

# Niklas Nilius

## List of Publications by Year in Descending Order

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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.

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	Two-Dimensional Oxide Alloys Probed at the Atomic Level: (V,Fe)2O3 Honeycomb Monolayers on Pt(111). <i>Journal of Physical Chemistry C</i> , <b>2022</b> , 126, 5070-5078	3.8	0
157	Electron stimulated desorption of vanadyl-groups from vanadium oxide thin films on Ru(0001) probed with STM. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 8439-8445	3.6	1
156	Growth of Self-Passivating Oxide Layers on Aluminum Pressure and Temperature Dependence. <i>Physica Status Solidi (B): Basic Research</i> , <b>2021</b> , 258, 2000559	1.3	3
155	Copper oxide phases probed via plasmonic light emission in the STM. <i>New Journal of Physics</i> , <b>2021</b> , 23, 093021	2.9	2
154	Thin Oxide Films as Model Systems for Heterogeneous Catalysts. <i>Springer Handbooks</i> , <b>2020</b> , 267-328	1.3	0
153	Morphological and Kinetic Insights into Cu2O/CuO Oxidation. <i>Physica Status Solidi (B): Basic Research</i> , <b>2020</b> , 257, 1900365	1.3	6
152	A fiber scanning tunneling microscope for optical analysis at the nanoscale. <i>Review of Scientific Instruments</i> , <b>2020</b> , 91, 073110	1.7	
151	Impact of Granularity on the Oxidation Kinetics of Copper. <i>Physica Status Solidi (B): Basic Research</i> , <b>2020</b> , 257, 1900778	1.3	1
150	Nanopyramidal Reconstruction of Cu2O(111): A Long-Standing Surface Puzzle Solved by STM and DFT. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 26937-26943	3.8	8
149	High-Pressure Oxidation of Copper on Au(111): A Route toward Bulk-like Cuprous Oxide Films. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 28605-28613	3.8	5
148	Interaction of water with oxide thin film model systems. <i>Journal of Materials Research</i> , <b>2019</b> , 34, 360-378	2.5	7
147	Tungsten deposits facilitate oxidation of the NiAl(110) surface. <i>Journal of Chemical Physics</i> , <b>2019</b> , 150, 124701	3.9	0
146	Manganese Oxide Thin Films on Au(111): Growth Competition between MnO and Mn3O4. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 7665-7672	3.8	12
145	In-situ optical view onto copper oxidation: Role of reactive interfaces and self-heating. <i>Corrosion Science</i> , <b>2019</b> , 159, 108112	6.8	10
144	Copper Oxidation on Pt(111): More than a Surface Oxide?. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 26939-26946	3.8	7
143	Negative differential conductance in the electron-transport through copper-rich cuprous oxide thin films. <i>New Journal of Physics</i> , <b>2019</b> , 21, 113026	2.9	1
142	Growth and characterization of Ca-Mo mixed oxide films on Mo(001). <i>Journal of Chemical Physics</i> , <b>2019</b> , 151, 234708	3.9	1

