

Michel A Van Hove

List of Publications by Year in descending order

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193
papers

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citations

43973

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195
all docs

195
docs citations

195
times ranked

5714
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemisorption geometry of hydrogen on Ni(111): Order and disorder. Journal of Chemical Physics, 1979, 70, 4168-4184.	1.2	484
2	Low-Energy Electron Diffraction. Springer Series in Surface Sciences, 1986, , .	0.3	409
3	Adsorption of CO on Pd(100). Journal of Chemical Physics, 1980, 73, 2984-2995.	1.2	316
4	Single-Molecule Resolution of an Organometallic Intermediate in a Surface-Supported Ullmann Coupling Reaction. Journal of the American Chemical Society, 2011, 133, 13264-13267.	6.6	277
5	Surface bond angle and bond lengths of rearranged As and Ga atoms on GaAs(110). Physical Review B, 1978, 17, 3303-3309.	1.1	184
6	Multiple scattering of electrons in solids and molecules: A cluster-model approach. Physical Review B, 2001, 63, .	1.1	159
7	Leed intensity analysis of the surface structures of Pd(111) and of CO adsorbed on Pd(111) in a ($\hat{\alpha}^3 \text{ \AA}^{-1}$) Tj ETQq 1,1 0.784314 rgBT (0,8 154	0.8	154
8	Structural Analysis of the Fivefold Symmetric Surface of the Al ₇₀ Pd ₂₁ Mn ₉ Quasicrystal by Low Energy Electron Diffraction. Physical Review Letters, 1997, 78, 467-470.	2.9	154
9	Efficient method for the simulation of STM images. I. Generalized Green-function formalism. Physical Review B, 1997, 56, 15885-15899.	1.1	147
10	Surface structure determination of an oxide film grown on a foreign substrate: Fe ₃ O ₄ multilayer on Pt(111) identified by low energy electron diffraction. Physical Review Letters, 1993, 71, 1848-1851.	2.9	143
11	Quantitative analysis of low-energy-electron diffraction: Application to Pt(111). Physical Review B, 1979, 20, 4789-4806.	1.1	135
12	Molecule-induced displacive reconstruction in a substrate surface: Ethynidyne adsorbed on Rh(111) studied by low-energy-electron diffraction. Physical Review Letters, 1991, 67, 626-628.	2.9	132
13	Fivefold surface of quasicrystalline AlPdMn: Structure determination using low-energy-electron diffraction. Physical Review B, 1998, 57, 7628-7641.	1.1	131
14	Surface structure of coadsorbed benzene and carbon monoxide on the rhodium(III) single crystal analyzed with low energy electron diffraction intensities. Journal of the American Chemical Society, 1986, 108, 2532-2537.	6.6	129
15	Circular Dichroism in K-Shell Ionization from Fixed-in-Space CO and N ₂ Molecules. Physical Review Letters, 2002, 88, 073002.	2.9	126
16	Molecular structure of hydrocarbon monolayers on metal surfaces. The Journal of Physical Chemistry, 1983, 87, 203-213.	2.9	124
17	Electron scattering by atomic chains: Multiple-scattering effects. Physical Review B, 1989, 39, 8275-8283.	1.1	122
18	Monte Carlo simulations of segregation in Pt-Ni catalyst nanoparticles. Journal of Chemical Physics, 2005, 122, 024706.	1.2	116

