

Mika Hirsimäki

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

850
citations

430874

18
h-index

477307

29
g-index

42
all docs

42
docs citations

42
times ranked

1079
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Oxygen adsorption-induced nanostructures and island formation on Cu{100}: Bridging the gap between the formation of surface confined oxygen chemisorption layer and oxide formation. Journal of Chemical Physics, 2008, 129, 124703. | 3.0 | 74 |
| 2 | Reversible Photodoping of TiO ₂ Nanoparticles for Photochromic Applications. Chemistry of Materials, 2018, 30, 8968-8974. | 6.7 | 69 |
| 3 | Nanoscale oxidation of Cu(100): Oxide morphology and surface reactivity. Journal of Chemical Physics, 2007, 126, 034703. | 3.0 | 52 |
| 4 | Investigation of the role of oxygen induced segregation of Cu during Cu ₂ O formation on Cu{100}, Ag/Cu{100} and Cu(Ag) alloy. Surface Science, 2005, 583, 157-165. | 1.9 | 51 |
| 5 | Effect of surface hydroxyl concentration on the bonding and morphology of aminopropylsilane thin films on austenitic stainless steel. Surface and Interface Analysis, 2010, 42, 157-164. | 1.8 | 43 |
| 6 | Adsorption and thermal behavior of CO and NO on Pd{110} and Pd{320}. Journal of Chemical Physics, 2001, 114, 2345-2354. | 3.0 | 35 |
| 7 | Adsorption, desorption and surface reactions of CO and NO on Pd{320}. Surface Science, 1998, 402-404, 187-191. | 1.9 | 33 |
| 8 | Instrumentation and analytical methods of an x-ray photoelectron spectroscopy-scanning tunneling microscopy surface analysis system for studying nanostructured materials. Review of Scientific Instruments, 2006, 77, 083901. | 1.3 | 33 |
| 9 | Adsorption and diffusion dynamics of atomic and molecular oxygen on reconstructed Cu(100). Physical Review B, 2007, 75, . | 3.2 | 31 |
| 10 | Influence of minor alloying elements on the initial stages of oxidation of austenitic stainless steel materials. Surface and Interface Analysis, 2008, 40, 1149-1156. | 1.8 | 31 |
| 11 | Effect of cobalt doping and annealing on properties of titania thin films prepared by sol-gel process. Applied Surface Science, 2011, 257, 6897-6907. | 6.1 | 31 |
| 12 | Performance and characterization of the FinEstBeAMS beamline at the MAXIV Laboratory. Journal of Synchrotron Radiation, 2021, 28, 1620-1630. | 2.4 | 28 |
| 13 | Morphology and composition of nanoscale surface oxides on Fe ₂₀ Cr ₁₈ Ni{111} austenitic stainless steel. Journal of Electron Spectroscopy and Related Phenomena, 2007, 154, 69-78. | 1.7 | 25 |
| 14 | In Situ XPS Studies of Electrochemically Negatively Polarized Molybdenum Carbide Derived Carbon Double Layer Capacitor Electrode. Journal of the Electrochemical Society, 2013, 160, A1084-A1093. | 2.9 | 25 |
| 15 | INFLUENCE OF SURFACE MODIFICATION ON THE ADSORPTION DYNAMICS OF O ₂ ON Cu{100}. Surface Review and Letters, 2004, 11, 457-461. | 1.1 | 23 |
| 16 | Improved antifouling properties and selective biofunctionalization of stainless steel by employing heterobifunctional silane-polyethylene glycol overlayers and avidin-biotin technology. Scientific Reports, 2016, 6, 29324. | 3.3 | 21 |
| 17 | Inhibition of initial surface oxidation by strongly bound hydroxyl species and Cr segregation: H ₂ O and O ₂ adsorption on Fe ₁₇ Cr. Surface Science, 2009, 603, 3005-3010. | 1.9 | 20 |
| 18 | Strong, Rapid, and Reversible Photochromic Response of Nb Doped TiO ₂ Nanocrystal Colloids in Hole Scavenging Media. ACS Applied Materials & Interfaces, 2020, 12, 57609-57618. | 8.0 | 20 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Adsorption structure and bonding of trimesic acid on Cu(100). Surface Science, 2011, 605, 1968-1978. | 1.9 | 18 |
| 20 | Multilayer relaxation of the Pd(320) surface. Surface Science, 2000, 454-456, 6-10. | 1.9 | 17 |
