Philip Hofmann

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5921287/publications.pdf

Version: 2024-02-01

252	13,043	23567	28297
papers	citations	58 h-index	105 g-index

256	256	256	12265
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bandgap opening in graphene induced by patterned hydrogen adsorption. Nature Materials, 2010, 9, 315-319.	27.5	1,344
2	Strong Spin-Orbit Splitting on Bi Surfaces. Physical Review Letters, 2004, 93, 046403.	7.8	595
3	The surfaces of bismuth: Structural and electronic properties. Progress in Surface Science, 2006, 81, 191-245.	8.3	489
4	Coexistence of the topological state and a two-dimensional electron gas on the surface of Bi2Se3. Nature Communications, 2010, 1, 128.	12.8	407
5	Large Tunable Rashba Spin Splitting of a Two-Dimensional Electron Gas in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Se</mml:mi><mml:mn> Physical Review Letters, 2011, 107, 096802.	7.8	405
6	Direct View of Hot Carrier Dynamics in Graphene. Physical Review Letters, 2013, 111, 027403.	7.8	308
7	Direct observation of spin-polarized bulk bands in an inversion-symmetric semiconductor. Nature Physics, 2014, 10, 835-839.	16.7	271
8	Atomic Hydrogen Adsorbate Structures on Graphene. Journal of the American Chemical Society, 2009, 131, 8744-8745.	13.7	255
9	Emergent quantum confinement at topological insulator surfaces. Nature Communications, 2012, 3, 1159.	12.8	235
10	Oxygen Switching of the Epitaxial Grapheneâ€“Metal Interaction. ACS Nano, 2012, 6, 9551-9558.	14.6	195
11	Low-energy acoustic plasmons at metal surfaces. Nature, 2007, 448, 57-59.	27.8	189
12	Role of Spin in Quasiparticle Interference. Physical Review Letters, 2004, 93, 196802.	7.8	158
13	Van der Waals Epitaxy of Two-Dimensional MoS₂â€“Graphene Heterostructures in Ultrahigh Vacuum. ACS Nano, 2015, 9, 6502-6510.	14.6	153
14	Thermal Expansion of Supported and Freestanding Graphene: Lattice Constant versus Interatomic Distance. Physical Review Letters, 2011, 106, 135501.	7.8	148
15	In-Plane Magnetic Anisotropy of Fe Atoms on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Se</mml:mi><mml:mn stretchy="false">(</mml:mo><mml:mn>111</mml:mn><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 167 Td (stretchy="fa	7.8	144
16	Electronic Structure of Epitaxial Single-Layer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow><mml:mi>MoS</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2015, 114, 046802.	7.8	140
17	Direct imaging of the two-dimensional Fermi contour:â€ƒFourier-transform STM. Physical Review B, 1998, 57, R6858-R6861.	3.2	138
18	Observation of Ultrafast Free Carrier Dynamics in Single Layer MoS₂. Nano Letters, 2015, 15, 5883-5887.	9.1	138

