

Michael Hohage

List of Publications by Year in descending order

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69
papers

2,125
citations

331670

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233421

45
g-index

70
all docs

70
docs citations

70
times ranked

2222
citing authors

#	ARTICLE	IF	CITATIONS
1	Inversion of growth speed anisotropy in two dimensions. Physical Review Letters, 1993, 70, 3943-3946.	7.8	320
2	New Approach for Determination of Diffusion Parameters of Adatoms. Physical Review Letters, 1996, 76, 1304-1307.	7.8	208
3	Origin of oxygen induced layer-by-layer growth in homoepitaxy on Pt(111). Physical Review Letters, 1994, 72, 518-521.	7.8	193
4	Exciton-dominated optical response of ultra-narrow graphene nanoribbons. Nature Communications, 2014, 5, 4253.	12.8	155
5	Pt(111) reconstruction induced by enhanced Pt gas-phase chemical potential. Physical Review Letters, 1993, 70, 1489-1492.	7.8	144
6	Atomic Processes in Low Temperature Pt-Dendrite Growth on Pt(111). Physical Review Letters, 1996, 76, 2366-2369.	7.8	111
7	Pt(111) network reconstruction: structure, growth and decay. Surface Science, 1995, 337, 249-267.	1.9	72
8	Nuclei of the Pt(111) network reconstruction created by single ion impacts. Physical Review Letters, 1994, 72, 1682-1685.	7.8	66
9	Preparation and Characterization of Dense Films of Poly(amidoamine) Dendrimers on Indium Tin Oxide. Langmuir, 2007, 23, 8916-8924.	3.5	50
10	The effect of surface reconstruction on the growth mode in homoepitaxy. Surface Science, 1996, 349, L89-L94.	1.9	49
11	Ab initio reflectance difference spectra of the bare and adsorbate covered Cu(110) surfaces. Physical Review B, 2007, 76, .	3.2	42
12	Enhanced Optical Sensitivity to Adsorption due to Depolarization of Anisotropic Surface States. Physical Review Letters, 2003, 90, 106104.	7.8	40
13	Elastic origin of the O/Cu(110) self-ordering evidenced by GIXD. Surface Science, 2004, 549, 52-66.	1.9	37
14	para-Sexiphenyl thin film growth on Cu(110) and Cu(110)-(2x1)O surfaces. Surface Science, 2006, 600, 762-769.	1.9	36
15	Dense Passivating Poly(ethylene glycol) Films on Indium Tin Oxide Substrates. Langmuir, 2007, 23, 10244-10253.	3.5	34
16	Surface-induced d-band anisotropy on Cu(). Surface Science, 2003, 527, L184-L190.	1.9	29
17	Selective protein and DNA adsorption on PLL-PEG films modulated by ionic strength. Soft Matter, 2009, 5, 613-621.	2.7	29
18	Kinetic Monte Carlo simulation scheme for studying desorption processes. Surface Science, 2000, 454-456, 251-255.	1.9	28

#	ARTICLE	IF	CITATIONS
19	Origin and temperature dependence of the surface optical anisotropy on Cu(110). Surface Science, 2005, 589, 153-163.	1.9	27
20	Oxygen adsorption on Cu(110) at low temperature. Physical Review B, 2007, 76, .	3.2	25
21	Oxygen-induced reconstructions of Cu(110) studied by reflectance difference spectroscopy. Physical Review B, 2004, 69, .	3.2	24
22	Online measurement of the optical anisotropy during the growth of crystalline organic films. Applied Physics Letters, 2006, 88, 121913.	3.3	22
23	Optical anisotropies of metal clusters supported on a birefringent substrate. Physical Review B, 2008, 78, .	3.2	21
24	Direct observation of the CVD growth of monolayer MoS ₂ using in situ optical spectroscopy. Beilstein Journal of Nanotechnology, 2019, 10, 557-564.	2.8	21
25	A rotating-compensator based reflectance difference spectrometer for fast spectroscopic measurements. Review of Scientific Instruments, 2010, 81, 043108.	1.3	20
26	Probing optical excitations in chevron-like armchair graphene nanoribbons. Nanoscale, 2017, 9, 18326-18333.	5.6	19
27	Layer resolved evolution of the optical properties of 1±-sexithiophene thin films. Physical Chemistry Chemical Physics, 2012, 14, 13651.	2.8	16
28	Scattering of surface electrons from CuO stripes on Cu(110). Surface Science, 2008, 602, L1-L4.	1.9	15
29	Revealing the buried interface: para-sexiphenyl thin films grown on TiO ₂ (110). Physical Chemistry Chemical Physics, 2010, 12, 3141.	2.8	15
30	The influence of weak adsorbate-adsorbate interactions on desorption. Chemical Physics Letters, 2003, 369, 275-280.	2.6	14
31	Kinetic Monte Carlo investigation of Xe adsorption and desorption on Pt(111) and Pt(997). Physical Review B, 2002, 65, .	3.2	13
32	Strain Oscillations Probed with Light. Physical Review Letters, 2006, 96, 016105.	7.8	13
33	Stranski-Krastanov growth of para-sexiphenyl on Cu(110)-(2Å-1)O revealed by optical spectroscopy. Physical Chemistry Chemical Physics, 2010, 12, 14706.	2.8	13
34	Reflectance difference spectroscopy – a powerful tool to study adsorption and growth. Applied Physics A: Materials Science and Processing, 2005, 80, 1005-1010.	2.3	12
35	Growth of pentacene on Al ₂ O ₃ studied by in situ optical spectroscopy. Physical Review Materials, 2017, 1, .	2.4	12
36	Growth of cobalt on the nanostructured Cu-CuO() surface. Surface Science, 2002, 512, 185-193.	1.9	11