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19	Structure of the $\sqrt{3}\sqrt{3}$ -R $\sqrt{3}$ -Al ₂ O ₃ (0001) surface from low-energy electron diffraction: $\sqrt{3}\sqrt{3}$ -R $\sqrt{3}$ -Al termination and evidence for anomalously large thermal vibrations. Physical Review B, 2002, 65, .	1.1	115
20	Convergence and reliability of the Rehr-Albers formalism in multiple-scattering calculations of photoelectron diffraction. Physical Review B, 1998, 58, 13121-13131.	1.1	114
21	Chemisorption Bond Length and Binding Location of Oxygen in a $\sqrt{2}\sqrt{2}$ -Overlayer on W(110) Using a Convergent, Perturbative, Low-Energy-Electron-Diffraction Calculation. Physical Review Letters, 1975, 35, 1092-1095.	2.9	112
22	Location of hydrogen adsorbed on palladium (111) studied by low-energy electron diffraction. Physical Review B, 1989, 40, 891-899.	1.1	112
23	Structural analysis of the $\sqrt{2}\sqrt{2}$ -SiC(100)-c($\sqrt{2}\sqrt{2}$) surface reconstruction by automated tensor low-energy electron diffraction. Physical Review B, 1991, 44, 11159-11166.	1.1	111
24	K-shell photoionization of CO and N ₂ : is there a link between the photoelectron angular distribution and the molecular decay dynamics?. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, 3669-3678.	0.6	111
25	Efficient Scheme for Calculation of Low-Energy Electron-Diffraction Intensities in the Presence of Large Superlattices, with Application to the Structural Analysis of Benzene Adsorbed on Rh(111). Physical Review Letters, 1983, 51, 778-781.	2.9	110
26	Multi-Atom Resonant Photoemission: A Method for Determining Near-Neighbor Atomic Identities and Bonding. , 1998, 281, 679-683.		110
27	Mix of Molecular Adsorption Sites Detected for Disordered CO on Pt(111) by Diffuse Low-Energy Electron Diffraction. Physical Review Letters, 1988, 61, 2352-2355.	2.9	108
28	Interlayer interactions in epitaxial oxide growth: FeO on Pt(111). Physical Review B, 1997, 55, R13448-R13451.	1.1	107
29	Optimal Electron Doping of a $\sqrt{2}\sqrt{2}$ -C ₆₀ Monolayer on Cu(111) via Interface Reconstruction. Physical Review Letters, 2010, 104, 036103.	2.9	104
30	LEED intensity analysis of the structure of coadsorbed benzene and CO on Rh(111). Acta Crystallographica Section B: Structural Science, 1987, 43, 368-376.	1.8	93
31	Hollow-site molecular adsorption for NO on Pt(111) and Ni(111): Invalidating vibrational site assignment rules. Physical Review B, 1993, 48, 2859-2861.	1.1	92
32	Determination of Atomic Positions in the $\sqrt{2}\sqrt{2}$ -Oxygen Structure on a Nickel (100) Surface by a Dynamical Low-Energy Electron-Diffraction Method. Physical Review Letters, 1973, 31, 595-598.	2.9	89
33	Surface structures of the two allotropic phases of cobalt. Physical Review B, 1978, 17, 1510-1520.	1.1	89
34	Organic monolayers on transition-metal surfaces: the catalytically important sites. The Journal of Physical Chemistry, 1988, 92, 973-978.	2.9	86
35	Interpretation of diffuse low-energy electron diffraction intensities. Physical Review B, 1985, 31, 1216-1218.	1.1	85
36	Enhanced Reactivity of Ordered Monolayers of Gold on Pt(100) and Platinum on Au(100) Single-Crystal Surfaces. Physical Review Letters, 1980, 45, 1601-1603.	2.9	78

