface of MBE-Grown Thin Films. <i>Springer Proceedings in Physics</i> , <b>1992</b> , 233-236	0.2	1
8	studies of the cathodic stability of single-crystalline IrO(110) ultrathin films supported on RuO(110)/Ru(0001) in an acidic environment. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 22956-22962 <sup>3.6</sup>		1
7	Durability of Colloidally Stabilized Supported Nickel and Nickel Platinum Nanoparticles during Redox-Cycling. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 8224-8235	3.8	1
6	Metastability of palladium carbide nanoparticles during hydrogen release from liquid organic hydrogen carriers. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 1371-1380	3.6	1
5	Single alloy nanoparticle x-ray imaging during a catalytic reaction. <i>Science Advances</i> , <b>2021</b> , 7, eabh0757	14.3	1
4	Grain boundary segregation and carbide precipitation in heat treated niobium superconducting radio frequency cavities. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 194102	3.4	0
3	Copper Nanoparticles with High Index Facets on Basal and Vicinal ZnO Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 23561-23569	3.8	0
2	Carbon Embedding of Pt Cluster Superlattices Templated by Hexagonal Boron Nitride on Ir(111). <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 23435-23444	3.8	0
1	Electron spin resonance in a proximity-coupled MoS <sub>2</sub> /graphene van der Waals heterostructure. <i>AIP Advances</i> , <b>2022</b> , 12, 035111	1.5	