Harald Ibach

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5898641/publications.pdf Version: 2024-02-01



Нараго Івасн

#	Article	IF	CITATIONS
1	Quantum motion of hydrogen on Ni(100) surfaces. Physical Review B, 2020, 102, .	1.1	1
2	Magnon dispersion in Ni/Co multilayers grown on Cu(100). Physical Review B, 2019, 99, .	1.1	4
3	Quest for magnons in ultrathin nickel films. Physical Review B, 2018, 98, .	1.1	5
4	Repulsive Interactions Induced by Specific Adsorption: Anomalous Step Diffusivity and Inadequacy of Nearest-Neighbor Ising Model (Part II Theory). Surface Science, 2017, 659, 52-57.	0.8	2
5	Electron energy loss spectroscopy with parallel readout of energy and momentum. Review of Scientific Instruments, 2017, 88, 033903.	0.6	14
6	Lifetime and mean free path of spin waves in ultrathin cobalt films. Physical Review B, 2016, 94, .	1.1	12
7	High resolution electron energy loss spectroscopy of spin waves in ultraâ€ŧhin cobalt films. Surface and Interface Analysis, 2016, 48, 1104-1107.	0.8	8
8	Spin waves in ultrathin hexagonal cobalt films on W(110), Cu(111), and Au(111) surfaces. Physical Review B, 2015, 92, .	1.1	18
9	Intensities of surface spin wave excitations in inelastic electron scattering. Physical Review B, 2014, 89, .	1.1	4
10	Standing Spin Waves in Ultrathin Magnetic Films: A Method to Test for Layer-Dependent Exchange Coupling. Physical Review Letters, 2014, 112, 127202.	2.9	18
11	High resolution electron energy loss spectroscopy of spin waves in ultra-thin film — The return of the adiabatic approximation?. Surface Science, 2014, 630, 301-310.	0.8	12
12	Large wave vector surface spin waves of the nanomartensitic phase in ultrathin iron films on Cu(100). Europhysics Letters, 2013, 101, 17003.	0.7	11
13	Observation of large wave vector interface spin waves: Ni(100)/fcc Co(100) and Cu(100)/Co(100). Physical Review B, 2013, 87, .	1.1	11
14	Surface spin waves of fcc cobalt films on Cu(100): High-resolution spectra and comparison to theory. Physical Review B, 2012, 86, .	1.1	28
15	Electron energy loss spectroscopy of the vibration modes of water on Ag(100) and Ag(115) surfaces and comparison to Au(100), Au(111) and Au(115). Surface Science, 2012, 606, 1534-1541.	0.8	20
16	Electron energy loss spectrometers: An advanced operation mode for the lens system and the quantitative calculation of solid angle and transmission. Journal of Electron Spectroscopy and Related Phenomena, 2012, 185, 61-70.	0.8	21
17	Electrical and structural properties of stepped, partially reconstructed Au(11n) surfaces in HClO4 and H2SO4 electrolytes. Surface Science, 2011, 605, 232-239.	0.8	3
18	Interface capacitance of nano-patterned electrodes. Surface Science, 2011, 605, 240-247.	0.8	2

HARALD IBACH

#	Article	IF	CITATIONS
19	An electron energy loss spectrometer designed for studies of electronic energy losses and spin waves in the large momentum regime. Review of Scientific Instruments, 2011, 82, 123904.	0.6	21
20	Vibration spectroscopy of water on stepped gold surfaces. Surface Science, 2010, 604, 377-385.	0.8	24
21	A simulation of two-dimensional Ostwald ripening on silver electrodes. Electrochimica Acta, 2010, 55, 5411-5413.	2.6	15
22	Anomalous Helmholtz-capacitance on stepped surfaces of silver and gold. Electrochimica Acta, 2009, 54, 4305-4311.	2.6	21
23	Reconstruction on Au(001) vicinal surfaces in UHV and in sulfuric acid solution. Surface Science, 2009, 603, 670-675.	0.8	11
24	Comments on the article entitled "Incompatibility of the Shuttleworth equation with Herman's mathematical structure of thermodynamics―by D.J. Bottomley, Lasse Makkonen and Kari Kolari [Surface Science 603 (2009) 97]. Surface Science, 2009, 603, 2352-2355.	0.8	23
25	Determination of the step dipole moment and the step line tension on Ag(001) electrodes. Electrochimica Acta, 2008, 53, 6818-6823.	2.6	16
26	Measurement of step and kink energies and of the step-edge stiffness from island studies on Pt(111). Physical Review B, 2007, 75, .	1.1	23
27	A novel approach to measure the step line tension and the step dipole moment on vicinal Au(001) electrodes. Surface Science, 2007, 601, 1876-1885.	0.8	22
28	Electron spectrometers for inelastic scattering from magnetic surface excitations. Surface and Interface Analysis, 2006, 38, 1615-1617.	0.8	9
29	The thermodynamics of electrochemical annealing. Surface Science, 2005, 595, 127-137.	0.8	87
30	Adsorbate-induced surface stress and self-assembly of(2×1)Oon Cu(110) measured with an STM. Physical Review B, 2005, 72, .	1.1	14
31	Estimation of the electron-phonon coupling parameter of Mo(110)-H and W(110)-H. Physical Review B, 2004, 69, .	1.1	8
32	Spin-wave excitation observed by spin-polarized electron energy loss spectroscopy: a new method for the investigation of surface- and thin-film spin waves on the atomic scale. Thin Solid Films, 2004, 464-465, 42-47.	0.8	20
33	The relation between the strain-dependence of the heat of adsorption and the coverage dependence of the adsorbate induced surface stress. Surface Science, 2004, 556, 71-77.	0.8	19
34	The instability of vicinal electrode surfaces against step bunching I: Experiment. Surface Science, 2004, 573, 17-23.	0.8	11
35	The instability of vicinal electrode surfaces against step bunching II: Theory. Surface Science, 2004, 573, 24-31.	0.8	14
36	Spin waves in ultrathin Co-films measured by spin polarized electron energy loss spectroscopy. Surface Science, 2004, 566-568, 241-245.	0.8	20