#	Article	IF	Citations
19	Simultaneous Quantization of Bulk Conduction and Valence States through Adsorption of Nonmagnetic Impurities on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Se</mml:mi><mml:mn Physical Review Letters, 2011, 107, 086802.	7.8	136
20	Single-layer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>MoS</mml:mtext><mml:mn>2</mml:mn></mml:msub> Au(111): Band gap renormalization and substrate interaction. Physical Review B, 2016, 93, .	3.2	128
21	Transfer-Free Electrical Insulation of Epitaxial Graphene from its Metal Substrate. Nano Letters, 2012, 12, 4503-4507.	9.1	120
22	Synthesis of Epitaxial Single-Layer MoS₂ on Au(111). Langmuir, 2015, 31, 9700-9706.	3.5	119
23	Evidence for a direct band gap in the topological insulator Bi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Se<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>from theory and experiment. Physical Review B, 2013, 87, .	3.2	117
24	Electronâ€“phonon coupling at surfaces and interfaces. New Journal of Physics, 2009, 11, 125005.	2.9	112
25	Study of Surface States on Cu(110) Using Optical Reflectance Anisotropy. Physical Review Letters, 1995, 75, 2039-2042.	7.8	111
26	Structure determination of Ni(111)c(4 Ã— 2)-CO and its implications for the interpretation of vibrational spectroscopic data. Surface Science, 1994, 311, 337-348.	1.9	105
27	Stability of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="bold">Bi</mml:mi><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="bold">Se</mml:mi><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>(111) topological state: Electron-phonon and electron-defect scattering. Physical Review B, 2011, 83, .	3.2	101
28	Controllable Magnetic Doping of the Surface State of a Topological Insulator. Physical Review Letters, 2013, 110, 126804.	7.8	98
29	Ultrafast Dynamics of Massive Dirac Fermions in Bilayer Graphene. Physical Review Letters, 2014, 112, 257401.	7.8	96
30	Structure determination of ammonia on Cu(110) â€” a low-symmetry adsorption site. Surface Science, 1997, 387, 152-159.	1.9	95
31	Anisotropic Two-Dimensional Friedel Oscillations. Physical Review Letters, 1997, 79, 265-268.	7.8	93
32	An undulator-based spherical grating monochromator beamline for angle-resolved photoemission spectroscopy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 523, 441-453.	1.6	93
33	A universal approach for the synthesis of two-dimensional binary compounds. Nature Communications, 2019, 10, 2957.	12.8	93
34	Electron-phonon coupling in potassium-doped graphene: Angle-resolved photoemission spectroscopy. Physical Review B, 2010, 81, .	3.2	92
35	Ultrafast Band Structure Control of a Two-Dimensional Heterostructure. ACS Nano, 2016, 10, 6315-6322.	14.6	90
36	Graphene Coatings: Probing the Limits of the One Atom Thick Protection Layer. ACS Nano, 2012, 6, 10258-10266.	14.6	89

#	Article	IF	Citations
37	The geometric structure of the surface methoxy species on Cu(111). Surface Science, 1994, 304, 74-84.	1.9	88
38	Surface Band-Gap Narrowing in Quantized Electron Accumulation Layers. Physical Review Letters, 2010, 104, 256803.	7.8	86
39	Direct identification of atomic and molecular adsorption sites using photoelectron diffraction. Nature, 1994, 368, 131-132.	27.8	85
40	Is the frequency of the internal mode of an adsorbed diatomic molecule a reliable guide to its local adsorption site?. Journal of Electron Spectroscopy and Related Phenomena, 1993, 64-65, 75-83.	1.7	80
41	The local adsorption structure of acetylene on Cu(lll). Surface Science, 1993, 291, 295-308.	1.9	80
42	Tunable Carrier Multiplication and Cooling in Graphene. Nano Letters, 2015, 15, 326-331.	9.1	80
43	Structure of the (111) surface of bismuth: LEED analysis and first-principles calculations. Physical Review B, 2005, 72, .	3.2	79
44	Crystalline and electronic structure of single-layer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>TaS</mml:mi><mml:mn>2</mml:mn></mml:msub></mm Physical Review B, 2016, 94, .	3.2	77
45	The effect of reduced dimensionality on a semimetal: the electronic structure of the Bi(110) surface. New Journal of Physics, 2001, 3, 15-15.	2.9	72
46	Time- and momentum-resolved photoemission studies using time-of-flight momentum microscopy at a free-electron laser. Review of Scientific Instruments, 2020, 91, 013109.	1.3	72
47	Growth and electronic structure of epitaxial single-layer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>WS</mml:mtext><mml:mn>2</mml:mn></mml:msub Au(111). Physical Review B, 2015, 92, .	3.2	70
48	Controlling Hydrogenation of Graphene on Ir(111). ACS Nano, 2013, 7, 3823-3832.	14.6	69
49	Coverage-dependent changes in the adsorption geometry of benzene on Ni{111}. Surface Science, 1996, 348, 89-99.	1.9	66
50	Strong Energy Dependence of the Electron-Phonon Coupling Strength on Bi(100). Physical Review Letters, 2003, 91, 127601.	7.8	66
51	Surface-Dominated Transport on a Bulk Topological Insulator. Nano Letters, 2014, 14, 3755-3760.	9.1	66
52	Nondegenerate Metallic States on Bi(114): A One-Dimensional Topological Metal. Physical Review Letters, 2009, 102, 096802.	7.8	65
53	Surface-sensitive conductance measurements. Journal of Physics Condensed Matter, 2009, 21, 013003.	1.8	65
54	Epitaxial growth of single-orientation high-quality MoS ₂ monolayers. 2D Materials, 2018, 5, 035012.	4.4	65