141	Photoluminescence of Squaraine Thin Films: Spatial Homogeneity and Temperature Dependence. <i>Physica Status Solidi (B): Basic Research</i> , <b>2019</b> , 256, 1800450	1.3	2
140	Oxidation of polycrystalline copper films [Pressure and temperature dependence. <i>Thin Solid Films</i> , <b>2018</b> , 651, 24-30	2.2	17
139	Temperature-dependent phase evolution of copper-oxide thin-films on Au(111). <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 5636-5643	3.6	19
138	Water Adsorption to Crystalline Cu <sub>2</sub> O Thin Films: Structural and Vibrational Properties. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 2195-2199	3.8	8
137	Adsorption of squaraine molecules to Au(111) and Ag(001) surfaces. <i>Journal of Chemical Physics</i> , <b>2018</b> , 148, 074702	3.9	2
136	Oxygen Vacancies in the CeO <sub>2</sub> (111) Surface and Their Relevance for Adsorption Processes <b>2018</b> , 182-188		
135	Formation of Magic Isophorone Islands on Au(111): Interplay between Dipole Interactions and Hydrogen Bonding. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 4318-4323	3.8	1
134	Water Adsorption on Cu <sub>2</sub> O(111) Surfaces: A Scanning Tunneling Microscopy Study. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 20877-20881	3.8	13
133	Avoiding arbitrarily wrong microluminescence statistics due to a non-quantitatively calibrated setup. <i>Physica Status Solidi (B): Basic Research</i> , <b>2017</b> , 254, 1600761	1.3	
132	Diffusion Barriers Block Defect Occupation on Reduced CeO <sub>2</sub> (111). <i>Physical Review Letters</i> , <b>2016</b> , 116, 236101	7.4	23
131	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> , <b>2016</b> , 7, 4683-4688	6.4	3
130	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> , <b>2016</b> , 120, 13604-13609	3.8	13
129	Incorrect DFT-GGA predictions of the stability of non-stoichiometric/polar dielectric surfaces: the case of Cu <sub>2</sub> O(111). <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 6729-33	3.6	41
128	Ag/ZnO hybrid systems studied with scanning tunnelling microscopy-based luminescence spectroscopy. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 095310	2.5	4
127	Reactive Copper Deposition on Au(111) and Mo(001): Role of the Support in the Oxidation Process. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 7591-7596	3.8	2
126	Interaction of Water with the CaO(001) Surface. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 5565-5576	3.8	38
125	Gold/Isophorone Interaction Driven by Keto/Enol Tautomerization. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 21962-21966	3.8	4
124	Exploring routes to tailor the physical and chemical properties of oxides via doping: an STM study. <i>Journal of Physics Condensed Matter</i> , <b>2015</b> , 27, 303001	1.8	7

123	Phonon-mediated electron transport through CaO thin films. <i>Physical Review Letters</i> , <b>2015</b> , 114, 016804	7.4	10
122	Molecular Adsorption Changes the Quantum Structure of Oxide-Supported Gold Nanoparticles: Chemisorption versus Physisorption. <i>Physical Review Letters</i> , <b>2015</b> , 115, 036804	7.4	24
121	Formation of Water Chains on CaO(001): What Drives the 1D Growth?. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 1204-8	6.4	25
120	Activating Nonreducible Oxides via Doping. <i>Accounts of Chemical Research</i> , <b>2015</b> , 48, 1532-9	24.3	40
119	Chromium-Doped MgO Thin Films: Morphology, Electronic Structure, and Segregation Effects. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 25469-25475	3.8	8
118	Defect complexes in Li-doped MgO. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	15
117	Probing the electronic properties and charge state of gold nanoparticles on ultrathin MgO versus thick doped CaO films. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	22
116	Carbon dioxide activation and reaction induced by electron transfer at an oxide-metal interface. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 12484-7	16.4	71
115	Growth and Surface Properties of Cuprous Oxide Films on Au(111). <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 5975-5981	3.8	28
114	A fresh look at an old nano-technology: catalysis. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 8148-67	3.6	51
113	Model Studies on Heterogeneous Catalysts at the Atomic Scale. <i>Topics in Catalysis</i> , <b>2014</b> , 57, 822-832	2.3	9
112	Luminescence Properties of Nitrogen-Doped ZnO. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 13693-13698	3.6	32
111	Adsorption of thioether molecules on an alumina thin film. <i>Surface Science</i> , <b>2014</b> , 628, 111-115	1.8	8
110	Interplay between Electronic Properties and Interatomic Spacing in Artificial Gold Chains on NiAl(110). <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 29001-29006	3.8	4
109	Detailed photoluminescence study of vapor deposited films of different surface morphology. <i>Physica Status Solidi (B): Basic Research</i> , <b>2014</b> , 251, 2247-2256	1.3	6
108	Ceria Nanocrystals Exposing Wide (100) Facets: Structure and Polarity Compensation. <i>Advanced Materials Interfaces</i> , <b>2014</b> , 1, 1400404	4.6	38
107	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> , <b>2014</b> , 16, 12764-72	3.6	18
106	Autocatalytic growth of ZnO nanorods from flat Au(111)-supported ZnO films. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 26741-5	3.6	4