Harald Ibach

#	Article	IF	CITATIONS
37	Island equilibrium shape and shape fluctuations on the reconstructed Au(100) surface. Surface Science, 2004, 564, 201-210.	0.8	10
38	Potential dependence of the step line tension on surfaces in contact with an electrolyte. Journal of Electroanalytical Chemistry, 2003, 544, 13-23.	1.9	22
39	Comment on: "Surface-embedded-atom model of the potential-induced lifting of the reconstruction of Au(100)―by M.I. Haftel and M. Rosen. Surface Science, 2003, 540, 504-507.	0.8	6
40	Steady-state surface stress induced in noble gas sputtering. Thin Solid Films, 2003, 428, 6-10.	0.8	22
41	Spin-Polarized Electron Energy Loss Spectroscopy of High Energy, Large Wave Vector Spin Waves in Ultrathin fcc Co Films on Cu(001). Physical Review Letters, 2003, 91, 147201.	2.9	160
42	A novel spectrometer for spin-polarized electron energy-loss spectroscopy. Review of Scientific Instruments, 2003, 74, 4089-4095.	0.6	50
43	Step Line Tension on a Metal Electrode. Physical Review Letters, 2003, 91, 016106.	2.9	36
44	Localized theory of adsorbate-induced surface stress: Application to the Li/Mo(110) system. Physical Review B, 2002, 66, .	1.1	9
45	Potential dependence of step and kink energies on Au(100) electrodes in sulfuric acid. Faraday Discussions, 2002, 121, 27-42.	1.6	16
46	Anomalies in the phonon dispersion of Mo()/Li—a Kohn anomaly or a stress induced effect?. Surface Science, 2002, 502-503, 417-421.	0.8	3
47	4.4 Surface free energy and surface stress. Landolt-Bâ^šâ^,rnstein - Group III Condensed Matter, 2002, , 303-312.	0.0	8
48	References for 4.4. Landolt-Bâ^šâ^,rnstein - Group III Condensed Matter, 2002, , 346-351.	0.0	0
49	4.4.4 Experimental determination of changes of surface stress due to adsorption - 4.4.5 Calculations of surface free energy and surface stress. Landolt-B√âˆ,rnstein - Group III Condensed Matter, 2002, , 312-319.	0.0	0
50	What does one learn from equilibrium shapes of two-dimensional islands on surfaces?. Surface Science, 2001, 471, 80-100.	0.8	113
51	A finite element analysis of the bending of crystalline plates due to anisotropic surface and film stress applied to magnetoelasticity. Journal of Magnetism and Magnetic Materials, 2001, 231, 74-84.	1.0	36
52	Experimental determination of step energies from island shape fluctuations: A comparison to the equilibrium shape method for Cu(100), Cu(111), and Ag(111). Physical Review B, 2001, 64, .	1.1	59
53	Bending of crystalline plates under the influence of surface stress — a finite element analysis. Surface Science, 2000, 446, 161-173.	0.8	96
54	Novel Method for the Experimental Determination of Step Energies. Physical Review Letters, 1999, 83, 3880-3883.	2.9	57

