

Niklas Nilius

List of Publications by Year in descending order

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all docs

163
docs citations

163
times ranked

6568
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Photochemistry on Metal Nanoparticles. Chemical Reviews, 2006, 106, 4301-4320. | 47.7 | 442 |
| 2 | Development of One-Dimensional Band Structure in Artificial Gold Chains. Science, 2002, 297, 1853-1856. | 12.6 | 434 |
| 3 | Nanoparticles for Heterogeneous Catalysis: New Mechanistic Insights. Accounts of Chemical Research, 2013, 46, 1673-1681. | 15.6 | 347 |
| 4 | Properties of oxide thin films and their adsorption behavior studied by scanning tunneling microscopy and conductance spectroscopy. Surface Science Reports, 2009, 64, 595-659. | 7.2 | 213 |
| 5 | Gold Supported on Thin Oxide Films: From Single Atoms to Nanoparticles. Accounts of Chemical Research, 2008, 41, 949-956. | 15.6 | 196 |
| 6 | Photon Emission Spectroscopy of Individual Oxide-Supported Silver Clusters in a Scanning Tunneling Microscope. Physical Review Letters, 2000, 84, 3994-3997. | 7.8 | 186 |
| 7 | Electron Localization in Defective Ceria Films: A Study with Scanning-Tunneling Microscopy and Density-Functional Theory. Physical Review Letters, 2011, 106, 246801. | 7.8 | 158 |
| 8 | Identification of Color Centers on MgO(001) Thin Films with Scanning Tunneling Microscopy. Journal of Physical Chemistry B, 2006, 110, 46-49. | 2.6 | 143 |
| 9 | Self-Organization of Gold Atoms on a Polar FeO(111) Surface. Physical Review Letters, 2005, 95, 066101. | 7.8 | 129 |
| 10 | Interplay between structural, magnetic, and electronic properties in a FePtO_3 film. Physical Review B, 2007, 76, . | 3.2 | 129 |
| 11 | Quantum Well States in Two-Dimensional Gold Clusters on MgO Thin Films. Physical Review Letters, 2009, 102, 206801. | 7.8 | 128 |
| 12 | Oxygen-Deficient Line Defects in an Ultrathin Aluminum Oxide Film. Physical Review Letters, 2006, 97, 046101. | 7.8 | 123 |
| 13 | Electronic Density Oscillations in Gold Atomic Chains Assembled Atom by Atom. Physical Review Letters, 2002, 89, 236802. | 7.8 | 116 |
| 14 | Surface potential of a polar oxide film: FeO on Pt(111). Physical Review B, 2005, 71, . | 3.2 | 114 |
| 15 | Atomic Structure of Antiphase Domain Boundaries of a Thin Al_2O_3 Film on NiAl(110). Physical Review Letters, 2003, 91, 256101. | 7.8 | 113 |
| 16 | Charge-Mediated Adsorption Behavior of CO on MgO-Supported Au Clusters. Journal of the American Chemical Society, 2010, 132, 7745-7749. | 13.7 | 112 |
| 17 | Charging of Metal Adatoms on Ultrathin Oxide Films: Au and Pd on FeO . Physical Review Letters, 2009, 102, 206801. | 7.8 | 109 |
| 18 | Temperature-Dependent Morphology, Magnetic and Optical Properties of Li -Doped MgO. ChemCatChem, 2010, 2, 854-862. | 3.7 | 102 |