| 21 | Effects of steps and defects on O ₂ dissociation on clean and modified Cu(1 0 0). Surface Science, 2003, 538, 233-239. | 1.9 | 17 |
| 22 | Influence of CrN surface compound on the initial stages of high temperature oxidation of ferritic stainless steel. Applied Surface Science, 2011, 257, 7783-7791. | 6.1 | 17 |
| 23 | Adsorption dynamics of O ₂ on Cu(1 0 0): The role of vacancies, steps and adatoms in dissociative chemisorption of O ₂ . Chemical Physics Letters, 2008, 456, 211-214. | 2.6 | 16 |
| 24 | Role of translational and vibrational energy in the dissociative chemisorption of methane on Pd{1 1 0}. Surface Science, 2001, 482-485, 171-176. | 1.9 | 14 |
| 25 | Molecularly chemisorbed intermediate state to oxygen adsorption on Pd{110}. Surface Science, 2003, 546, L797-L802. | 1.9 | 14 |
| 26 | Controlling the synergetic effects in (3-aminopropyl) trimethoxysilane and (3-mercaptopropyl) trimethoxysilane coadsorption on stainless steel surfaces. Applied Surface Science, 2014, 317, 856-866. | 6.1 | 14 |
| 27 | Oxidation-induced nanostructures on Cu{100}, Cu(Ag) and Ag/Cu{100} studied by photoelectron spectroscopy. Surface and Interface Analysis, 2007, 39, 359-366. | 1.8 | 13 |
| 28 | Effect of different annealing temperatures and SiO ₂ /Si(100) substrate on the properties of nickel containing titania thin sol-gel films. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 953-965. | 1.8 | 10 |
| 29 | Insulating properties of ultrathin KF layers on Cu(100): Resonant Auger spectroscopy. Surface Science, 2005, 584, 49-54. | 1.9 | 8 |
| 30 | Kinetic hindrance during the surface oxidation of Cu(100)-Ag. Journal of Chemical Physics, 2008, 129, 194707. | 3.0 | 7 |
| 31 | Substrate-induced effects in the creation and decay of potassium 2p core excitations in ultrathin films of KCl on copper. Journal of Physics Condensed Matter, 2008, 20, 145206. | 1.8 | 6 |
| 32 | Electron spectroscopic study of passive oxide layer formation on Fe-Cr-Ni-Al-Ti austenitic stainless steel. Journal of Electron Spectroscopy and Related Phenomena, 2010, 182, 108-114. | 1.7 | 6 |
| 33 | Biofunctional hybrid materials: bimolecular organosilane monolayers on FeCr alloys. Nanotechnology, 2014, 25, 435603. | 2.6 | 6 |
| 34 | Displacement of chemisorbed ¹² CO from Pd{110} by adsorbing hot precursor ¹³ CO molecules. Physical Review B, 2004, 69, . | 3.2 | 4 |
| 35 | UPS and DFT investigation of the electronic structure of gas-phase trimesic acid. Journal of Electron Spectroscopy and Related Phenomena, 2016, 213, 11-16. | 1.7 | 4 |
| 36 | Energy dependent transient reaction kinetics of CO oxidation on Pd{1 1 0}. Surface Science, 2001, 482-485, 147-152. | 1.9 | 3 |

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|----|--|-----|-----------|
| 37 | Adsorption dynamics of CO on Pd(110): energy dependence, structure insensitivity and the role of the surface electronic structure. <i>Chemical Physics Letters</i> , 2003, 370, 247-253. | 2.6 | 3 |
| 38 | Multilayer relaxation of Pd{320} surface by quantitative LEED revisited. <i>Surface Science</i> , 2004, 566-568, 24-28. | 1.9 | 3 |
| 39 | Ag/Cu(100) Surface Alloy and Polycrystalline Cu(Ag) Alloy Studied by XPS. <i>Surface Science Spectra</i> , 2008, 15, 31-40. | 1.3 | 2 |
| 40 | Investigation of the structural anisotropy in a self-assembling glycinate layer on Cu(100) by scanning tunneling microscopy and density functional theory calculations. <i>Applied Surface Science</i> , 2017, 409, 111-116. | 6.1 | 1 |
| 41 | Substrate-induced effects in the creation and decay of core excitations in ultrathin films of potassium chloride on copper. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2007, 156-158, 294-298. | 1.7 | 0 |