Peter J Feibelman

List of Publications by Citations

186 papers	13,081 citations	58 h-index	111 g-index
193 ext. papers	13,441 ext. citations	4.3 avg, IF	6.63 L-index

#	Paper	IF	Citations
186	Ion Desorption by Core-Hole Auger Decay. *Physical Review Letters*, **1978**, 40, 964-967	7.4	999
185	The CO/Pt(111) Puzzle. *Journal of Physical Chemistry B*, **2001**, 105, 4018-4025	3.4	579
184	Photoemission spectroscopy□correspondence between quantum theory and experimental phenomenology. *Physical Review B*, **1974**, 10, 4932-4947	3.3	500
183	Two-dimensional Ir cluster lattice on a graphene moir□on Ir(111). *Physical Review Letters*, **2006**, 97, 215501	7.4	488
182	Partial dissociation of water on Ru(0001). *Science*, **2002**, 295, 99-102	33.3	422
181	Surface self-diffusion on Pt(001) by an atomic exchange mechanism. *Physical Review Letters*, **1990**, 64, 3143-3146	7.4	374
180	Diffusion path for an Al adatom on Al(001). *Physical Review Letters*, **1990**, 65, 729-732	7.4	363
179	Reinterpretation of electron-stimulated desorption data from chemisorption systems. *Physical Review B*, **1978**, 18, 6531-6539	3.3	308
178	Stability of ionically bonded surfaces in ionizing environments. *Surface Science*, **1979**, 90, 78-90	1.8	304
177	Microscopic calculation of electromagnetic fields in refraction at a jellium-vacuum interface. *Physical Review B*, **1975**, 12, 1319-1336	3.3	276
176	Evidence for graphene growth by C cluster attachment. *New Journal of Physics*, **2008**, 10, 093026	2.9	245
175	Electronic Structure of a "Poisoned" Transition-Metal Surface. *Physical Review Letters*, **1984**, 52, 61-64	7.4	236
174	Effects on Photoemission of the Spatially Varying Photon Field at a Metal Surface. *Physical Review Letters*, **1979**, 43, 952-955	7.4	224
173	Green's-function methods for electronic-structure calculations. *Physical Review B*, **1982**, 26, 5433-5444	3.3	213
172	Modification of transition metal electronic structure by P, S, Cl, and Li adatoms. *Surface Science*, **1985**, 149, 48-66	1.8	200
171	Force and total-energy calculations for a spatially compact adsorbate on an extended, metallic crystal surface. *Physical Review B*, **1987**, 35, 2626-2646	3.3	189
170	Pentagons and heptagons in the first water layer on Pt(111). *Physical Review Letters*, **2010**, 105, 026102	7.4	178

