

Niklas Nilius

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158
papers

6,371
citations

40
h-index

74
g-index

163
ext. papers

6,708
ext. citations

5.8
avg. IF

5.86
L-index

#	Paper	IF	Citations
158	Development of one-dimensional band structure in artificial gold chains. <i>Science</i> , 2002 , 297, 1853-6	33.3	396
157	Photochemistry on metal nanoparticles. <i>Chemical Reviews</i> , 2006 , 106, 4301-20	68.1	390
156	Nanoparticles for heterogeneous catalysis: new mechanistic insights. <i>Accounts of Chemical Research</i> , 2013 , 46, 1673-81	24.3	304
155	Properties of oxide thin films and their adsorption behavior studied by scanning tunneling microscopy and conductance spectroscopy. <i>Surface Science Reports</i> , 2009 , 64, 595-659	12.9	204
154	Gold supported on thin oxide films: from single atoms to nanoparticles. <i>Accounts of Chemical Research</i> , 2008 , 41, 949-56	24.3	179
153	Photon emission spectroscopy of individual oxide-supported silver clusters in a scanning tunneling microscope. <i>Physical Review Letters</i> , 2000 , 84, 3994-7	7.4	175
152	Electron localization in defective ceria films: a study with scanning-tunneling microscopy and density-functional theory. <i>Physical Review Letters</i> , 2011 , 106, 246801	7.4	140
151	Identification of color centers on MgO(001) thin films with scanning tunneling microscopy. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 46-9	3.4	133
150	Interplay between structural, magnetic, and electronic properties in a FeO/Pt(111) ultrathin film. <i>Physical Review B</i> , 2007 , 76,	3.3	124
149	Self-organization of gold atoms on a polar FeO(111) surface. <i>Physical Review Letters</i> , 2005 , 95, 066101	7.4	124
148	Quantum well states in two-dimensional gold clusters on MgO thin films. <i>Physical Review Letters</i> , 2009 , 102, 206801	7.4	121
147	Oxygen-deficient line defects in an ultrathin aluminum oxide film. <i>Physical Review Letters</i> , 2006 , 97, 046101	7.4	114
146	Charge-mediated adsorption behavior of CO on MgO-supported Au clusters. <i>Journal of the American Chemical Society</i> , 2010 , 132, 7745-9	16.4	110
145	Electronic density oscillations in gold atomic chains assembled atom by atom. <i>Physical Review Letters</i> , 2002 , 89, 236802	7.4	105
144	Atomic structure of antiphase domain boundaries of a thin Al ₂ O ₃ film on NiAl(110). <i>Physical Review Letters</i> , 2003 , 91, 256101	7.4	104
143	Charging of metal adatoms on ultrathin oxide films: Au and Pd on FeO/Pt(111). <i>Physical Review Letters</i> , 2008 , 101, 026102	7.4	101
142	Surface potential of a polar oxide film: FeO on Pt(111). <i>Physical Review B</i> , 2005 , 71,	3.3	97