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37	Theoretical study of the termination of the Fe ₃ O ₄ (111) surface. <i>Surface Science</i> , 1999, 443, 133-153.	0.8	78
38	Unified computation scheme of low-energy electron diffraction—the combined-space method. <i>Physical Review B</i> , 1977, 16, 1459-1467.	1.1	72
39	Molecular structure of benzene coadsorbed with carbon monoxide on palladium(111): a dynamical low-energy electron diffraction analysis. <i>The Journal of Physical Chemistry</i> , 1988, 92, 3974-3982.	2.9	65
40	Multiatom resonant photoemission. <i>Physical Review B</i> , 2001, 63, .	1.1	64
41	Monte Carlo simulations of segregation in Pt-Re catalyst nanoparticles. <i>Journal of Chemical Physics</i> , 2004, 121, 5410-5422.	1.2	62
42	Atomic imaging by x-ray-fluorescence holography and electron-emission holography: A comparative theoretical study. <i>Physical Review B</i> , 1994, 50, 11275-11278.	1.1	61
43	Differential Photoelectron Holography: A New Approach for Three-Dimensional Atomic Imaging. <i>Physical Review Letters</i> , 2002, 88, 055504.	2.9	60
44	Efficient determination of multilayer relaxation in the Pt(210) stepped and densely kinked surface. <i>Physical Review Letters</i> , 1991, 67, 1298-1301.	2.9	59
45	Carbon, nitrogen, and sulfur on Ni(111): formation of complex structures and consequences for molecular decomposition. <i>Surface Science</i> , 1993, 296, 25-35.	0.8	58
46	Summary Abstract: Structural analysis of the diamond C(111)- $\sqrt{3}\times\sqrt{3}$ reconstructed surface by low-energy electron diffraction. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1988, 6, 832-833.	0.9	55
47	Stabilizing forces acting on ZnO polar surfaces: STM, LEED, and DFT. <i>Physical Review B</i> , 2014, 89, .	1.1	54
48	Theory of CO adsorption on MgO(100): the influence of intermolecular interactions on the CO orientation. <i>Surface Science</i> , 1996, 346, 283-293.	0.8	52
49	High-energy photoelectron holography for an adsorbate test system: c(2 $\sqrt{3}\times\sqrt{3}$)S on Ni(001). <i>Physical Review Letters</i> , 1993, 70, 595-598.	2.9	50
50	Low-energy electron diffraction study of a disordered monolayer of H ₂ O on Pt(111) and an ordered thin film of ice grown on Pt(111). <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1992, 10, 2521-2528.	0.9	47
51	Dynamical Calculations of Low-Energy Electron Diffraction for Incommensurate Lattice Structures—Xe on Ag(111). <i>Physical Review Letters</i> , 1978, 40, 243-246.	2.9	46
52	Stacking of polycyclic aromatic hydrocarbons as prototype for graphene multilayers, studied using density functional theory augmented with a dispersion term. <i>Journal of Chemical Physics</i> , 2009, 131, 194702.	1.2	46
53	Completion of the structural determination of and rationalization of the surface-structure sequence (2 $\sqrt{3}\times\sqrt{3}$)-(3 $\sqrt{3}\times\sqrt{3}$)-(4 $\sqrt{3}\times\sqrt{3}$) formed on Cu(001) with increasing Li coverage. <i>Physical Review B</i> , 1995, 52, R11658-R11661.	1.1	45
54	Holographic atomic images from surface and bulk W(110) photoelectron diffraction data. <i>Physical Review B</i> , 1999, 59, 5857-5870.	1.1	45

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55	Multiatom Resonant Photoemission: Theory and Systematics. <i>Physical Review Letters</i> , 1999, 82, 4126-4129.	2.9	43
56	Atomic-scale structure of the fivefold surface of an AlPdMn quasicrystal: A quantitative x-ray photoelectron diffraction analysis. <i>Physical Review B</i> , 2004, 69, .	1.1	43
57	Interface Structures of Ordered Fe and Gd Overlayers on W(110) from Photoelectron Diffraction. <i>Physical Review Letters</i> , 1997, 79, 2085-2088.	2.9	42
58	Efficient method for the simulation of STM images. II. Application to clean Rh(111) and Rh(111)+c(4 \times 2) $\sqrt{2}$ S. <i>Physical Review B</i> , 1997, 56, 15900-15918.	1.1	41
59	Using pattern search methods for surface structure determination of nanomaterials. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 8693-8706.	0.7	41
60	Two-dimensional metal-organic coordination networks of Mn-7,7,8,8-tetracyanoquinodimethane assembled on Cu(100): Structural, electronic, and magnetic properties. <i>Physical Review B</i> , 2009, 80, .	1.1	41
61	Survey of structural and electronic properties of C60 on close-packed metal surfaces. <i>Journal of Materials Science</i> , 2012, 47, 7341-7355.	1.7	41
62	Circular dichroism in the angular distribution of core photoelectrons from Si(001): A photoelectron-diffraction analysis. <i>Physical Review B</i> , 1995, 52, 14927-14934.	1.1	38
63	Photoelectron diffraction: A source for magnetic dichroism in angle-resolved photoemission from ferromagnets. <i>Physical Review B</i> , 1998, 57, 14310-14319.	1.1	38
64	Prediction of the effect of the sample biasing in scanning tunneling microscopy and of surface defects on the observed character of the dimers in the Si(001)-(2 \times 1) surface. <i>Physical Review B</i> , 1991, 43, 2058-2062.	1.1	37
65	Energetic and Spatial Bonding Properties from Angular Distributions of Ultraviolet Photoelectrons: Application to the GaAs(110) Surface. <i>Physical Review Letters</i> , 1997, 79, 4681-4684.	2.9	37
66	Circular dichroism in core-level emission from O/W(110): Experiment and theory. <i>Physical Review B</i> , 1998, 58, 9662-9665.	1.1	37
67	Low-Energy Electron-Diffraction Intensity Analysis of a Surface Structure with Three CO Molecules in the Unit Cell, Rh(111)-(2 \times 2)-3CO: Compact Adsorption in Simultaneous Bridge and Nonsymmetric Near-Top Sites. <i>Physical Review Letters</i> , 1983, 50, 903-906.	2.9	35
68	Surface Structures of Cubo-Octahedral Pt \sim Mo Catalyst Nanoparticles from Monte Carlo Simulations. <i>Journal of Physical Chemistry B</i> , 2005, 109, 11683-11692.	1.2	35
69	Photoelectron-diffraction effects and circular dichroism in core-level photoemission. <i>Physical Review B</i> , 1994, 50, 6203-6208.	1.1	34
70	Complex surface alloy formed by Li deposition on Cu(001) determined by dynamical low-energy electron diffraction. <i>Physical Review B</i> , 1995, 51, 1969-1972.	1.1	34
71	Probing buried interfaces with soft x-ray standing wave spectroscopy: application to the Fe/Cr interface. <i>Journal of Physics Condensed Matter</i> , 2002, 14, L407-L420.	0.7	34
72	High-Resolution Model for Noncontact Atomic Force Microscopy with a Flexible Molecule on the Tip Apex. <i>Journal of Physical Chemistry C</i> , 2015, 119, 1483-1488.	1.5	34