169	Electronic structure of a Ti(0001) film. *Physical Review B*, **1979**, 20, 1433-1443	3.3	176
168	Surface-plasmon dispersion in simple metals. *Physical Review Letters*, **1989**, 63, 2256-2259	7.4	162
167	Novel water overlayer growth on Pd(111) characterized with scanning tunneling microscopy and density functional theory. *Physical Review Letters*, **2004**, 93, 116101	7.4	159
166	Evidence for interlayer coupling and moir periodic potentials in twisted bilayer graphene. *Physical Review Letters*, **2012**, 109, 186807	7.4	146
165	The first wetting layer on a solid. *Physics Today*, **2010**, 63, 34-39	0.9	142
164	Static quantum-size effects in thin crystalline, simple-metal films. *Physical Review B*, **1983**, 27, 1991-1996	3.3	134
163	N-scaling algorithm for density-functional calculations of metals and insulators. *Physical Review B*, **1994**, 49, 10088-10101	3.3	133
162	Exact microscopic theory of surface contributions to the reflectivity of a jellium solid. *Physical Review B*, **1976**, 14, 762-771	3.3	128
161	Theory of valence-band Auger line shapes: Ideal Si (111), (100), and (110). *Physical Review B*, **1977**, 15, 2202-2216	3.3	124
160	Microscopic calculation of surface-plasmon dispersion and damping. *Physical Review B*, **1974**, 9, 5077-5098	3.3	121
159	Pinning of graphene to Ir(111) by flat Ir dots. *Physical Review B*, **2008**, 77,	3.3	119
158	Experimental evidence for a partially dissociated water bilayer on Ru[0001]. *Physical Review Letters*, **2004**, 93, 196102	7.4	119
157	First-principles calculations of stress induced by gas adsorption on Pt(111). *Physical Review B*, **1997**, 56, 2175-2182	3.3	118
156	Self-Consistent Calculation of the Surface Photoelectric Effect. *Physical Review Letters*, **1975**, 34, 1092-1095	7.4	114
155	Relaxation of hcp(0001) surfaces: A chemical view. *Physical Review B*, **1996**, 53, 13740-13746	3.3	113
154	Interlayer Self-Diffusion on Stepped Pt(111). *Physical Review Letters*, **1998**, 81, 168-171	7.4	110
153	First-principles calculation of the geometric and electronic structure of the Be(0001) surface. *Physical Review B*, **1992**, 46, 2532-2539	3.3	108
152	Microscopic Description of Electron-Solid Interactions at a Surface. *Physical Review B*, **1972**, 5, 2436-2462	3.3	106

151	Valence-band Auger line shapes for Si surfaces: Simplified theory and corrected numerical results. *Physical Review B*, **1978**, 17, 690-698	3.3	105
150	Observation of a true interface state in strained-layer Cu adsorption on Ru(0001). *Physical Review Letters*, **1986**, 56, 375-377	7.4	103
149	Quantum-size effects in work functions of free-standing and adsorbed thin metal films. *Physical Review B*, **1984**, 29, 6463-6467	3.3	100
148	Theory of H bonding and vibration on Pt(111). *Surface Science*, **1987**, 182, 411-422	1.8	99
147	Rebonding effects in separation and surface-diffusion barrier energies of an adatom pair. *Physical Review Letters*, **1987**, 58, 2766-2769	7.4	96
146	Kinetics and thermodynamics of carbon segregation and graphene growth on Ru(0 0 0 1). *Carbon*, **2009**, 47, 1806-1813	10.4	92
145	Reneutralization bottleneck in Auger initiated desorption. *Surface Science*, **1981**, 102, L51-L53	1.8	92
144	Site and nature of H bonding on Ti (0001). *Physical Review B*, **1980**, 22, 1734-1739	3.3	88
143	Adsorbate band dispersions for C on Ru(0001). *Surface Science*, **1982**, 115, L159-L164	1.8	87
142	Energetics of Pt adsorption on Pt(111). *Physical Review B*, **1994**, 49, 10548-10556	3.3	86
141	Formation and diffusion of S-decorated Cu clusters on Cu(111). *Physical Review Letters*, **2000**, 85, 606-9	7.4	81
140	Surface-diffusion mechanism versus electric field: Pt/Pt(001). *Physical Review B*, **2001**, 64,	3.3	80
139	Simple Microscopic Theory of Surface Plasmons. *Physical Review*, **1968**, 176, 551-555		77
138	Anisotropy of the stress on fcc(110) surfaces. *Physical Review B*, **1995**, 51, 17867-17875	3.3	76
137	First-principles total-energy calculation for a single adatom on a crystal. *Physical Review Letters*, **1985**, 54, 2627-2630	7.4	74
136	Sensitivity of Surface-Plasmon Dispersion and Damping to Potential Barrier Shape. *Physical Review Letters*, **1973**, 30, 975-978	7.4	70
135	Local field at an irradiated adatom on jelliumExact microscopic results. *Physical Review B*, **1980**, 22, 3654-3668	3.3	69
134	Electronic structure of clean and carbon-covered closed-packed rhodium and ruthenium surfaces. *Physical Review B*, **1982**, 26, 5347-5356	3.3	66

