

# 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	Performance and characterization of the FinEstBeAMS beamline at the MAXÅIV Laboratory. <i>Journal of Synchrotron Radiation</i> , 2021, 28, 1620-1630.	2.4	28
2	Strong, Rapid, and Reversible Photochromic Response of Nb Doped TiO <sub>2</sub> Nanocrystal Colloids in Hole Scavenging Media. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 57609-57618.	8.0	20
3	Reversible Photodoping of TiO <sub>2</sub> Nanoparticles for Photochromic Applications. <i>Chemistry of Materials</i> , 2018, 30, 8968-8974.	6.7	69
4	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
5	UPS and DFT investigation of the electronic structure of gas-phase trimesic acid. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2016, 213, 11-16.	1.7	4
6	Improved antifouling properties and selective biofunctionalization of stainless steel by employing heterobifunctional silane-polyethylene glycol overlayers and avidin-biotin technology. <i>Scientific Reports</i> , 2016, 6, 29324.	3.3	21
7	Biofunctional hybrid materials: bimolecular organosilane monolayers on FeCr alloys. <i>Nanotechnology</i> , 2014, 25, 435603.	2.6	6
8	Controlling the synergetic effects in (3-aminopropyl) trimethoxysilane and (3-mercaptopropyl) trimethoxysilane coadsorption on stainless steel surfaces. <i>Applied Surface Science</i> , 2014, 317, 856-866.	6.1	14
9	In Situ XPS Studies of Electrochemically Negatively Polarized Molybdenum Carbide Derived Carbon Double Layer Capacitor Electrode. <i>Journal of the Electrochemical Society</i> , 2013, 160, A1084-A1093.	2.9	25
10	Effect of different annealing temperatures and SiO <sub>2</sub> /Si(100) substrate on the properties of nickel containing titania thin sol-gel films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 953-965.	1.8	10
11	Adsorption structure and bonding of trimesic acid on Cu(100). <i>Surface Science</i> , 2011, 605, 1968-1978.	1.9	18
12	Influence of CrN surface compound on the initial stages of high temperature oxidation of ferritic stainless steel. <i>Applied Surface Science</i> , 2011, 257, 7783-7791.	6.1	17
13	Effect of cobalt doping and annealing on properties of titania thin films prepared by sol-gel process. <i>Applied Surface Science</i> , 2011, 257, 6897-6907.	6.1	31
14	Electron spectroscopic study of passive oxide layer formation on Fe-19Cr-18Ni-1Al-TiC austenitic stainless steel. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2010, 182, 108-114.	1.7	6
15	Effect of surface hydroxyl concentration on the bonding and morphology of aminopropylsilane thin films on austenitic stainless steel. <i>Surface and Interface Analysis</i> , 2010, 42, 157-164.	1.8	43
16	Inhibition of initial surface oxidation by strongly bound hydroxyl species and Cr segregation: H <sub>2</sub> O and O <sub>2</sub> adsorption on Fe-17Cr. <i>Surface Science</i> , 2009, 603, 3005-3010.	1.9	20
17	Influence of minor alloying elements on the initial stages of oxidation of austenitic stainless steel materials. <i>Surface and Interface Analysis</i> , 2008, 40, 1149-1156.	1.8	31
18	Adsorption dynamics of O <sub>2</sub> on Cu(1 0 0): The role of vacancies, steps and adatoms in dissociative chemisorption of O <sub>2</sub> . <i>Chemical Physics Letters</i> , 2008, 456, 211-214.	2.6	16

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19	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
20	Kinetic hindrance during the surface oxidation of Cu(100)â€“c(10Å–2)-Ag. Journal of Chemical Physics, 2008, 129, 194707.	3.0	7
21	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
22	Ag/Cu(100) Surface Alloy and Polycrystalline Cu(Ag) Alloy Studied by XPS. Surface Science Spectra, 2008, 15, 31-40.	1.3	2
23	Adsorption and diffusion dynamics of atomic and molecular oxygen on reconstructed Cu(100). Physical Review B, 2007, 75, .	3.2	31
24	Nanoscale oxidation of Cu(100): Oxide morphology and surface reactivity. Journal of Chemical Physics, 2007, 126, 034703.	3.0	52
25	Substrate-induced effects in the creation and decay of core excitations in ultrathin films of potassium chloride on copper. Journal of Electron Spectroscopy and Related Phenomena, 2007, 156-158, 294-298.	1.7	0
26	Morphology and composition of nanoscale surface oxides on Feâ€“20Crâ€“18Ni{111} austenitic stainless steel. Journal of Electron Spectroscopy and Related Phenomena, 2007, 154, 69-78.	1.7	25
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	Instrumentation and analytical methods of an x-ray photoelectron spectroscopyâ€“scanning tunneling microscopy surface analysis system for studying nanostructured materials. Review of Scientific Instruments, 2006, 77, 083901.	1.3	33
29	Insulating properties of ultrathin KF layers on Cu(100): Resonant Auger spectroscopy. Surface Science, 2005, 584, 49-54.	1.9	8
30	Investigation of the role of oxygen induced segregation of Cu during Cu <sub>2</sub> O formation on Cu{100}, Ag/Cu{100} and Cu(Ag) alloy. Surface Science, 2005, 583, 157-165.	1.9	51
31	Displacement of chemisorbed <sup>12</sup> CO from Pd{110} by adsorbing hot precursor <sup>13</sup> CO molecules. Physical Review B, 2004, 69, .	3.2	4
32	INFLUENCE OF SURFACE MODIFICATION ON THE ADSORPTION DYNAMICS OF O <sub>2</sub> ON Cu{100}. Surface Review and Letters, 2004, 11, 457-461.	1.1	23
33	Multilayer relaxation of Pd{320} surface by quantitative LEED revisited. Surface Science, 2004, 566-568, 24-28.	1.9	3
34	Adsorption dynamics of CO on Pd(110): energy dependence, structure insensitivity and the role of the surface electronic structure. Chemical Physics Letters, 2003, 370, 247-253.	2.6	3
35	Molecularly chemisorbed intermediate state to oxygen adsorption on Pd{110}. Surface Science, 2003, 546, L797-L802.	1.9	14
36	Effects of steps and defects on O <sub>2</sub> dissociation on clean and modified Cu(1 0 0). Surface Science, 2003, 538, 233-239.	1.9	17

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37	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
38	Energy dependent transient reaction kinetics of CO oxidation on Pd{1 1 0}. Surface Science, 2001, 482-485, 147-152.	1.9	3
39	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
40	Multilayer relaxation of the Pd(320) surface. Surface Science, 2000, 454-456, 6-10.	1.9	17
41	Adsorption, desorption and surface reactions of CO and NO on Pd{320}. Surface Science, 1998, 402-404, 187-191.	1.9	33