| # | ARTICLE | IF | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Counting Electrons Transferred through a Thin Alumina Film into Au Chains. Physical Review Letters, 2008, 100, 096802. | 7.8 | 101 |
| 20 | Tailoring the Shape of Metal Adatoms Particles by Doping the Oxide Support. Angewandte Chemie - International Edition, 2011, 50, 11525-11527. | 13.8 | 99 |
| 21 | Oxidation of Au by Surface OH: Nucleation and Electronic Structure of Gold on Hydroxylated MgO(001). Journal of the American Chemical Society, 2011, 133, 10668-10676. | 13.7 | 94 |
| 22 | Donor Characteristics of Transition-Metal-Doped Oxides: Cr-Doped MgO versus Mo-Doped CaO. Journal of the American Chemical Society, 2012, 134, 11380-11383. | 13.7 | 90 |
| 23 | Morphology and optical properties of MgO thin films on Mo(001). Chemical Physics Letters, 2006, 430, 330-335. | 2.6 | 83 |
| 24 | Distance Dependence of the Interaction between Single Atoms: Gold Dimers on NiAl(110). Physical Review Letters, 2003, 90, 196103. | 7.8 | 81 |
| 25 | Carbon Dioxide Activation and Reaction Induced by Electron Transfer at an Oxide-Metal Interface. Angewandte Chemie - International Edition, 2015, 54, 12484-12487. | 13.8 | 80 |
| 26 | Adsorption, Activation, and Dissociation of Oxygen on Doped Oxides. Angewandte Chemie - International Edition, 2013, 52, 11385-11387. | 13.8 | 76 |
| 27 | Characterizing low-coordinated atoms at the periphery of MgO-supported Au islands using scanning tunneling microscopy and electronic structure calculations. Physical Review B, 2010, 81, . | 3.2 | 67 |
| 28 | Influence of a Heterogeneous Al ₂ O ₃ Surface on the Electronic Properties of Single Pd Atoms. Physical Review Letters, 2003, 90, 046808. | 7.8 | 65 |
| 29 | Structure and morphology of thin MgO films on Mo(001). Physical Review B, 2008, 78, . | 3.2 | 65 |
| 30 | Charge-induced formation of linear Au clusters on thin MgO films: Scanning tunneling microscopy and density-functional theory study. Physical Review B, 2008, 78, . | 3.2 | 64 |
| 31 | Au Dimers on Thin MgO(001) Films: Flat and Charged or Upright and Neutral?. Journal of the American Chemical Society, 2008, 130, 7814-7815. | 13.7 | 62 |
| 32 | Formation of One-Dimensional Electronic States along the Step Edges of CeO ₂ (111). ACS Nano, 2012, 6, 1126-1133. | 14.6 | 61 |
| 33 | Electron trapping in misfit dislocations of MgO thin films. Physical Review B, 2010, 81, . | 3.2 | 57 |
| 34 | Titration of Ce_3 in the CeO_2 Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 127 Td (stretchy="false") | 7.8 | 55 |
| 35 | 2061 A fresh look at an old nano-technology: catalysis. Physical Chemistry Chemical Physics, 2014, 16, 8148. | 2.8 | 55 |
| 36 | Selectivity in Methanol Oxidation as Studied on Model Systems Involving Vanadium Oxides. Topics in Catalysis, 2008, 50, 106-115. | 2.8 | 53 |