HARALD IBACH

#	Article	IF	CITATIONS
55	Interlayer Mass Transport and Quantum Confinement of Electronic States. Physical Review Letters, 1999, 82, 3101-3104.	2.9	58
56	Step dynamics on Cu (100) and Ag (111) electrodes in an aqueous electrolyte. Electrochimica Acta, 1999, 45, 527-536.	2.6	35
57	Stress in densely packed adsorbate layers and stress at the solid–liquid interface — is the stress due to repulsive interactions between the adsorbed species?. Electrochimica Acta, 1999, 45, 575-581.	2.6	25
58	Step edge barrier controlled decay of multilayer islands on Cu(111). Surface Science, 1999, 431, 109-115.	0.8	58
59	Substrate surface phonons in the cases of saturated (1×1)H/Mo(110) and p(2×2)O/Mo(110): a critical comparison. Surface Science, 1998, 402-404, 496-501.	0.8	11
60	Decay of Cu adatom islands on Cu(111). Surface Science, 1998, 398, 37-48.	0.8	80
61	Activation energy for the decay of two-dimensional islands on Cu(100). Physical Review B, 1998, 58, R7556-R7559.	1.1	34
62	EELS study of the clean and hydrogen-covered Mo(110) surface. Physical Review B, 1997, 55, 10895-10904.	1.1	54
63	Stress Relief in Reconstruction. Physical Review Letters, 1997, 78, 4225-4228.	2.9	147
64	Surface Self-Diffusion by Vacancy Motion: Island Ripening on Cu(001). Physical Review Letters, 1997, 79, 2506-2509.	2.9	144
65	Potential-induced stress in the solid-liquid interface: Au(111) and Au(100) in an HClO4 electrolyte. Surface Science, 1997, 375, 107-119.	0.8	107
66	Step fluctuations on metals in contact with an electrolyte: a new access to dynamical processes at the solid/liquid interface. Surface Science, 1997, 384, 168-178.	0.8	58
67	The role of surface stress in reconstruction, epitaxial growth and stabilization of mesoscopic structures. Surface Science Reports, 1997, 29, 195-263.	3.8	783
68	CO on Ni(100): observation of a high-frequency IR band at 2200 cmâ^'1. Surface Science, 1996, 355, L331-L334.	0.8	9
69	Recent advances in electron energy loss spectroscopy of surface vibrations. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 4771.	1.7	29
70	Dynamical Processes at the Solid / Liquid Interface. Materials Research Society Symposia Proceedings, 1996, 451, 9.	0.1	6
71	Giant Surface Stress in Heteroepitaxial Films: Invalidation of a Classical Rule in Epitaxy. Physical Review Letters, 1996, 77, 127-130.	2.9	91
72	Site occupation of CO adsorbed on Ni(100) at high CO pressures. Surface Science, 1995, 330, L646-L650.	0.8	17

Harald Ibach

#	Article	IF	CITATIONS
73	The growth of cobalt films on vicinal copper surfaces. Surface Science, 1995, 336, 269-279.	0.8	39
74	Adsorbate-induced surface stress and surface reconstruction: oxygen, sulfur and carbon on Ni(111). Surface Science, 1995, 337, 183-189.	0.8	47
75	Hydrogen Covered W(110) Surface: A Hydrogen Liquid with a Propensity for One-Dimensional Order. Physical Review Letters, 1994, 73, 854-857.	2.9	43
76	Adsorbate-induced surface stress: CO on Ni(100) and Ni(111). Surface Science, 1994, 313, 209-214.	0.8	33
77	Electron energy loss spectroscopy: the vibration spectroscopy of surfaces. Surface Science, 1994, 299-300, 116-128.	0.8	61
78	Shear horizontal surface phonons on Ni(110). Journal of Electron Spectroscopy and Related Phenomena, 1993, 64-65, 739-745.	0.8	6
79	Electron energy loss spectroscopy with resolution below 1 meV. Journal of Electron Spectroscopy and Related Phenomena, 1993, 64-65, 819-823.	0.8	73
80	Entropy-controlled site occupation of CO adsorbed on Ni(100). Applied Physics A: Solids and Surfaces, 1993, 57, 499-505.	1.4	17
81	Occupation of adsorption sites controlled by phonon entropy. Physical Review Letters, 1993, 71, 2078-2081.	2.9	36
82	Frizzed appearance of steps in tunnel microscopy on Cu(100) and vicinal Cu(11n) surfaces. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1992, 10, 2597-2599.	0.9	39
83	Magnetic live surface layers in Fe/Cu(100). Physical Review Letters, 1992, 69, 3831-3834.	2.9	471
84	Experimental determination of adsorbate-induced surface stress: Oxygen on Si(111) and Si(100). Physical Review B, 1991, 43, 4263-4267.	1.1	115
85	Electron Energy Loss Spectrometers. Springer Series in Optical Sciences, 1991, , .	0.5	142
86	Hydrogen adsorption and the adsorbate-induced Ni(110) reconstruction- an EELS study. Surface Science, 1989, 208, 113-135.	0.8	87
87	EELS study of the dynamics of clean Ni(100): Surface phonons and surface resonances. Surface Science, 1986, 171, 632-642.	0.8	51
88	Energy Dependence of Inelastic Electron Scattering Cross Section by Surface Vibrations: Experimental Measurement and Theoretical Interpretation. Physical Review Letters, 1985, 54, 1171-1174.	2.9	103
89	The bonding of water molecules to platinum surfaces. Surface Science, 1980, 91, 187-197.	0.8	248
90	The preexponential factor in desorption — CO on Ni(111). Surface Science, 1980, 92, 29-42.	0.8	182

#	Article	IF	CITATIONS
91	CH Vibration Softening and the Dehydrogenation of Hydrocarbon Molecules on Ni(111) and Pt(111). Physical Review Letters, 1978, 40, 1044-1047.	2.9	249
92	Surface Sites of H on W(100). Physical Review Letters, 1976, 36, 1549-1551.	2.9	114
93	Optical Surface Phonons in Zinc Oxide Detected by Slow-Electron Spectroscopy. Physical Review Letters, 1970, 24, 1416-1418.	2.9	342