#	Article	IF	Citations
55	Robust Surface Doping of Bi₂Se₃ by Rubidium Intercalation. ACS Nano, 2012, 6, 7009-7015.	14.6	64
56	Direct adsorbate-structure determination by scanned-energy-mode photoelectron diffraction. Physical Review B, 1993, 47, 13941-13943.	3.2	63
57	A photoelectron diffraction study of the structure of the Cu{110}(2 Ã— 1)-CO system. Surface Science, 1995, 337, 169-176.	1.9	62
58	Charge-density oscillations onBe(101Â¯0): Screening in a non-free two-dimensional electron gas. Physical Review B, 1998, 58, 13931-13943.	3.2	60
59	Fourier Transformâ€“STM: determining the surface Fermi contour. Journal of Electron Spectroscopy and Related Phenomena, 2000, 109, 97-115.	1.7	60
60	Bulk band structure of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Bi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Te</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2014, 90, .	3.2	60
61	Experimental demonstrations of direct adsorbate site identification using photoelectron diffraction. Physical Review Letters, 1993, 71, 2054-2057.	7.8	55
62	Electronic structure and Fermi surface of Bi(100). Physical Review B, 2005, 71, .	3.2	55
63	Symmetry-Driven Band Gap Engineering in Hydrogen Functionalized Graphene. ACS Nano, 2016, 10, 10798-10807.	14.6	55
64	Unexpected surface sensitivity at high energies in angle-resolved photoemission. Physical Review B, 2002, 66, .	3.2	54
65	Interfacial superconductivity in a bi-collinear antiferromagnetically ordered FeTe monolayer on a topological insulator. Nature Communications, 2017, 8, 14074.	12.8	53
66	Structure Determination of an Alkali Metalâ€“CO Coadsorption Phase: Ni(111)-K/CO. Physical Review Letters, 1995, 74, 1621-1624.	7.8	52
67	Disentangling Surface, Bulk, and Space-Charge-Layer Conductivity inSi(111)â^'(7Ã—7). Physical Review Letters, 2006, 97, 206803.	7.8	52
68	The local geometry of reactant and product in a surface reaction: the dehydrogenation of adsorved ethylene on Ni(111). Surface Science, 1995, 323, 19-29.	1.9	49
69	Hole dynamics in a two-dimensional spin-orbit coupled electron system: Theoretical and experimental study of the Au(111) surface state. Physical Review B, 2009, 80, .	3.2	49
70	Band dispersion in the deep 1s core level ofÂgraphene. Nature Physics, 2010, 6, 345-349.	16.7	48
71	Novel single-layer vanadium sulphide phases. 2D Materials, 2018, 5, 045009.	4.4	48
72	Electron-Lattice Interaction onÎ±â^'Ga(010). Physical Review Letters, 1998, 81, 1670-1673.	7.8	47