| # | ARTICLE | IF | CITATIONS |
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| 37 | 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, 8665-8669. | 2.6 | 51 |
| 38 | Model Studies in Catalysis. <i>Topics in Catalysis</i> , 2011, 54, 4-12. | 2.8 | 50 |
| 39 | Ceria Nanocrystals Exposing Wide (100) Facets: Structure and Polarity Compensation. <i>Advanced Materials Interfaces</i> , 2014, 1, 1400404. | 3.7 | 49 |
| 40 | Interaction of Water with the CaO(001) Surface. <i>Journal of Physical Chemistry C</i> , 2016, 120, 5565-5576. | 3.1 | 49 |
| 41 | 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, 6729-6733. | 2.8 | 46 |
| 42 | Growth and Morphology of Calcium-Oxide Films Grown on Mo(001). <i>Journal of Physical Chemistry C</i> , 2011, 115, 8784-8789. | 3.1 | 45 |
| 43 | STM Luminescence Spectroscopy of Intrinsic Defects in ZnO(0001) Thin Films. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3972-3976. | 4.6 | 45 |
| 44 | Activating Nonreducible Oxides via Doping. <i>Accounts of Chemical Research</i> , 2015, 48, 1532-1539. | 15.6 | 45 |
| 45 | Interaction of CO molecules with surface state electrons on Ag(111). <i>Surface Science</i> , 2005, 590, L253-L258. | 1.9 | 42 |
| 46 | Localized Molecular Constraint on Electron Delocalization in a Metallic Chain. <i>Physical Review Letters</i> , 2003, 90, 186102. | 7.8 | 41 |
| 47 | On energy transfer processes at cluster-oxide interfaces: silver on titania. <i>Chemical Physics Letters</i> , 2001, 349, 351-357. | 2.6 | 40 |
| 48 | Experiments on individual alumina-supported adatoms and clusters. <i>Progress in Surface Science</i> , 2001, 67, 99-121. | 8.3 | 40 |
| 49 | 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. | 3.1 | 39 |
| 50 | 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 | 38 |
| 51 | Absolute Surface Step Energies: Accurate Theoretical Methods Applied to Ceria Nanoislands. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1956-1961. | 4.6 | 38 |
| 52 | Morphology and Luminescence of ZnO Films Grown on a Au(111) Support. <i>Journal of Physical Chemistry C</i> , 2013, 117, 10552-10557. | 3.1 | 38 |
| 53 | Competition between Polar and Nonpolar Growth of MgO Thin Films on Au(111). <i>Journal of Physical Chemistry C</i> , 2011, 115, 23043-23049. | 3.1 | 36 |
| 54 | Gold Adsorption on CeO ₂ Thin Films Grown on Ru(0001). <i>Journal of Physical Chemistry C</i> , 2013, 117, 21879-21885. | 3.1 | 36 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 55 | Luminescence Properties of Nitrogen-Doped ZnO. Journal of Physical Chemistry C, 2014, 118, 13693-13696. | 3.1 | 36 |
| 56 | Defect-induced gap states in Al ₂ O ₃ thin films on NiAl(110). Physical Review B, 2004, 69, . | 3.2 | 35 |
| 57 | Self-Assembly of MgPc Molecules on Polar FeO Thin Films. Journal of Physical Chemistry C, 2008, 112, 15325-15328. | 3.1 | 34 |
| 58 | Strain-induced formation of ultrathin mixed-oxide films. Physical Review B, 2011, 83, . | 3.2 | 34 |
| 59 | Li/Mo Codoping of CaO Films: A Means to Tailor the Equilibrium Shape of Au Deposits. Journal of the American Chemical Society, 2012, 134, 2532-2534. | 13.7 | 34 |
| 60 | Palladium Monomers, Dimers, and Trimers on the MgO(001) Surface Viewed Individually. Angewandte Chemie - International Edition, 2007, 46, 8703-8706. | 13.8 | 32 |
| 61 | Local band gap modulations in non-stoichiometric $\sqrt{2} \times \sqrt{2}$ films probed by scanning tunneling spectroscopy. Physical Review B, 2008, 77, . | 3.2 | 32 |
| 62 | Electronic properties and charge state of gold monomers and chains adsorbed on alumina thin films on NiAl(110). Physical Review B, 2010, 81, . | 3.2 | 32 |
| 63 | Evidence for a Size-Selective Adsorption Mechanism on Oxide Surfaces: Pd and Au atoms on SiO ₂ /Mo(112). ChemPhysChem, 2008, 9, 1367-1370. | 2.1 | 31 |
| 64 | Growth and Surface Properties of Cuprous Oxide Films on Au(111). Journal of Physical Chemistry C, 2015, 119, 5975-5981. | 3.1 | 31 |
| 65 | Tailoring electronic properties of atomic chains assembled by STM. Applied Physics A: Materials Science and Processing, 2005, 80, 951-956. | 2.3 | 30 |
| 66 | Photon emission spectroscopy of thin MgO films with the STM: from a tip-mediated to an intrinsic emission characteristic. New Journal of Physics, 2008, 10, 013010. | 2.9 | 30 |
| 67 | Change of the surface electronic structure of Au(111) by a monolayer MgO(001) film. Physical Review B, 2011, 84, . | 3.2 | 30 |
| 68 | Adsorption of Au and Pd Atoms on Thin SiO ₂ Films: the Role of Atomic Structure. Journal of Physical Chemistry C, 2008, 112, 3405-3409. | 3.1 | 29 |
| 69 | Quantization of electronic states in individual oxide-supported silver particles. Surface Science, 2004, 572, 347-354. | 1.9 | 28 |
| 70 | Probing the 4f states of ceria by tunneling spectroscopy. Physical Chemistry Chemical Physics, 2011, 13, 12646. | 2.8 | 28 |
| 71 | Innovative Measurement Techniques in Surface Science. ChemPhysChem, 2011, 12, 79-87. | 2.1 | 28 |
| 72 | Crossover from two- to three-dimensional gold particle shapes on CaO films of different thicknesses. Physical Review B, 2012, 85, . | 3.2 | 28 |