105	Charge competition with oxygen molecules determines the growth of gold particles on doped CaO films. <i>Faraday Discussions</i> , <b>2013</b> , 162, 153-63	3.6	8
104	Lithium-molybdate nanostructures grown on the Mo(001) surface. <i>Surface Science</i> , <b>2013</b> , 609, 78-84	1.8	3
103	Gold Adsorption on CeO <sub>2</sub> Thin Films Grown on Ru(0001). <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 2187-2188	3.8	34
102	Titration of Ce <sup>3+</sup> ions in the CeO <sub>2</sub> (111) surface by Au adatoms. <i>Physical Review Letters</i> , <b>2013</b> , 111, 206101	4.1	51
101	STM Luminescence Spectroscopy of Intrinsic Defects in ZnO(0001) Thin Films. <i>Journal of Physical Chemistry Letters</i> , <b>2013</b> , 4, 3972-3976	6.4	39
100	Model studies on heterogeneous catalysts at the atomic scale: From supported metal particles to two-dimensional zeolites. <i>Journal of Catalysis</i> , <b>2013</b> , 308, 154-167	7.3	25
99	Adsorption, activation, and dissociation of oxygen on doped oxides. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 11385-7	16.4	66
98	Nanoparticles for heterogeneous catalysis: new mechanistic insights. <i>Accounts of Chemical Research</i> , <b>2013</b> , 46, 1673-81	24.3	304
97	Morphology and Luminescence of ZnO Films Grown on a Au(111) Support. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 10552-10557	3.8	33
96	Steering the Growth of Metal Ad-particles via Interface Interactions Between a MgO Thin Film and a Mo Support. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 75-80	15.6	23
95	Electron quantization in arbitrarily shaped gold islands on MgO thin films. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	25
94	Controlling the charge state of single Mo dopants in a CaO film. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	23
93	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> , <b>2013</b> , 23, 136-136	15.6	1
92	Growth of Two-Dimensional Lithium Islands on CaO(001) Thin Films. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 17980-17984	3.8	12
91	Formation of one-dimensional electronic states along the step edges of CeO <sub>2</sub> (111). <i>ACS Nano</i> , <b>2012</b> , 6, 1126-33	16.7	55
90	Absolute Surface Step Energies: Accurate Theoretical Methods Applied to Ceria Nanoislands. <i>Journal of Physical Chemistry Letters</i> , <b>2012</b> , 3, 1956-1961	6.4	35
89	Effect of lattice-gas atoms on the adsorption behaviour of thioether molecules. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 10987-93	3.6	6
88	Stabilizing gold adatoms by thiophenyl derivatives: a possible route toward metal redispersion. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 11161-7	16.4	16