141	Temperature-Dependent Morphology, Magnetic and Optical Properties of Li-Doped MgO. <i>ChemCatChem</i> , 2010 , 2, 854-862	5.2	91
140	Tailoring the shape of metal ad-particles by doping the oxide support. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 11525-7	16.4	90
139	Counting electrons transferred through a thin alumina film into Au chains. <i>Physical Review Letters</i> , 2008 , 100, 096802	7.4	90
138	Oxidation of Au by surface OH: nucleation and electronic structure of gold on hydroxylated MgO(001). <i>Journal of the American Chemical Society</i> , 2011 , 133, 10668-76	16.4	85
137	Donor characteristics of transition-metal-doped oxides: Cr-doped MgO versus Mo-doped CaO. <i>Journal of the American Chemical Society</i> , 2012 , 134, 11380-3	16.4	84
136	Morphology and optical properties of MgO thin films on Mo(001). <i>Chemical Physics Letters</i> , 2006 , 430, 330-335	2.5	80
135	Distance dependence of the interaction between single atoms: gold dimers on NiAl(110). <i>Physical Review Letters</i> , 2003 , 90, 196103	7.4	76
134	Carbon dioxide activation and reaction induced by electron transfer at an oxide-metal interface. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 12484-7	16.4	71
133	Adsorption, activation, and dissociation of oxygen on doped oxides. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 11385-7	16.4	66
132	Characterizing low-coordinated atoms at the periphery of MgO-supported Au islands using scanning tunneling microscopy and electronic structure calculations. <i>Physical Review B</i> , 2010 , 81,	3.3	64
131	Structure and morphology of thin MgO films on Mo(001). <i>Physical Review B</i> , 2008 , 78,	3.3	64
130	Charge-induced formation of linear Au clusters on thin MgO films: Scanning tunneling microscopy and density-functional theory study. <i>Physical Review B</i> , 2008 , 78,	3.3	63
129	Influence of a heterogeneous Al ₂ O ₃ surface on the electronic properties of single Pd atoms. <i>Physical Review Letters</i> , 2003 , 90, 046808	7.4	62
128	Au dimers on thin MgO(001) films: flat and charged or upright and neutral?. <i>Journal of the American Chemical Society</i> , 2008 , 130, 7814-5	16.4	60
127	Formation of one-dimensional electronic states along the step edges of CeO ₂ (111). <i>ACS Nano</i> , 2012 , 6, 1126-33	16.7	55
126	Electron trapping in misfit dislocations of MgO thin films. <i>Physical Review B</i> , 2010 , 81,	3.3	55
125	Selectivity in Methanol Oxidation as Studied on Model Systems Involving Vanadium Oxides. <i>Topics in Catalysis</i> , 2008 , 50, 106-115	2.3	52
124	A fresh look at an old nano-technology: catalysis. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 8148-67	3.6	51

123	Titration of Ce ³⁺ ions in the CeO ₂ (111) surface by Au adatoms. <i>Physical Review Letters</i> , 2013 , 111, 206101	4	51
122	Model Studies in Catalysis. <i>Topics in Catalysis</i> , 2011 , 54, 4-12	2.3	47
121	Electron paramagnetic resonance and scanning tunneling microscopy investigations on the formation of F(+) and F(0) Color centers on the surface of thin MgO(001) films. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 8665-9	3.4	47
120	Incorrect DFT-GGA predictions of the stability of non-stoichiometric/polar dielectric surfaces: the case of Cu ₂ O(111). <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 6729-33	3.6	41
119	Activating Nonreducible Oxides via Doping. <i>Accounts of Chemical Research</i> , 2015 , 48, 1532-9	24.3	40
118	Localized molecular constraint on electron delocalization in a metallic chain. <i>Physical Review Letters</i> , 2003 , 90, 186102	7.4	40
117	STM Luminescence Spectroscopy of Intrinsic Defects in ZnO(0001) Thin Films. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 3972-3976	6.4	39
116	Growth and Morphology of Calcium-Oxide Films Grown on Mo(001). <i>Journal of Physical Chemistry C</i> , 2011 , 115, 8784-8789	3.8	39
115	Interaction of CO molecules with surface state electrons on Ag(111). <i>Surface Science</i> , 2005 , 590, L253-L258	5.8	39
114	On energy transfer processes at cluster-oxide interfaces: silver on titania. <i>Chemical Physics Letters</i> , 2001 , 349, 351-357	2.5	39
113	Experiments on individual alumina-supported adatoms and clusters. <i>Progress in Surface Science</i> , 2001 , 67, 99-121	6.6	39
112	Ceria Nanocrystals Exposing Wide (100) Facets: Structure and Polarity Compensation. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1400404	4.6	38
111	Interaction of Water with the CaO(001) Surface. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 5565-5576	3.8	38
110	Nucleation and Growth of Gold on MgO Thin Films: A Combined STM and Luminescence Study. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 10528-10533	3.8	36
109	Absolute Surface Step Energies: Accurate Theoretical Methods Applied to Ceria Nanoislands. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 1956-1961	6.4	35
108	Gold Adsorption on CeO ₂ Thin Films Grown on Ru(0001). <i>Journal of Physical Chemistry C</i> , 2013 , 117, 21879-21885	5.4	35
107	Cathodoluminescence of near-surface centres in Cr-doped MgO(001) thin films probed by scanning tunnelling microscopy. <i>New Journal of Physics</i> , 2012 , 14, 033006	2.9	34
106	Defect-induced gap states in Al ₂ O ₃ thin films on NiAl(110). <i>Physical Review B</i> , 2004 , 69,	3.3	34