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| 73 | Photon emission from individual supported gold clusters: thin film versus bulk oxide. Surface Science, 2001, 478, L327-L332. | 1.9 | 27 |
| 74 | Realization of a Particle-in-a-Box: An Electron in an Atomic Pd Chain. Journal of Physical Chemistry B, 2005, 109, 20657-20660. | 2.6 | 27 |
| 75 | Model studies on heterogeneous catalysts at the atomic scale: From supported metal particles to two-dimensional zeolites. Journal of Catalysis, 2013, 308, 154-167. | 6.2 | 27 |
| 76 | Single molecule vibrational and electronic analyses of the formation of inorganic complexes: CO bonding to Au and Ag atoms on NiAl(110). Journal of Chemical Physics, 2003, 119, 2296-2300. | 3.0 | 26 |
| 77 | Photon mapping of individual Ag particles on MgO/Mo(001). Physical Review B, 2011, 83, . | 3.2 | 26 |
| 78 | Electron quantization in arbitrarily shaped gold islands on MgO thin films. Physical Review B, 2013, 88, . | 3.2 | 26 |
| 79 | Formation of Water Chains on CaO(001): What Drives the 1D Growth?. Journal of Physical Chemistry Letters, 2015, 6, 1204-1208. | 4.6 | 26 |
| 80 | Oxidation of polycrystalline copper films – Pressure and temperature dependence. Thin Solid Films, 2018, 651, 24-30. | 1.8 | 26 |
| 81 | Realization of an atomic sieve: Silica on Mo(112). Surface Science, 2009, 603, 1145-1149. | 1.9 | 25 |
| 82 | Molecular Adsorption Changes the Quantum Structure of Oxide-Supported Gold Nanoparticles: Chemisorption versus Physisorption. Physical Review Letters, 2015, 115, 036804. | 7.8 | 25 |
| 83 | Diffusion Barriers Block Defect Occupation on Reduced CeO_2 Nanoparticles. Physical Review Letters, 2015, 115, 036804. | 7.8 | 25 |
| 84 | Steering the Growth of Metal Adatoms via Interface Interactions Between a MgO Thin Film and a Mo Support. Advanced Functional Materials, 2013, 23, 75-80. | 14.9 | 24 |
| 85 | Controlling the charge state of single Mo dopants in a CaO film. Physical Review B, 2013, 88, . | 3.2 | 24 |
| 86 | Photon mapping of MgO thin films with an STM. Surface Science, 2007, 601, L55-L58. | 1.9 | 23 |
| 87 | Growth of thin alumina films on a vicinal NiAl surface. Surface Science, 2007, 601, 4603-4607. | 1.9 | 23 |
| 88 | Probing the electronic properties and charge state of gold nanoparticles on ultrathin MgO versus thick doped CaO films. Physical Review B, 2015, 92, . | 3.2 | 23 |
| 89 | Manganese Oxide Thin Films on Au(111): Growth Competition between Mn_3O_4 and MnO . Journal of Physical Chemistry C, 2019, 123, 7665-7672. | 3.1 | 23 |
| 90 | Structural and electronic characterization of the MgO/Mo(001) interface using STM. Surface Science, 2010, 604, 435-441. | 1.9 | 22 |