#	Article	IF	Citations
73	Surface-state contribution to the optical anisotropy of Ag(110) surfaces: A reflectance-anisotropy-spectroscopy and photoemission study. Physical Review B, 1998, 58, R10207-R10209.	3.2	46
74	The electronic structure of clean and adsorbate-covered Bi₂Se₃: an angle-resolved photoemission study. Semiconductor Science and Technology, 2012, 27, 124001.	2.0	45
75	Quasi-one-dimensional metallic band dispersion in the commensurate charge density wave of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mi>T</mml:mi><mml:mo>a</mml:mo></mml:m Physical Review B, 2017, 96, .	3.2	45
76	Spin and valley control of free carriers in single-layer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi mathvariant="normal">WS</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2017, 95, .	3.2	43
77	Electron-phonon coupling and surface Debye temperature of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="bold">Bi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">Te</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> (111) from helium atom scattering. Physical Review B, 2017, 95, .	3.2	42
78	Dielectric function of cubic and hexagonal CdS in the vacuum ultraviolet region. Physical Review B, 1993, 47, 1639-1642.	3.2	41
79	Phase Separation and Bulk pâ€n Transition in Single Crystals of Bi₂Te₂Se Topological Insulator. Advanced Materials, 2013, 25, 889-893.	21.0	41
80	Following the changes in local geometry associated with a surface reaction: the dehydrogenation of adsorbed ethylene. Journal of Physics Condensed Matter, 1994, 6, L93-L98.	1.8	40
81	Direct measurement of electrical conductance through a self-assembled molecular layer. Nature Nanotechnology, 2009, 4, 373-376.	31.5	39
82	Physics of theBe(101Â¯0)Surface Core Level Spectrum. Physical Review Letters, 1998, 81, 3271-3274.	7.8	38
83	Self-energy determination and electronâ€“phonon coupling on Bi(110). New Journal of Physics, 2005, 7, 99-99.	2.9	37
84	Surface structure of Bi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Se<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>(111) determined by low-energy electron diffraction and surface x-ray diffraction. Physical Review B, 2013, 88, .	3.2	37
85	Bottom-up approach for the low-cost synthesis of graphene-alumina nanosheet interfaces using bimetallic alloys. Nature Communications, 2014, 5, 5062.	12.8	37
86	Ultrafast electron dynamics in epitaxial graphene investigated with time- and angle-resolved photoemission spectroscopy. Journal of Physics Condensed Matter, 2015, 27, 164206.	1.8	37
87	Determination of the local adsorption structure of acetylene on Ni(111). Surface Science, 1994, 307-309, 722-727.	1.9	36
88	Kinks in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Ïƒ</mml:mi></mml:math>Band of Graphene Induced by Electron-Phonon Coupling. Physical Review Letters, 2013, 111, 216806.	7.8	36
89	Sequential oxygen and alkali intercalation of epitaxial graphene on Ir(111): enhanced many-body effects and formation of pn -interfaces. 2D Materials, 2014, 1, 025002.	4.4	36
90	Optical properties of the Au(110) surface. Physical Review B, 2001, 65, .	3.2	35

#	Article	IF	Citations
91	Electron-phonon coupling on the Mg(0001) surface. Physical Review B, 2005, 72, .	3.2	35
92	Observation of an Excitonic Mott Transition Through Ultrafast Core- cum -Conduction Photoemission Spectroscopy. Physical Review Letters, 2020, 125, 096401.	7.8	35
93	Proximity Effects on the Charge Density Wave Order and Superconductivity in Single-Layer NbSe₂. ACS Nano, 2021, 15, 19430-19438.	14.6	35
94	Geometric structure of Be(101Â¯0). Physical Review B, 1996, 53, 13715-13719.	3.2	34
95	Determining the electron-phonon mass enhancement parameter Î» on metal surfaces. Applied Physics A: Materials Science and Processing, 2005, 80, 943-949.	2.3	34
96	Evidence against a charge density wave on Bi(111). Physical Review B, 2005, 72, .	3.2	33
97	Thermally induced defects and the lifetime of electronic surface states. Physical Review B, 2007, 75, .	3.2	33
98	Substrate-induced semiconductor-to-metal transition in monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>WS</mml:mi><mml:mn>2</mml:mn></mml:msub></mm Physical Review B, 2017, 96, .	3.2	33
99	Ethene adsorbed on Cu(110): a combined photoemission and photoelectron diffraction study. Surface Science, 1995, 343, 201-210.	1.9	32
100	The conductivity of Bi(111) investigated with nanoscale four point probes. Journal of Applied Physics, 2008, 104, 053717.	2.5	32
101	Nitrogen layers on Rh(110)1 Ã— 1 and Rh(110)1 Ã— 2 surfaces produced by NO + H2 reaction: structure, stability and desorption kinetics. Surface Science, 1992, 277, 31-42.	1.9	31
102	High-temperature behavior of supported graphene: Electron-phonon coupling and substrate-induced doping. Physical Review B, 2012, 86, .	3.2	31
103	Quantitative structure determination of an NHx species adsorbed on Cu(110). Surface Science, 1996, 352-354, 232-237.	1.9	30
104	Direct Measurement of the Band Structure of a Buried Two-Dimensional Electron Gas. Physical Review Letters, 2013, 110, 136801.	7.8	30
105	Band-gap engineering by Bi intercalation of graphene on Ir(111). Physical Review B, 2016, 93, .	3.2	30
106	Pseudodoping of a metallic two-dimensional material by the supporting substrate. Nature Communications, 2019, 10, 180.	12.8	30
107	Photoelectron diffraction investigation of the adsorption site and local structure for potassium on Ni(111). Surface Science, 1994, 307-309, 632-638.	1.9	29
108	The electronic structure of Be(101Ì„0). Surface Science, 1996, 355, L278-L282.	1.9	28