105	Li/Mo codoping of CaO films: a means to tailor the equilibrium shape of Au deposits. <i>Journal of the American Chemical Society</i> , 2012 , 134, 2532-4	16.4	33
104	Morphology and Luminescence of ZnO Films Grown on a Au(111) Support. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 10552-10557	3.8	33
103	Self-Assembly of MgPc Molecules on Polar FeO Thin Films. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 15325-15328	3.8	33
102	Luminescence Properties of Nitrogen-Doped ZnO. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 13693-13698	3.8	32
101	Electronic properties and charge state of gold monomers and chains adsorbed on alumina thin films on NiAl(110). <i>Physical Review B</i> , 2010 , 81,	3.3	31
100	Competition between Polar and Nonpolar Growth of MgO Thin Films on Au(111). <i>Journal of Physical Chemistry C</i> , 2011 , 115, 23043-23049	3.8	30
99	Strain-induced formation of ultrathin mixed-oxide films. <i>Physical Review B</i> , 2011 , 83,	3.3	30
98	Palladium monomers, dimers, and trimers on the MgO(001) surface viewed individually. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 8703-6	16.4	30
97	Evidence for a size-selective adsorption mechanism on oxide surfaces: Pd and Au atoms on SiO ₂ /Mo(112). <i>ChemPhysChem</i> , 2008 , 9, 1367-70	3.2	29
96	Growth and Surface Properties of Cuprous Oxide Films on Au(111). <i>Journal of Physical Chemistry C</i> , 2015 , 119, 5975-5981	3.8	28
95	Crossover from two- to three-dimensional gold particle shapes on CaO films of different thicknesses. <i>Physical Review B</i> , 2012 , 85,	3.3	27
94	Adsorption of Au and Pd Atoms on Thin SiO ₂ Films: the Role of Atomic Structure. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 3405-3409	3.8	27
93	Local band gap modulations in non-stoichiometric V ₂ O ₃ films probed by scanning tunneling spectroscopy. <i>Physical Review B</i> , 2008 , 77,	3.3	27
92	Photon emission spectroscopy of thin MgO films with the STM: from a tip-mediated to an intrinsic emission characteristic. <i>New Journal of Physics</i> , 2008 , 10, 013010	2.9	27
91	Tailoring electronic properties of atomic chains assembled by STM. <i>Applied Physics A: Materials Science and Processing</i> , 2005 , 80, 951-956	2.6	27
90	Change of the surface electronic structure of Au(111) by a monolayer MgO(001) film. <i>Physical Review B</i> , 2011 , 84,	3.3	26
89	Innovative measurement techniques in surface science. <i>ChemPhysChem</i> , 2011 , 12, 79-87	3.2	26
88	Formation of Water Chains on CaO(001): What Drives the 1D Growth?. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 1204-8	6.4	25