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| 91 | CO Adsorption on Thin MgO Films and Single Au Adatoms: A Scanning Tunneling Microscopy Study. Journal of Physical Chemistry C, 2010, 114, 8997-9001. | 3.1 | 22 |
| 92 | Temperature-dependent phase evolution of copper-oxide thin-films on Au(111). Physical Chemistry Chemical Physics, 2018, 20, 5636-5643. | 2.8 | 22 |
| 93 | Modifying the Adsorption Characteristic of Inert Silica Films by Inserting Anchoring Sites. Physical Review Letters, 2009, 102, 016102. | 7.8 | 21 |
| 94 | Lithium incorporation into a silica thin film: Scanning tunneling microscopy and density functional theory. Physical Review B, 2009, 80, . | 3.2 | 21 |
| 95 | Growth and morphology of metal particles on MgO/Mo(001): A comparative STM and diffraction study. Physical Review B, 2011, 83, . | 3.2 | 20 |
| 96 | Probing the properties of metal-oxide interfaces: silica films on Mo and Ru supports. Journal of Physics Condensed Matter, 2012, 24, 354010. | 1.8 | 20 |
| 97 | Electronic and electrostatic properties of polar oxide nanostructures: MgO(111) islands on Au(111). Physical Review B, 2012, 86, . | 3.2 | 20 |
| 98 | Defect complexes in Li-doped MgO. Physical Review B, 2015, 91, . | 3.2 | 20 |
| 99 | Vibrational spectroscopy and imaging of single molecules: Bonding of CO to single palladium atoms on NiAl(110). Journal of Chemical Physics, 2002, 117, 10947-10952. | 3.0 | 19 |
| 100 | Surface defects and their impact on the electronic structure of Mo-doped CaO films: an STM and DFT study. Physical Chemistry Chemical Physics, 2014, 16, 12764-12772. | 2.8 | 19 |
| 101 | Photon emission spectroscopy of NiAl(110) in the scanning tunneling microscope. Physical Review B, 2000, 61, 12682-12685. | 3.2 | 18 |
| 102 | Nanopyramidal Reconstruction of Cu ₂ O(111): A Long-Standing Surface Puzzle Solved by STM and DFT. Journal of Physical Chemistry C, 2020, 124, 26937-26943. | 3.1 | 17 |
| 103 | Building Alloys from Single Atoms: Au-Pd Chains on NiAl(110). Journal of Physical Chemistry B, 2004, 108, 14616-14619. | 2.6 | 16 |
| 104 | Substrate-mediated interaction and electron-induced diffusion of single lithium atoms on Ag(001). Physical Review B, 2007, 75, . | 3.2 | 16 |
| 105 | Nucleation of gold atoms on vanadyl-terminated V ₂ O ₃ (0001). New Journal of Physics, 2009, 11, 093007. | 2.9 | 16 |
| 106 | Stabilizing Gold Adatoms by Thiophenyl Derivatives: A Possible Route toward Metal Redispersion. Journal of the American Chemical Society, 2012, 134, 11161-11167. | 13.7 | 16 |
| 107 | Water Adsorption on Cu ₂ O(111) Surfaces: A Scanning Tunneling Microscopy Study. Journal of Physical Chemistry C, 2017, 121, 20877-20881. | 3.1 | 16 |
| 108 | Light emission spectroscopy of self-assembled arrays of silver nano-crystals with the STM. Chemical Physics Letters, 2005, 413, 10-15. | 2.6 | 15 |