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37	Optical and structural properties of the pentacene/quartz (0001) interface. Physical Review B, 2016, 93, .	3.2	11
38	Reflectance anisotropy spectroscopy as a tool for mechanical characterization of metallic thin films. Journal Physics D: Applied Physics, 2015, 48, 415303.	2.8	10
39	Initial stage of MBE growth of MoSe ₂ monolayer. Nanotechnology, 2020, 31, 315710.	2.6	10
40	The influence of long-range lateral interactions on the thermodynamics and kinetics of thermal desorption. Chemical Physics Letters, 2003, 379, 568-573.	2.6	9
41	Water adsorbate influence on the Cu(110) surface optical response. Surface Science, 2015, 641, 231-236.	1.9	9
42	Substrate Induced Optical Anisotropy in Monolayer MoS ₂ . Journal of Physical Chemistry C, 2020, 124, 15468-15473.	3.1	9
43	Extremely sharp spin reorientation transition in ultrathin Ni films grown on $\text{Cu}(110)$. Physical Review B, 2009, 79, .	3.2	8
44	Growth and optical properties of Ag clusters deposited on poly(ethylene terephthalate). Nanotechnology, 2011, 22, 275710.	2.6	8
45	Novel Monte Carlo scheme for the simulation of adsorption and desorption processes. Chemical Physics Letters, 2001, 336, 123-128.	2.6	7
46	RDS investigation of adsorption and surface ordering processes on Cu(110). Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 3022-3026.	0.8	6
47	Oxygen chemisorption on Cu(110) studied by spot profile analysis low-energy electron diffraction. Physical Review B, 2007, 76, .	3.2	6
48	Retardation correction for photoelastic modulator-based multichannel reflectance difference spectroscopy. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 1240.	1.5	6
49	In-situ characterization of metal clusters supported on birefringent substrate using reflectance difference spectroscopy. Applied Physics A: Materials Science and Processing, 2010, 98, 499-507.	2.3	6
50	Real-time monitoring of 2D semiconductor film growth with optical spectroscopy. Nanotechnology, 2017, 28, 465601.	2.6	6
51	Inversion of Growth Speed Anisotropy in Two Dimensions. Physical Review Letters, 1993, 71, 1659-1659.	7.8	5
52	Oxygen-induced restructuring of Cu(110) studied by scanning tunneling microscopy. Physical Review B, 2008, 78, .	3.2	5
53	Effect of postgrowth oxygen exposure on the magnetic properties of Ni on the Cu-CuO stripe phase. Physical Review B, 2012, 85, .	3.2	5
54	Effects of laser irradiation on the morphology of Cu(110). Physical Review B, 2008, 78, .	3.2	4

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55	Optical characterization of thin nickel films on polymer substrates using reflectance difference spectroscopy. Journal of Applied Physics, 2009, 105, 123503.	2.5	4
56	Monitoring preparation and phase transitions of carburized W(110) by reflectance difference spectroscopy. Applied Surface Science, 2012, 258, 10123-10127.	6.1	4
57	Optical probe for surface and subsurface defects induced by ion bombardment. Physica Status Solidi - Rapid Research Letters, 2013, 7, 301-304.	2.4	4
58	Reflectance difference spectroscopy of water on Cu(110). Surface Science, 2014, 627, 16-22.	1.9	4
59	Real-time <i>in situ</i> fluorescence study of $\text{W}(110)$ thin film growth on muscovite mica. Physical Review Materials, 2019, 3, .	2.4	4
60	Reflectance difference spectroscopy study of Ag growth on W(110). Surface Science, 2006, 600, L281-L285.	1.9	3
61	Optical characterization of methanol adsorption on the bare and oxygen precovered Cu(110) surface. Surface Science, 2010, 604, 824-828.	1.9	3
62	Magnetic switching in Ni/Cu(110)-(2 \times 1)O induced by CoPc. Journal of Applied Physics, 2019, 125, 142902.	1.9	3
63	Growth oscillation of MoSe ₂ monolayers observed by differential reflectance spectroscopy. Journal of Physics Condensed Matter, 2020, 32, 155001.	1.8	3
64	In situ electromagnet with active cooling for real-time magneto-optic Kerr effect spectroscopy. Review of Scientific Instruments, 2021, 92, 025105.	1.3	2
65	Instabilities and Kinetic Anisotropies as Determining Factors of Island Growth-Shapes. NATO ASI Series Series B: Physics, 1997, , 125-134.	0.2	2
66	Oberflächenphysik: Nanostrukturierte Oberflächen: Anwendungen von Nanostrukturen setzen einfache, reproduzierbare Herstellungsverfahren voraus. Physik Journal, 2000, 56, 33-38.	0.1	1
67	Kinetic Barrier Against Standing Up of Pentacene Molecules Upon a Pentacene Monolayer (Phys. Status Solidi) Tj ETQq1 1 0.784314 rgBT / 0 2.4 1	2.4	1
68	Reflectance and fluorescence spectroscopy of ultrathin PTCDI-C5 films on muscovite mica. Synthetic Metals, 2017, 228, 105-110.	3.9	0
69	Kinetic Barrier Against Standing Up of Pentacene Molecules Upon a Pentacene Monolayer. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800230.	2.4	0