87	Model studies on heterogeneous catalysts at the atomic scale: From supported metal particles to two-dimensional zeolites. <i>Journal of Catalysis</i> , 2013 , 308, 154-167	7.3	25
86	Electron quantization in arbitrarily shaped gold islands on MgO thin films. <i>Physical Review B</i> , 2013 , 88,	3.3	25
85	Probing the 4f states of ceria by tunneling spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 12646-51	3.6	25
84	Quantization of electronic states in individual oxide-supported silver particles. <i>Surface Science</i> , 2004 , 572, 347-354	1.8	25
83	Single molecule vibrational and electronic analyses of the formation of inorganic complexes: CO bonding to Au and Ag atoms on NiAl(110). <i>Journal of Chemical Physics</i> , 2003 , 119, 2296-2300	3.9	25
82	Photon emission from individual supported gold clusters: thin film versus bulk oxide. <i>Surface Science</i> , 2001 , 478, L327-L332	1.8	25
81	Molecular Adsorption Changes the Quantum Structure of Oxide-Supported Gold Nanoparticles: Chemisorption versus Physisorption. <i>Physical Review Letters</i> , 2015 , 115, 036804	7.4	24
80	Diffusion Barriers Block Defect Occupation on Reduced CeO ₂ (111). <i>Physical Review Letters</i> , 2016 , 116, 236101	7.4	23
79	Steering the Growth of Metal Ad-particles via Interface Interactions Between a MgO Thin Film and a Mo Support. <i>Advanced Functional Materials</i> , 2013 , 23, 75-80	15.6	23
78	Controlling the charge state of single Mo dopants in a CaO film. <i>Physical Review B</i> , 2013 , 88,	3.3	23
77	Photon mapping of MgO thin films with an STM. <i>Surface Science</i> , 2007 , 601, L55-L58	1.8	23
76	Realization of a particle-in-a-box: electron in an atomic Pd chain. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 20657-60	3.4	23
75	Probing the electronic properties and charge state of gold nanoparticles on ultrathin MgO versus thick doped CaO films. <i>Physical Review B</i> , 2015 , 92,	3.3	22
74	Growth of thin alumina films on a vicinal NiAl surface. <i>Surface Science</i> , 2007 , 601, 4603-4607	1.8	22
73	CO Adsorption on Thin MgO Films and Single Au Adatoms: A Scanning Tunneling Microscopy Study. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 8997-9001	3.8	21
72	Realization of an atomic sieve: Silica on Mo(1 1 2). <i>Surface Science</i> , 2009 , 603, 1145-1149	1.8	21
71	Photon mapping of individual Ag particles on MgO/Mo(001). <i>Physical Review B</i> , 2011 , 83,	3.3	21
70	Structural and electronic characterization of the MgO/Mo(0 0 1) interface using STM. <i>Surface Science</i> , 2010 , 604, 435-441	1.8	20

69	Temperature-dependent phase evolution of copper-oxide thin-films on Au(111). <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 5636-5643	3.6	19
68	Modifying the adsorption characteristic of inert silica films by inserting anchoring sites. <i>Physical Review Letters</i> , 2009 , 102, 016102	7.4	19
67	Lithium incorporation into a silica thin film: Scanning tunneling microscopy and density functional theory. <i>Physical Review B</i> , 2009 , 80,	3.3	19
66	Surface defects and their impact on the electronic structure of Mo-doped CaO films: an STM and DFT study. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 12764-72	3.6	18
65	Electronic and electrostatic properties of polar oxide nanostructures: MgO(111) islands on Au(111). <i>Physical Review B</i> , 2012 , 86,	3.3	18
64	Vibrational spectroscopy and imaging of single molecules: Bonding of CO to single palladium atoms on NiAl(110). <i>Journal of Chemical Physics</i> , 2002 , 117, 10947-10952	3.9	18
63	Oxidation of polycrystalline copper films [Pressure and temperature dependence. <i>Thin Solid Films</i> , 2018 , 651, 24-30	2.2	17
62	Growth and morphology of metal particles on MgO/Mo(001): A comparative STM and diffraction study. <i>Physical Review B</i> , 2011 , 83,	3.3	17
61	Stabilizing gold adatoms by thiophenyl derivatives: a possible route toward metal redispersion. <i>Journal of the American Chemical Society</i> , 2012 , 134, 11161-7	16.4	16
60	Substrate-mediated interaction and electron-induced diffusion of single lithium atoms on Ag(001). <i>Physical Review B</i> , 2007 , 75,	3.3	16
59	Photon emission spectroscopy of NiAl(110) in the scanning tunneling microscope. <i>Physical Review B</i> , 2000 , 61, 12682-12685	3.3	16
58	Defect complexes in Li-doped MgO. <i>Physical Review B</i> , 2015 , 91,	3.3	15
57	Nucleation of gold atoms on vanadyl-terminated V2O3(0001). <i>New Journal of Physics</i> , 2009 , 11, 093007	2.9	15
56	Probing the properties of metal-oxide interfaces: silica films on Mo and Ru supports. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 354010	1.8	15
55	Light emission spectroscopy of self-assembled arrays of silver nano-crystals with the STM. <i>Chemical Physics Letters</i> , 2005 , 413, 10-15	2.5	15
54	Compensating Edge Polarity: A Means To Alter the Growth Orientation of MgO Nanostructures on Au(111). <i>Journal of Physical Chemistry C</i> , 2012 , 116, 11126-11132	3.8	14
53	Building Alloys from Single Atoms: AuPd Chains on NiAl(110) <i>Journal of Physical Chemistry B</i> , 2004 , 108, 14616-14619	3.4	14
52	Dopant-Induced Diffusion Processes at MetalOxide Interfaces Studied for Iron- and Chromium-Doped MgO/Mo(001) Model Systems. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 13604-13609	3.8	13