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| 109 | 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. | 3.1 | 15 |
| 110 | Chromium-Doped MgO Thin Films: Morphology, Electronic Structure, and Segregation Effects. <i>Journal of Physical Chemistry C</i> , 2015, 119, 25469-25475. | 3.1 | 14 |
| 111 | Dopant-Induced Diffusion Processes at Metal-Oxide Interfaces Studied for Iron- and Chromium-Doped MgO/Mo(001) Model Systems. <i>Journal of Physical Chemistry C</i> , 2016, 120, 13604-13609. | 3.1 | 14 |
| 112 | In-situ optical view onto copper oxidation – role of reactive interfaces and self-heating. <i>Corrosion Science</i> , 2019, 159, 108112. | 6.6 | 14 |
| 113 | Growth of Two-Dimensional Lithium Islands on CaO(001) Thin Films. <i>Journal of Physical Chemistry C</i> , 2012, 116, 17980-17984. | 3.1 | 13 |
| 114 | Spontaneous Oxidation of Mg Atoms at Defect Sites in an MgO Surface. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3684-3687. | 3.1 | 12 |
| 115 | Phonon-Mediated Electron Transport through CaO Thin Films. <i>Physical Review Letters</i> , 2015, 114, 016804. | 7.8 | 12 |
| 116 | Interaction of water with oxide thin film model systems. <i>Journal of Materials Research</i> , 2019, 34, 360-378. | 2.6 | 12 |
| 117 | Stabilizing Monomeric Iron Species in a Porous Silica/Mo(112) Film. <i>ACS Nano</i> , 2010, 4, 863-868. | 14.6 | 11 |
| 118 | Water Adsorption to Crystalline Cu ₂ O Thin Films: Structural and Vibrational Properties. <i>Journal of Physical Chemistry C</i> , 2018, 122, 2195-2199. | 3.1 | 11 |
| 119 | Copper Oxidation on Pt(111) – More than a Surface Oxide?. <i>Journal of Physical Chemistry C</i> , 2019, 123, 26939-26946. | 3.1 | 11 |
| 120 | Adsorption of Single Magnesium Phthalocyanine Molecules on V ₂ O ₃ Thin Films. <i>Journal of Physical Chemistry C</i> , 2008, 112, 10027-10031. | 3.1 | 10 |
| 121 | Charge competition with oxygen molecules determines the growth of gold particles on doped CaO films. <i>Faraday Discussions</i> , 2013, 162, 153. | 3.2 | 10 |
| 122 | Model Studies on Heterogeneous Catalysts at the Atomic Scale. <i>Topics in Catalysis</i> , 2014, 57, 822-832. | 2.8 | 9 |
| 123 | Morphological and Kinetic Insights into Cu ₂ O – CuO Oxidation. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900365. | 1.5 | 9 |
| 124 | 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. | 3.1 | 9 |
| 125 | Growth of Self-Passivating Oxide Layers on Aluminum – Pressure and Temperature Dependence. <i>Physica Status Solidi (B): Basic Research</i> , 2021, 258, 2000559. | 1.5 | 9 |
| 126 | Effect of lattice-gas atoms on the adsorption behaviour of thioether molecules. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 10987. | 2.8 | 8 |