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73	From surface science to nanotechnology. <i>Catalysis Today</i> , 2006, 113, 133-140.	2.2	32
74	Atomic-scale structure: From surfaces to nanomaterials. <i>Surface Science</i> , 2009, 603, 1301-1305.	0.8	32
75	Cluster multiple-scattering theory for medium-energy electron diffraction. <i>Physical Review B</i> , 1988, 37, 10475-10486.	1.1	31
76	Cooperative Modulation of Electronic Structures of Aromatic Molecules Coupled to Multiple Metal Contacts. <i>Physical Review Letters</i> , 2013, 110, 046802.	2.9	31
77	Structural determination of the unreconstructed and the reconstructed (110) surfaces of iridium. <i>Journal of Vacuum Science and Technology</i> , 1979, 16, 642-645.	1.9	30
78	Structure of Physisorbed Molecules on an Oxide Surface from Potential Calculations and Dynamical Low-Energy Electron Diffraction Analysis: Acetylene on MgO(100). <i>Physical Review Letters</i> , 1997, 78, 4237-4240.	2.9	30
79	Higher-generation type III-B rotaxane dendrimers with controlling particle size in three-dimensional molecular switching. <i>Nature Communications</i> , 2018, 9, 497.	5.8	30
80	Structure determination of Pt ₃ Ti(111) by automated tensor LEED. <i>Journal of Physics Condensed Matter</i> , 1993, 5, 4585-4594.	0.7	29
81	Molecular Modeling of Ethynidyne Adsorption and Diffusion on Pt(111). <i>Langmuir</i> , 1996, 12, 1251-1256.	1.6	29
82	Oxygen vacancy diffusion in bare ZnO nanowires. <i>Nanoscale</i> , 2014, 6, 11882-11886.	2.8	29
83	Linear approximation to dynamical low-energy electron diffraction. <i>Physical Review B</i> , 1992, 46, 9897-9899.	1.1	28
84	Structural Analysis and Electronic Properties of Negatively Charged TCNQ: 2D Networks of (TCNQ) ₂ Mn Assembled on Cu(100). <i>Journal of Physical Chemistry C</i> , 2010, 114, 17197-17204.	1.5	28
85	Manipulating Magnetism at Organic/Ferromagnetic Interfaces by Molecule-Induced Surface Reconstruction. <i>Journal of the American Chemical Society</i> , 2016, 138, 4029-4035.	6.6	28
86	PHOTOELECTRON DIFFRACTION: SPACE, TIME, AND SPIN DEPENDENCE OF SURFACE STRUCTURES. <i>Surface Review and Letters</i> , 1997, 04, 421-440.	0.5	27
87	Surface roughness and LEED crystallography: Analysis of flat and vicinal W(110). <i>Physical Review B</i> , 1999, 60, 1975-1981.	1.1	27
88	Global search in photoelectron diffraction structure determination using genetic algorithms. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 446002. Detailed low-energy electron diffraction analysis of the $(\sqrt{3} \times \sqrt{3})$ Tj ETQq1 1 0.784314 rgBT (Overlock 10 Tf 50 122 Td (xmlns:mml=	0.7	27
89	surface structure of C_{60} on Cu(111): Seven-atom-vacancy reconstruction. <i>Physical Review B</i>, 2012, 86.	1.1	27
90	Origin of the Contrast Interpreted as Intermolecular and Intramolecular Bonds in Atomic Force Microscopy Images. <i>Journal of Physical Chemistry C</i> , 2015, 119, 14195-14200.	1.5	27