133	Surface states of Sc(0001) and Ti(0001). *Solid State Communications*, **1979**, 31, 413-417	1.6	64
132	LAPW calculations of Rh(001) surface relaxation. *Surface Science*, **1990**, 234, 377-383	1.8	62
131	Asymmetry of the Van der Waals interaction between a molecule and a surface. *Surface Science*, **1982**, 115, L133-L136	1.8	60
130	Insensitivity of the Infinite-Wavelength Surface Plasmon Frequency to the Electron Density Profile. *Physical Review B*, **1971**, 3, 220-222	3.3	60
129	Orientation dependence of the hydrogen molecule's interaction with Rh(001). *Physical Review Letters*, **1991**, 67, 461-464	7.4	58
128	CO-induced smoluchowski ripening of Pt cluster arrays on the graphene/Ir(111) moir *ACS Nano*, **2013**, 7, 2020-31	16.7	54
127	Vibrations of a water adlayer on Ru(0001). *Physical Review B*, **2003**, 67,	3.3	53
126	Relaxation of the clean, Cu- and H-covered Ru(0001) surface. *Surface Science*, **1994**, 302, 81-92	1.8	51
125	Interpretation of differential reflectance studies of metal surfaces. *Physical Review B*, **1981**, 23, 2629-2634	3.3	51
124	Energetics of steps on Pt(111). *Physical Review B*, **1995**, 52, 16845-16854	3.3	50
123	Tight-Binding Calculation of a Core-Valence-Valence Auger Line Shape: Si(111). *Physical Review Letters*, **1976**, 36, 1154-1157	7.4	50
122	Spatial variation of the electron mean free path near a surface. *Surface Science*, **1973**, 36, 558-568	1.8	49
121	First-principles calculational methods for surface-vacancy formation energies, heats of segregation, and surface core-level shifts. *Physical Review B*, **1989**, 39, 4866-4872	3.3	48
120	First-principles calculation of the Mg(0001) surface relaxation. *Surface Science*, **1994**, 302, 215-222	1.8	47
119	Calculation of the structure of the Al(331) stepped surface. *Physical Review Letters*, **1992**, 68, 2188-2191	7.4	47
118	Independent electron calculation of L3M4,5M4,5 and M2,3M4,5M4,5 Auger line shapes for Cu metal. *Physical Review B*, **1977**, 15, 3575-3579	3.3	47
117	Clusters binding to the graphene moir on Ir(111): X-ray photoemission compared to density functional calculations. *Physical Review B*, **2012**, 85,	3.3	46
116	Lattice match in density functional calculations: ice Ih vs. beta-AgI. *Physical Chemistry Chemical Physics*, **2008**, 10, 4688-91	3.6	46

115	Interpretation of the linear coefficient of surface-plasmon dispersion. *Physical Review B*, **1989**, 40, 2752-2756	3.3	46
114	Disagreement between experimental and theoretical metal surface relaxations. *Surface Science*, **1996**, 360, 297-301	1.8	45
113	Spectroscopy of a surface of known geometry: Ti(0001)-N(1×1). *Physical Review B*, **1980**, 21, 1394-1399	3.3	45
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111	d-electron frustration and the large fcc versus hcp binding preference in O adsorption on Pt(111). *Physical Review B*, **1997**, 56, 10532-10537	3.3	43
110	Diffusion barrier for a Ag adatom on Pt(111). *Surface Science*, **1994**, 313, L801-L805	1.8	43
109	Structure of "carbidic" and "graphitic" phases on Ru(0001). *Surface Science*, **1981**, 103, L149-L154	1.8	42
108	First-principles calculations of adatom binding and interaction on Rh(001). *Physical Review B*, **1991**, 43, 9452-9458	3.3	41
107	Spectroscopic determination of surface geometry: Ti(0001)-H(1×1). *Physical Review B*, **1980**, 21, 1385-1393	3.3	41
106	The angular dependence of plasmon loss features in XPS spectra from polycrystalline aluminum: Clean surfaces and effects of oxygen adsorption. *Surface Science*, **1978**, 72, 495-512	1.8	41
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102	Perturbation of surface plasmon dispersion by "extra" electrons near a surface. *Surface Science*, **1993**, 282, 129-136	1.8	39
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100	Lattice relaxation near isolated adsorbates. *Physical Review Letters*, **1989**, 63, 2488-2491	7.4	37
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98	Onset of three-dimensional Ir islands on a graphene/Ir(111) template. *Physical Review B*, **2009**, 80,	3.3	35