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| 127 | Adsorption of thioether molecules on an alumina thin film. <i>Surface Science</i> , 2014, 628, 111-115. | 1.9 | 8 |
| 128 | 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 | 8 |
| 129 | Effect of electromagnetic interactions on plasmon excitations in silver particle ensembles. <i>Surface Science</i> , 2006, 600, 128-133. | 1.9 | 7 |
| 130 | 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. | 2.3 | 6 |
| 131 | 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 |
| 132 | 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. | 3.1 | 6 |
| 133 | Detailed photoluminescence study of vapor deposited films of different surface morphology. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 2247-2256. | 1.5 | 6 |
| 134 | Impact of Granularity on the Oxidation Kinetics of Copper. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900778. | 1.5 | 6 |
| 135 | Autocatalytic growth of ZnO nanorods from flat Au(111)-supported ZnO films. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 26741-26745. | 2.8 | 5 |
| 136 | Ag/ZnO hybrid systems studied with scanning tunnelling microscopy-based luminescence spectroscopy. <i>Journal of Applied Physics</i> , 2016, 119, . | 2.5 | 5 |
| 137 | Gold/Isophorone Interaction Driven by Keto/Enol Tautomerization. <i>Journal of Physical Chemistry C</i> , 2016, 120, 21962-21966. | 3.1 | 5 |
| 138 | Empty Valence Band Pocket in p-type Cu ₂ O(111) Probed with Scanning Tunneling Spectroscopy. <i>Physica Status Solidi (B): Basic Research</i> , 0, , 2100337. | 1.5 | 5 |
| 139 | From Single Atoms to One-Dimensional Solids: Artificial Gold Chains on NiAl(110). <i>Japanese Journal of Applied Physics</i> , 2003, 42, 4790-4794. | 1.5 | 4 |
| 140 | Lithium-molybdate nanostructures grown on the Mo(001) surface. <i>Surface Science</i> , 2013, 609, 78-84. | 1.9 | 4 |
| 141 | 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. | 3.1 | 4 |
| 142 | Adsorption of squaraine molecules to Au(111) and Ag(001) surfaces. <i>Journal of Chemical Physics</i> , 2018, 148, 074702. | 3.0 | 4 |
| 143 | Growth and characterization of Ca ²⁺ Mo mixed oxide films on Mo(001). <i>Journal of Chemical Physics</i> , 2019, 151, 234708. | 3.0 | 4 |
| 144 | Photoluminescence of Squaraine Thin Films: Spatial Homogeneity and Temperature Dependence. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800450. | 1.5 | 4 |

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| 145 | 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. | 2.8 | 4 |
| 146 | Core-level binding energy shifts between interior, terrace and edge atoms in MnO(001) thin films. <i>Surface Science</i> , 2022, 725, 122159. | 1.9 | 4 |
| 147 | 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. | 4.6 | 3 |
| 148 | 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. | 3.1 | 3 |
| 149 | Copper oxide phases probed via plasmonic light emission in the STM. <i>New Journal of Physics</i> , 2021, 23, 093021. | 2.9 | 3 |
| 150 | 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. | 3.1 | 2 |
| 151 | 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. | 3.1 | 2 |
| 152 | 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 | 2 |
| 153 | Termination-dependent electronic structure and atomic-scale screening behavior of the Cu ₂ O(111) surface. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 484001. | 1.8 | 2 |
| 154 | Two-Dimensional Oxide Alloys Probed at the Atomic Level: (V,Fe) ₂ O ₃ Honeycomb Monolayers on Pt(111). <i>Journal of Physical Chemistry C</i> , 2022, 126, 5070-5078. | 3.1 | 2 |
| 155 | Metal Nanoparticles: Steering the Growth of Metal Adatoms via Interface Interactions Between a MgO Thin Film and a Mo Support (<i>Adv. Funct. Mater.</i> 1/2013). <i>Advanced Functional Materials</i> , 2013, 23, 136-136. | 14.9 | 1 |
| 156 | Oxygen Vacancies in the CeO ₂ (111) Surface and Their Relevance for Adsorption Processes. , 2018, , 182-188. | | 1 |
| 157 | Tungsten deposits facilitate oxidation of the NiAl(110) surface. <i>Journal of Chemical Physics</i> , 2019, 150, 124701. | 3.0 | 1 |
| 158 | Laser stimulation of MoSe_2 an STM junction: Photoinduced versus thermally induced current response. <i>Physical Review B</i> , 2021, 103, . | 3.2 | 1 |
| 159 | Thin Oxide Films as Model Systems for Heterogeneous Catalysts. <i>Springer Handbooks</i> , 2020, , 267-328. | 0.6 | 1 |
| 160 | Avoiding arbitrarily wrong microluminescence statistics due to a non-quantitatively calibrated setup. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1600761. | 1.5 | 0 |
| 161 | A fiber scanning tunneling microscope for optical analysis at the nanoscale. <i>Review of Scientific Instruments</i> , 2020, 91, 073110. | 1.3 | 0 |