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91	Photoelectron and x-ray holography by contrast: enhancing image quality and dimensionality. Journal of Physics Condensed Matter, 2001, 13, 10517-10532.	0.7	26
92	Manipulating Localized Molecular Orbitals by Single-Atom Contacts. Physical Review Letters, 2010, 105, 126801.	2.9	26
93	Complex Molecules on a Flat Metal Surface: Large Distortions Induced by Chemisorption Can Make Physisorption Energetically More Favorable. Journal of Physical Chemistry Letters, 2010, 1, 2974-2979.	2.1	26
94	Honeycomb structure of adatoms surrounding substituted atoms: Cu(111)-(2Å ⁻²)-3Li. Physical Review B, 1995, 51, 7981-7984.	1.1	25
95	Spin-polarized photoelectrons excited by circularly polarized radiation from a nonmagnetic solid. Physical Review B, 1996, 53, R10544-R10547.	1.1	25
96	Inspecting Metal-Coordination-Induced Perturbation of Molecular Ligand Orbitals at a Submolecular Resolution. Journal of Physical Chemistry Letters, 2010, 1, 2295-2298.	2.1	25
97	Holographic analysis of diffraction structure factors. Physical Review B, 2002, 66, .	1.1	24
98	C_{60} on the Pt(111) surface: Structural tuning of electronic properties. Physical Review B, 2011, 84, .	1.1	24
99	The NIST Surface Structure Database "SSD version 4. Acta Crystallographica Section B: Structural Science, 2002, 58, 338-342.	1.8	22
100	Prospects for Resolving Chemical Structure by Atomic Force Microscopy: A First-Principles Study. Langmuir, 2010, 26, 16271-16277.	1.6	22
101	Adsorbate-induced reconstruction by C_{60} on close-packed metal surfaces: Mechanism for different types of reconstruction. Physical Review B, 2012, 85, .	1.1	22
102	MgO(100) surface relaxation by symmetrized automated tensor low energy electron diffraction analysis. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1998, 16, 2261-2266.	0.9	21
103	Interlocking Mechanism between Molecular Gears Attached to Surfaces. ACS Nano, 2018, 12, 3020-3029.	7.3	21
104	Magnetic dichroism in core-level x-ray photoemission with unpolarized excitation. Physical Review B, 1996, 54, 17962-17965.	1.1	20
105	REFINEMENT OF THE Pt(111)+c(4Å ⁻²)-2CO STRUCTURE USING AUTOMATED TENSOR LEED. Surface Review and Letters, 2000, 07, 15-19.	0.5	20
106	Atomic structure of the cleaved Si(111)-(2Å ⁻¹) surface refined by dynamical LEED. Physical Review B, 2004, 70, .	1.1	20
107	Atomic structure of clean and arsenic-covered GaAs(110) surfaces. Journal of Vacuum Science and Technology, 1979, 16, 1258-1261.	1.9	19
108	Electron Stimulation of Internal Torsion of a Surface-Mounted Molecular Rotor. ACS Nano, 2010, 4, 4929-4935.	7.3	19