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96	How to observe molecule-surface energy transfer mediated by the "harpooning" mechanism. *Surface Science*, **1985**, 160, 139-152	1.8	35
95	Effect of high-viscosity interphases on drainage between hydrophilic surfaces. *Langmuir*, **2004**, 20, 1239-44	4	34
94	First-principles step- and kink-formation energies on Cu(111). *Physical Review B*, **1999**, 60, 11118-11122	3.3	34
93	Interaction of hydrogen with the Be(0001) surface. *Physical Review B*, **1995**, 51, 13748-13759	3.3	34
92	Comment on "Surface plasmon dispersion of Ag". *Physical Review Letters*, **1994**, 72, 788	7.4	34
91	Calculation of surface stress in a linear combination of atomic orbitals representation. *Physical Review B*, **1994**, 50, 1908-1911	3.3	34
90	Systematics of adsorption near a step. *Physical Review Letters*, **1992**, 69, 1568-1571	7.4	34
89	Adsorption-induced lattice relaxation and diffusion by concerted substitution. *Physical Review B*, **1999**, 59, 5892-5897	3.3	33
88	Surface-electronic-structure information from bulk plasmon photoexcitation in free-electron metal films. *Physical Review B*, **1975**, 12, 4282-4301	3.3	33
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83	Clusters, molecular layers, and 3D crystals of water on Ni(111). *Journal of Chemical Physics*, **2014**, 141, 18C520	3.9	29
82	Inverse of the photoelectric effect in Al. *Physical Review Letters*, **1988**, 60, 2070-2073	7.4	28
81	A unique vibrational signature of rotated water monolayers on Pt(111): predicted and observed. *Journal of Chemical Physics*, **2011**, 134, 204702	3.9	27
80	Dimer binding energies on fcc() metal surfaces. *Surface Science*, **2003**, 539, L560-L566	1.8	27

79	Local-orbital basis for defect electronic structure calculations of an Al(100) film. *Physical Review B*, **1988**, 38, 1849-1855	3.3	27
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77	What the stretch frequency spectrum of D2O/Ru(0001) does and does not mean. *Chemical Physics Letters*, **2004**, 389, 92-95	2.5	26
76	Pulay-type formula for surface stress in a local-density-functional, linear combination of atomic orbitals, electronic-structure calculation. *Physical Review B*, **1991**, 44, 3916-3925	3.3	26
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74	Entropy of H2O Wetting Layers *Journal of Physical Chemistry B*, **2004**, 108, 14362-14367	3.4	24
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69	Efficient solution of Poisson's equation in linear combination of atomic orbitals (LCAO) electronic structure calculations. *Journal of Chemical Physics*, **1984**, 81, 5864-5872	3.9	21
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67	Atomic structure of Pt nanoclusters supported by graphene/Ir(111) and reversible transformation under CO exposure. *Physical Review B*, **2016**, 93,	3.3	20
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65	Physics of the Be(0001) surface core-level spectrum. *Physical Review B*, **1994**, 50, 17480-17486	3.3	20
64	Negative surface-plasmon dispersion coefficient: A physically illustrative, exact formula. *Physical Review B*, **1990**, 41, 8519-8521	3.3	20
63	Comparison of calculated surface core-level energy shifts with empirical heats of segregation. *Physical Review B*, **1983**, 27, 2531-2534	3.3	20
62	Modification of Cu-H bonding near a Ru(0001) surface. *Surface Science*, **1986**, 173, L582-L589	1.8	20