87	Li/Mo codoping of CaO films: a means to tailor the equilibrium shape of Au deposits. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 2532-4	16.4	33
86	Donor characteristics of transition-metal-doped oxides: Cr-doped MgO versus Mo-doped CaO. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 11380-3	16.4	84
85	Compensating Edge Polarity: A Means To Alter the Growth Orientation of MgO Nanostructures on Au(111). <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 11126-11132	3.8	14
84	Cathodoluminescence of near-surface centres in Cr-doped MgO(001) thin films probed by scanning tunnelling microscopy. <i>New Journal of Physics</i> , <b>2012</b> , 14, 033006	2.9	34
83	Probing the properties of metal-oxide interfaces: silica films on Mo and Ru supports. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 354010	1.8	15
82	Crossover from two- to three-dimensional gold particle shapes on CaO films of different thicknesses. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	27
81	Electronic and electrostatic properties of polar oxide nanostructures: MgO(111) islands on Au(111). <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	18
80	Change of the surface electronic structure of Au(111) by a monolayer MgO(001) film. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	26
79	Electron localization in defective ceria films: a study with scanning-tunneling microscopy and density-functional theory. <i>Physical Review Letters</i> , <b>2011</b> , 106, 246801	7.4	140
78	Spontaneous Oxidation of Mg Atoms at Defect Sites in an MgO Surface. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 3684-3687	3.8	10
77	Probing the 4f states of ceria by tunneling spectroscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 12646-51	3.6	25
76	Oxidation of Au by surface OH: nucleation and electronic structure of gold on hydroxylated MgO(001). <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 10668-76	16.4	85
75	Model Studies in Catalysis. <i>Topics in Catalysis</i> , <b>2011</b> , 54, 4-12	2.3	47
74	Innovative measurement techniques in surface science. <i>ChemPhysChem</i> , <b>2011</b> , 12, 79-87	3.2	26
73	Tailoring the shape of metal ad-particles by doping the oxide support. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 11525-7	16.4	90
72	Growth and Morphology of Calcium-Oxide Films Grown on Mo(001). <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 8784-8789	3.8	39
71	Competition between Polar and Nonpolar Growth of MgO Thin Films on Au(111). <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 23043-23049	3.8	30
70	Role of the V <sub>2</sub> O <sub>3</sub> (0001) Defect Structure in the Adsorption of Au Adatoms. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 3404-3409	3.8	2

69	Growth and morphology of metal particles on MgO/Mo(001): A comparative STM and diffraction study. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	17
68	Photon mapping of individual Ag particles on MgO/Mo(001). <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	21
67	Strain-induced formation of ultrathin mixed-oxide films. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	30
66	Electron trapping in misfit dislocations of MgO thin films. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	55
65	Electronic properties and charge state of gold monomers and chains adsorbed on alumina thin films on NiAl(110). <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	31
64	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> , <b>2010</b> , 81,	3.3	64
63	Stabilizing monomeric iron species in a porous silica/Mo(112) film. <i>ACS Nano</i> , <b>2010</b> , 4, 863-8	16.7	9
62	Charge-mediated adsorption behavior of CO on MgO-supported Au clusters. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 7745-9	16.4	110
61	CO Adsorption on Thin MgO Films and Single Au Adatoms: A Scanning Tunneling Microscopy Study. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 8997-9001	3.8	21
60	Temperature-Dependent Morphology, Magnetic and Optical Properties of Li-Doped MgO. <i>ChemCatChem</i> , <b>2010</b> , 2, 854-862	5.2	91
59	Structural and electronic characterization of the MgO/Mo(0 0 1) interface using STM. <i>Surface Science</i> , <b>2010</b> , 604, 435-441	1.8	20
58	Quantum well states in two-dimensional gold clusters on MgO thin films. <i>Physical Review Letters</i> , <b>2009</b> , 102, 206801	7.4	121
57	Modifying the adsorption characteristic of inert silica films by inserting anchoring sites. <i>Physical Review Letters</i> , <b>2009</b> , 102, 016102	7.4	19
56	Nucleation of gold atoms on vanadyl-terminated V <sub>2</sub> O <sub>3</sub> (0001). <i>New Journal of Physics</i> , <b>2009</b> , 11, 093007	2.9	15
55	Properties of oxide thin films and their adsorption behavior studied by scanning tunneling microscopy and conductance spectroscopy. <i>Surface Science Reports</i> , <b>2009</b> , 64, 595-659	12.9	204
54	Realization of an atomic sieve: Silica on Mo(1 1 2). <i>Surface Science</i> , <b>2009</b> , 603, 1145-1149	1.8	21
53	Alkaline Earth versus Noble Metal Particles on MgO Thin Films: Growth and Optical Properties. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 18740-18745	3.8	6
52	Lithium incorporation into a silica thin film: Scanning tunneling microscopy and density functional theory. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	19