51	Water Adsorption on Cu ₂ O(111) Surfaces: A Scanning Tunneling Microscopy Study. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 20877-20881	3.8	13
50	Manganese Oxide Thin Films on Au(111): Growth Competition between MnO and Mn ₃ O ₄ . <i>Journal of Physical Chemistry C</i> , 2019 , 123, 7665-7672	3.8	12
49	Growth of Two-Dimensional Lithium Islands on CaO(001) Thin Films. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 17980-17984	3.8	12
48	Phonon-mediated electron transport through CaO thin films. <i>Physical Review Letters</i> , 2015 , 114, 016804	7.4	10
47	In-situ optical view onto copper oxidation ¶ole of reactive interfaces and self-heating. <i>Corrosion Science</i> , 2019 , 159, 108112	6.8	10
46	Spontaneous Oxidation of Mg Atoms at Defect Sites in an MgO Surface. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 3684-3687	3.8	10
45	Model Studies on Heterogeneous Catalysts at the Atomic Scale. <i>Topics in Catalysis</i> , 2014 , 57, 822-832	2.3	9
44	Stabilizing monomeric iron species in a porous silica/Mo(112) film. <i>ACS Nano</i> , 2010 , 4, 863-8	16.7	9
43	Adsorption of Single Magnesium Phthalocyanine Molecules on V ₂ O ₃ Thin Films. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 10027-10031	3.8	9
42	Chromium-Doped MgO Thin Films: Morphology, Electronic Structure, and Segregation Effects. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 25469-25475	3.8	8
41	Water Adsorption to Crystalline Cu ₂ O Thin Films: Structural and Vibrational Properties. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 2195-2199	3.8	8
40	Adsorption of thioether molecules on an alumina thin film. <i>Surface Science</i> , 2014 , 628, 111-115	1.8	8
39	Charge competition with oxygen molecules determines the growth of gold particles on doped CaO films. <i>Faraday Discussions</i> , 2013 , 162, 153-63	3.6	8
38	Nanopyramidal Reconstruction of Cu ₂ O(111): A Long-Standing Surface Puzzle Solved by STM and DFT. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 26937-26943	3.8	8
37	Interaction of water with oxide thin film model systems. <i>Journal of Materials Research</i> , 2019 , 34, 360-378	2.5	7
36	Exploring routes to tailor the physical and chemical properties of oxides via doping: an STM study. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 303001	1.8	7
35	Copper Oxidation on Pt(111)¶More than a Surface Oxide?. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 26939-26946	3.8	7
34	Effect of electromagnetic interactions on plasmon excitations in silver particle ensembles. <i>Surface Science</i> , 2006 , 600, 128-133	1.8	7