61	Geometric vs. electronic factor in surface electronic structure-H adsorption on Sc and Ti(0001). *Solid State Communications*, **1980**, 34, 215-218	1.6	20
60	Using Ar adsorption to estimate the van der Waals contribution to the wetting of Ru(0001). *Physical Review B*, **2005**, 72,	3.3	19
59	Step- versus kink-formation energies on Pt(111). *Surface Science*, **2000**, 463, L661-L665	1.8	19
58	Theory of H bonding and vibration on close-packed metal surfaces. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **1987**, 5, 424-426	2.9	19
57	Interaction between adsorbed chalcogen and Al atoms on Al(001). *Physical Review B*, **1988**, 38, 12133-12138	3.3	19
56	A wetting layer breaks the ice rules. *Chemical Physics Letters*, **2005**, 410, 120-124	2.5	18
55	Surface states of clean and metal-overlayer-covered Cr(001) films. *Physical Review B*, **1985**, 31, 1154-1156	3.3	18
54	Pt-dimer dissociation on Pt(111). *Surface Science*, **2001**, 492, L723-L728	1.8	15
53	Scanning tunneling microscopy: Energetics from statistical analysis. *Physical Review B*, **1995**, 52, 12444-12446	3.3	14
52	Structure of H-covered Be(0001). *Physical Review B*, **1993**, 48, 11270-11276	3.3	14
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44	Accelerated mound decay at adjacent kinks on Cu(111). *Surface Science*, **2001**, 478, L349-L354	1.8	11

43	Interpretation of O binding-site preferences on close-packed group-VIII metal surfaces. *Physical Review B*, **1999**, 59, 2327-2331	3.3	11
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40	Oscillatory interaction between O impurities and Al adatoms on Al(111) and its effect on nucleation and growth. *Surface Science*, **2005**, 575, 89-102	1.8	9
39	Local elastic constants for the Al(001) surface. *Physical Review B*, **1988**, 38, 7287-7291	3.3	8
38	Film-Asymmetry Effects in Resonant Photoexcitation of Plasmons. *Physical Review Letters*, **1975**, 35, 617-620	7.4	8
37	Water--From Interfaces to the Bulk. Concluding remarks. *Faraday Discussions*, **2009**, 141, 467-75	3.6	7
36	Theoretical surface core-level shifts for Be(0001). *Physical Review B*, **1994**, 49, 13809-13814	3.3	7
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33	Friedel oscillations in the force constants of metals. *Physical Review B*, **1997**, 55, 8821-8828	3.3	5
32	Evaluation of wave functions for a surface potential barrier having Friedel oscillations. *Physical Review B*, **1975**, 12, 806-808	3.3	5
31	Surface Self-Diffusion on Pt(001) by an Atomic Exchange Mechanism. *Physical Review Letters*, **1990**, 65, 939-939	7.4	4
30	Aims and recent accomplishments of surface theory. *Journal of Vacuum Science and Technology*, **1980**, 17, 176-181		4
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18	Summary Abstract: Comparison of calculated surface core-level energy shifts with empirical heats of segregation. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **1983**, 1, 1101-1102	2.9	2
17	Reneutralization bottleneck in Auger initiated desorption. *Surface Science Letters*, **1981**, 102, L51-L53		2
16	Construction of a simple representation for the Green's function of a crystalline film. *Physical Review B*, **1976**, 13, 4403-4407	3.3	2
15	A means for distinguishing if an adatom is above or below a substrate surface. *Surface Science*, **1972**, 33, 179-186	1.8	2
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12	Structure of "carbidic" and "graphitic" phases on Ru(0001). *Surface Science Letters*, **1981**, 103, L149-L154		1
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1 ELECTROMAGNETIC RESPONSE FUNCTIONS OF JELLIUM SURFACES **1984**, 259-263