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109	Interactions between Organics and Metal Surfaces in the Intermediate Regime between Physisorption and Chemisorption. <i>Journal of Physical Chemistry C</i> , 2012, 116, 23603-23607.	1.5	19
110	Summary Abstract: Coadsorbate induced ordering on Rh(111) and Rh(100) surfaces: Structural and chemical effects. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1988, 6, 786-787.	0.9	17
111	Quantitative prediction of surface segregation in bimetallic Pt-M alloy nanoparticles (M=Ni,Re,Mo). <i>Progress in Surface Science</i> , 2005, , .	3.8	17
112	Efficient Calculation of Electron Diffraction for the Structural Determination of Nanomaterials. <i>Physical Review Letters</i> , 2006, 97, 055505.	2.9	17
113	Revealing highly unbalanced energy barriers in the extension and contraction of the muscle-like motion of a [c2]daisy chain. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 18318-18326.	1.3	17
114	Interlocking Molecular Gear Chains Built on Surfaces. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2611-2619.	2.1	17
115	BENZENE ADSORPTION ON Pt(111): A THEORETICAL STUDY. <i>Surface Review and Letters</i> , 1995, 02, 285-295.	0.5	16
116	CO dissociation on magnetic Fe clusters. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 20703-20713.	1.3	16
117	Electron emission holography of small clusters and surfaces. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1992, 10, 2261-2270.	0.9	15
118	Energetics and dynamics of a new type of extended line defects in graphene. <i>Nanoscale</i> , 2012, 4, 2580.	2.8	15
119	Self-doping and magnetic ordering induced by extended line defects in graphene. <i>Physical Review B</i> , 2015, 91, .	1.1	15
120	How Does the Flexibility of Molecules Affect the Performance of Molecular Rotors?. <i>Journal of Physical Chemistry C</i> , 2018, 122, 25067-25074.	1.5	15
121	Resonant x-ray fluorescence holography: Three-dimensional atomic imaging in true color. <i>Physical Review B</i> , 2001, 65, .	1.1	14
122	Angular distributions of electrons photoemitted from core levels of oriented diatomic molecules: multiple scattering theory in non-spherical potentials. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2002, 35, L359-L365.	0.6	14
123	Non-free-electron momentum- and thickness-dependent evolution of quantum well states in the Cu-Co-Cu(001) system. <i>Physical Review B</i> , 2006, 73, .	1.1	14
124	Atomic nitrogen chemisorption on graphene with extended line defects. <i>Journal of Materials Chemistry</i> , 2012, 22, 21167.	6.7	14
125	One-step photoemission calculations for ideal GaAs(001) and AlAs(001) surfaces and (GaAs) _m (AlAs) _n superlattices. <i>Physical Review B</i> , 2001, 63, .	1.1	13
126	Quantization condition of quantum-well states in Cu/Co(001). <i>Physical Review B</i> , 2003, 68, .	1.1	13