33	Detailed photoluminescence study of vapor deposited films of different surface morphology. <i>Physica Status Solidi (B): Basic Research</i> , 2014 , 251, 2247-2256	1.3	6
32	Effect of lattice-gas atoms on the adsorption behaviour of thioether molecules. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 10987-93	3.6	6
31	Alkaline Earth versus Noble Metal Particles on MgO Thin Films: Growth and Optical Properties. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 18740-18745	3.8	6
30	Cathodoluminescence of small silver particles on Al ₂ O ₃ /NiAl (110). <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2002 , 122, 239-249	1.7	6
29	Morphological and Kinetic Insights into Cu ₂ O/CuO Oxidation. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 257, 1900365	1.3	6
28	High-Pressure Oxidation of Copper on Au(111): A Route toward Bulk-like Cuprous Oxide Films. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 28605-28613	3.8	5
27	Interplay between Electronic Properties and Interatomic Spacing in Artificial Gold Chains on NiAl(110). <i>Journal of Physical Chemistry C</i> , 2014 , 118, 29001-29006	3.8	4
26	Autocatalytic growth of ZnO nanorods from flat Au(111)-supported ZnO films. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 26741-5	3.6	4
25	Low-temperature scanning tunnelling microscopy study of O ₂ adsorption on Ru(0001). <i>Applied Physics A: Materials Science and Processing</i> , 1998 , 66, S519-S523	2.6	4
24	From Single Atoms to One-Dimensional Solids: Artificial Gold Chains on NiAl(110). <i>Japanese Journal of Applied Physics</i> , 2003 , 42, 4790-4794	1.4	4
23	Ag/ZnO hybrid systems studied with scanning tunnelling microscopy-based luminescence spectroscopy. <i>Journal of Applied Physics</i> , 2016 , 119, 095310	2.5	4
22	Gold/Isophorone Interaction Driven by Keto/Enol Tautomerization. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 21962-21966	3.8	4
21	Empty Valence-Band Pocket in p-Type Cu ₂ O(111) Probed with Scanning Tunneling Spectroscopy. <i>Physica Status Solidi (B): Basic Research</i> , 2016 , 2100337	1.3	4
20	Single Molecule Vibrational Spectroscopy: CO Bonding to Edge and Terrace Positions on Ag, Au, and Pd Islands on NiAl(110). <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 4683-4688	6.4	3
19	Lithium-molybdate nanostructures grown on the Mo(001) surface. <i>Surface Science</i> , 2013 , 609, 78-84	1.8	3
18	Growth of Self-Passivating Oxide Layers on Aluminum: Pressure and Temperature Dependence. <i>Physica Status Solidi (B): Basic Research</i> , 2021 , 258, 2000559	1.3	3
17	Adsorption of squaraine molecules to Au(111) and Ag(001) surfaces. <i>Journal of Chemical Physics</i> , 2018 , 148, 074702	3.9	2
16	Role of the V ₂ O ₃ (0001) Defect Structure in the Adsorption of Au Adatoms. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 3404-3409	3.8	2

15	Reactive Copper Deposition on Au(111) and Mo(001): Role of the Support in the Oxidation Process. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 7591-7596	3.8	2
14	Photoluminescence of Squaraine Thin Films: Spatial Homogeneity and Temperature Dependence. <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1800450	1.3	2
13	Copper oxide phases probed via plasmonic light emission in the STM. <i>New Journal of Physics</i> , 2021 , 23, 093021	2.9	2
12	Formation of Magic Isophorone Islands on Au(111): Interplay between Dipole Interactions and Hydrogen Bonding. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 4318-4323	3.8	1
11	Metal Nanoparticles: Steering the Growth of Metal Ad-particles via Interface Interactions Between a MgO Thin Film and a Mo Support (Adv. Funct. Mater. 1/2013). <i>Advanced Functional Materials</i> , 2013 , 23, 136-136	15.6	1
10	Impact of Granularity on the Oxidation Kinetics of Copper. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 257, 1900778	1.3	1
9	Negative differential conductance in the electron-transport through copper-rich cuprous oxide thin films. <i>New Journal of Physics</i> , 2019 , 21, 113026	2.9	1
8	Growth and characterization of Ca-Mo mixed oxide films on Mo(001). <i>Journal of Chemical Physics</i> , 2019 , 151, 234708	3.9	1
7	Electron stimulated desorption of vanadyl-groups from vanadium oxide thin films on Ru(0001) probed with STM. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 8439-8445	3.6	1
6	Tungsten deposits facilitate oxidation of the NiAl(110) surface. <i>Journal of Chemical Physics</i> , 2019 , 150, 124701	3.9	0
5	Thin Oxide Films as Model Systems for Heterogeneous Catalysts. <i>Springer Handbooks</i> , 2020 , 267-328	1.3	0
4	Two-Dimensional Oxide Alloys Probed at the Atomic Level: (V,Fe)2O3 Honeycomb Monolayers on Pt(111). <i>Journal of Physical Chemistry C</i> , 2022 , 126, 5070-5078	3.8	0
3	Avoiding arbitrarily wrong microluminescence statistics due to a non-quantitatively calibrated setup. <i>Physica Status Solidi (B): Basic Research</i> , 2017 , 254, 1600761	1.3	
2	A fiber scanning tunneling microscope for optical analysis at the nanoscale. <i>Review of Scientific Instruments</i> , 2020 , 91, 073110	1.7	
1	Oxygen Vacancies in the CeO2(111) Surface and Their Relevance for Adsorption Processes 2018 , 182-188		