51	Au dimers on thin MgO(001) films: flat and charged or upright and neutral?. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 7814-5	16.4	60
50	Charge-induced formation of linear Au clusters on thin MgO films: Scanning tunneling microscopy and density-functional theory study. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	63
49	Self-Assembly of MgPc Molecules on Polar FeO Thin Films. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 15325-15328	3.8	33
48	Counting electrons transferred through a thin alumina film into Au chains. <i>Physical Review Letters</i> , <b>2008</b> , 100, 096802	7.4	90
47	Adsorption of Au and Pd Atoms on Thin SiO <sub>2</sub> Films: the Role of Atomic Structure. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 3405-3409	3.8	27
46	Local band gap modulations in non-stoichiometric V <sub>2</sub> O <sub>3</sub> films probed by scanning tunneling spectroscopy. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	27
45	Adsorption of Single Magnesium Phthalocyanine Molecules on V <sub>2</sub> O <sub>3</sub> Thin Films. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 10027-10031	3.8	9
44	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> , <b>2008</b> , 10, 013010	2.9	27
43	Charging of metal adatoms on ultrathin oxide films: Au and Pd on FeO/Pt(111). <i>Physical Review Letters</i> , <b>2008</b> , 101, 026102	7.4	101
42	Structure and morphology of thin MgO films on Mo(001). <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	64
41	Selectivity in Methanol Oxidation as Studied on Model Systems Involving Vanadium Oxides. <i>Topics in Catalysis</i> , <b>2008</b> , 50, 106-115	2.3	52
40	Evidence for a size-selective adsorption mechanism on oxide surfaces: Pd and Au atoms on SiO <sub>2</sub> /Mo(112). <i>ChemPhysChem</i> , <b>2008</b> , 9, 1367-70	3.2	29
39	Gold supported on thin oxide films: from single atoms to nanoparticles. <i>Accounts of Chemical Research</i> , <b>2008</b> , 41, 949-56	24.3	179
38	Nucleation and Growth of Gold on MgO Thin Films: A Combined STM and Luminescence Study. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 10528-10533	3.8	36
37	Palladium monomers, dimers, and trimers on the MgO(001) surface viewed individually. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 8703-6	16.4	30
36	Photon mapping of MgO thin films with an STM. <i>Surface Science</i> , <b>2007</b> , 601, L55-L58	1.8	23
35	Growth of thin alumina films on a vicinal NiAl surface. <i>Surface Science</i> , <b>2007</b> , 601, 4603-4607	1.8	22
34	Interplay between structural, magnetic, and electronic properties in a FeO/Bt(111) ultrathin film. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	124