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127	Enhanced Vibrations at Surfaces with Back-Bonds Nearly Parallel to the Surface. Journal of Physical Chemistry B, 2004, 108, 14265-14269.	1.2	13
128	Theory of low-energy electron diffraction for detailed structural determination of nanomaterials: Finite-size and disordered structures. Physical Review B, 2007, 75, .	1.1	13
129	Intramolecular torque, an indicator of the internal rotation direction of rotor molecules and similar systems. Physical Chemistry Chemical Physics, 2016, 18, 29665-29672.	1.3	13
130	Donor/Acceptor Properties of Aromatic Molecules in Complex Metal-Molecule Interfaces. Langmuir, 2017, 33, 451-458.	1.6	13
131	Summary Abstract: The structures of small hydrocarbon molecules on Rh(111) studied by low energy electron diffraction: Acetylene, ethylene, methylacetylene, and propylene. Journal of Vacuum Science and Technology, 1982, 20, 886-887.	1.9	12
132	Molecular modeling of amine dehydrogenation on nickel(111). Langmuir, 1993, 9, 1500-1503.	1.6	12
133	Restructuring of metal surfaces and adsorbed monolayers during chemisorption and catalytic reaction. Acta Crystallographica Section B: Structural Science, 1995, 51, 502-512.	1.8	12
134	DETERMINATION OF COMPLEX SURFACE STRUCTURES WITH LEED. Surface Review and Letters, 1997, 04, 479-487.	0.5	12
135	Atomic-scale surface structure determination: comparison of techniques. Surface and Interface Analysis, 1999, 28, 36-43.	0.8	12
136	Surface sensitivity in electron spectroscopy: coherent versus incoherent scattering models. Journal of Electron Spectroscopy and Related Phenomena, 2004, 137-140, 183-187.	0.8	12
137	X-ray photoelectron diffraction study of ultrathin PbTiO ₃ films. European Physical Journal B, 2006, 49, 141-146.	0.6	12
138	X-ray photoelectron diffraction study of Cu(111): Multiple scattering investigation. Surface Science, 2006, 600, 380-385.	0.8	12
139	Theory of low-energy electron diffraction for detailed structural determination of nanomaterials: Ordered structures. Physical Review B, 2007, 75, .	1.1	12
140	Soft nanohand grabs a growing nanoparticle. Materials Chemistry Frontiers, 2019, 3, 1555-1564.	3.2	12
141	Observation and resonant x-ray optical interpretation of multi-atom resonant photoemission effects in O1s emission from NiO. Physical Review B, 2006, 74, .	1.1	11
142	In Reply: Auger Electron Angular Distributions from Surfaces: Forward Focusing or Silhouettes?. Science, 1990, 248, 1129-1129.	6.0	10
143	Imaging short-range magnetic order by spin-polarized photoelectron holography. Physical Review B, 1994, 50, 9656-9659.	1.1	10
144	Photoelectron diffraction at the surface of amorphous carbon nitride. Applied Physics Letters, 2000, 77, 3394-3396.	1.5	10

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145	Summary Abstract: The structure of benzene coadsorbed with CO on Pd(111): A dynamical low-energy electron diffraction study. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1988, 6, 633-634.	0.9	9
146	Ordering of ethylidyne on clean and adsorbate covered Pd(111): Influence of the coadsorption of oxygen. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1992, 10, 2342-2346.	0.9	9
147	Comment on "In-Plane Lattice Reconstruction of Cu(100)". Physical Review Letters, 1996, 76, 3659-3659.	2.9	9
148	Equivalent-core calculation of core-level relaxation energies in photoelectron spectroscopy: A molecular-orbital approach. Journal of Chemical Physics, 1998, 109, 6527-6532.	1.2	9
149	A Distinctive Feature of the Surface Structure of Quasicrystals: Intrinsic and Extrinsic Heterogeneity. Israel Journal of Chemistry, 2011, 51, 1326-1339.	1.0	9
150	Observation and Analysis of Ordered and Disordered Structures on the ZnO(0001) Polar Surface. Journal of Physical Chemistry C, 2016, 120, 26915-26921.	1.5	9
151	Summary Abstract: Coadsorption structures of benzene and carbon monoxide on Rh(111) and Pt(111) by high-resolution electron energy loss spectroscopy and low-energy electron diffraction. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1987, 5, 692-693.	0.9	8
152	Summary Abstract: Forward focusing of diffracted and emitted electrons as a surface structural tool. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1988, 6, 2093-2094.	0.9	7
153	Quantum coherence in surface-tip transfer of adatoms in AFM/STM. Physical Review B, 1998, 57, 4720-4729.	1.1	7
154	$\hat{\Gamma}$ -Ga(010) surface reconstruction: A LEED structural analysis of the $(1\bar{1}-1)$ room temperature and $(2\bar{2}-2)$ low-temperature structures. Physical Review B, 2003, 68, .	1.1	7
155	The structure of the CoS ₂ (100)-(1 $\bar{1}$ - 1) surface. Journal of Physics Condensed Matter, 2007, 19, 156223.	0.7	7
156	Significant negative differential resistance predicted in scanning tunneling spectroscopy for a C_{60} molecule on a metal surface. Physical Review B, 2009, 80, .	1.1	7
157	Inducing extended line defects in graphene by linear adsorption of C and N atoms. Applied Physics Letters, 2012, 101, .	1.5	7
158	Symmetry-dependent band gap opening in graphene induced by $g-C_3N_4$ substrates. RSC Advances, 2014, 4, 64577-64582.	1.7	7
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