33	Substrate-mediated interaction and electron-induced diffusion of single lithium atoms on Ag(001). <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	16
32	Oxygen-deficient line defects in an ultrathin aluminum oxide film. <i>Physical Review Letters</i> , <b>2006</b> , 97, 046101	7.4	114
31	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> , <b>2006</b> , 110, 8665-9	3.4	47
30	Identification of color centers on MgO(001) thin films with scanning tunneling microscopy. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 46-9	3.4	133
29	Morphology and optical properties of MgO thin films on Mo(001). <i>Chemical Physics Letters</i> , <b>2006</b> , 430, 330-335	2.5	80
28	Effect of electromagnetic interactions on plasmon excitations in silver particle ensembles. <i>Surface Science</i> , <b>2006</b> , 600, 128-133	1.8	7
27	Photochemistry on metal nanoparticles. <i>Chemical Reviews</i> , <b>2006</b> , 106, 4301-20	68.1	390
26	Realization of a particle-in-a-box: electron in an atomic Pd chain. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 20657-60	3.4	23
25	Interaction of CO molecules with surface state electrons on Ag(111). <i>Surface Science</i> , <b>2005</b> , 590, L253-L258	7.4	39
24	Light emission spectroscopy of self-assembled arrays of silver nano-crystals with the STM. <i>Chemical Physics Letters</i> , <b>2005</b> , 413, 10-15	2.5	15
23	Tailoring electronic properties of atomic chains assembled by STM. <i>Applied Physics A: Materials Science and Processing</i> , <b>2005</b> , 80, 951-956	2.6	27
22	Self-organization of gold atoms on a polar FeO(111) surface. <i>Physical Review Letters</i> , <b>2005</b> , 95, 066101	7.4	124
21	Surface potential of a polar oxide film: FeO on Pt(111). <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	97
20	Quantization of electronic states in individual oxide-supported silver particles. <i>Surface Science</i> , <b>2004</b> , 572, 347-354	1.8	25
19	Defect-induced gap states in Al <sub>2</sub> O <sub>3</sub> thin films on NiAl(110). <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	34
18	Building Alloys from Single Atoms: AuPd Chains on NiAl(110) $\square$ <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 14616-14619	3.4	14
17	From Single Atoms to One-Dimensional Solids: Artificial Gold Chains on NiAl(110). <i>Japanese Journal of Applied Physics</i> , <b>2003</b> , 42, 4790-4794	1.4	4
16	Atomic structure of antiphase domain boundaries of a thin Al <sub>2</sub> O <sub>3</sub> film on NiAl(110). <i>Physical Review Letters</i> , <b>2003</b> , 91, 256101	7.4	104

15	Localized molecular constraint on electron delocalization in a metallic chain. <i>Physical Review Letters</i> , <b>2003</b> , 90, 186102	7.4	40
14	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> , <b>2003</b> , 119, 2296-2300	3.9	25
13	Distance dependence of the interaction between single atoms: gold dimers on NiAl(110). <i>Physical Review Letters</i> , <b>2003</b> , 90, 196103	7.4	76
12	Influence of a heterogeneous Al <sub>2</sub> O <sub>3</sub> surface on the electronic properties of single Pd atoms. <i>Physical Review Letters</i> , <b>2003</b> , 90, 046808	7.4	62
11	Cathodoluminescence of small silver particles on Al <sub>2</sub> O <sub>3</sub> /NiAl (110). <i>Journal of Electron Spectroscopy and Related Phenomena</i> , <b>2002</b> , 122, 239-249	1.7	6
10	Vibrational spectroscopy and imaging of single molecules: Bonding of CO to single palladium atoms on NiAl(110). <i>Journal of Chemical Physics</i> , <b>2002</b> , 117, 10947-10952	3.9	18
9	Development of one-dimensional band structure in artificial gold chains. <i>Science</i> , <b>2002</b> , 297, 1853-6	33.3	396
8	Electronic density oscillations in gold atomic chains assembled atom by atom. <i>Physical Review Letters</i> , <b>2002</b> , 89, 236802	7.4	105
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6	Experiments on individual alumina-supported adatoms and clusters. <i>Progress in Surface Science</i> , <b>2001</b> , 67, 99-121	6.6	39
5	Photon emission from individual supported gold clusters: thin film versus bulk oxide. <i>Surface Science</i> , <b>2001</b> , 478, L327-L332	1.8	25
4	Photon emission spectroscopy of individual oxide-supported silver clusters in a scanning tunneling microscope. <i>Physical Review Letters</i> , <b>2000</b> , 84, 3994-7	7.4	175
3	Photon emission spectroscopy of NiAl(110) in the scanning tunneling microscope. <i>Physical Review B</i> , <b>2000</b> , 61, 12682-12685	3.3	16
2	Low-temperature scanning tunnelling microscopy study of O <sub>2</sub> adsorption on Ru(0001). <i>Applied Physics A: Materials Science and Processing</i> , <b>1998</b> , 66, S519-S523	2.6	4
1	Empty Valence-Band Pocket in p-Type Cu <sub>2</sub> O(111) Probed with Scanning Tunneling Spectroscopy. <i>Physica Status Solidi (B): Basic Research</i> , 2100337	1.3	4