#	Article	IF	Citations
109	Spin Structure of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>K</mml:mi></mml:math> Valleys in Single-Layer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>WS</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> on Au(111). Physical Review Letters, 2018, 121, 136402.	7.8	28
110	Local structure determination for low-coverage CO on Ni(111). Journal of Physics Condensed Matter, 1996, 8, 1367-1379.	1.8	27
111	Fermi surface of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>MoO</mml:mtext></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> by angle-resolved photoemission spectroscopy, de Haasâ€“van Alphen measurements, and electronic structure calculations. Physical Review B, 2009, 79, .	3.2	27
112	Strong electron-phonon coupling in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Ïƒ</mml:mi></mml:math> band of graphene. Physical Review B, 2017, 95, .	3.2	27
113	Nanoscale surface dynamics of Bi₂Te₃(111): observation of a prominent surface acoustic wave and the role of van der Waals interactions. Nanoscale, 2018, 10, 14627-14636.	5.6	27
114	80% Valley Polarization of Free Carriers in Singly Oriented Single-Layer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>WS</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> on Au(111). Physical Review Letters, 2019, 123, 236802.	7.8	27
115	Intra- and interband electron scattering in a hybrid topological insulator: Bismuth bilayer on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2014, 90, .	3.2	26
116	Ramifications of optical pumping on the interpretation of time-resolved photoemission experiments on graphene. Journal of Electron Spectroscopy and Related Phenomena, 2015, 200, 340-346.	1.7	26
117	Surface states on a topologically nontrivial semimetal: The case of Sb(110). Physical Review B, 2012, 85, .	3.2	25
118	Surface-sensitive conductivity measurement using a micro multi-point probe approach. Review of Scientific Instruments, 2013, 84, 033901.	1.3	25
119	Electronâ€“phonon coupling in quasi-free-standing graphene. Journal of Physics Condensed Matter, 2013, 25, 094001.	1.8	25
120	Observation of Electrically Tunable van Hove Singularities in Twisted Bilayer Graphene from NanoARPES. Advanced Materials, 2020, 32, 2001656.	21.0	25
121	Experimental tests of new direct methods for adsorbate structure determination using photoelectron diffraction. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1994, 12, 2045-2050.	2.1	24
122	An integrated approach to adsorbate structure determination using photoelectron diffraction: direct â€œimagingâ€•and quantitative simulation. Surface Science, 1996, 357-358, 19-27.	1.9	24
123	Core-level subsurface shifted component in a4dtransition metal:Ru(101Â¯0). Physical Review B, 2000, 61, 4534-4537.	3.2	24
124	Reorientation of the diagonal double-stripe spin structure at Fe1+yTe bulk and thin-film surfaces. Nature Communications, 2017, 8, 13939.	12.8	24
125	Exciting H₂ Molecules for Graphene Functionalization. ACS Nano, 2018, 12, 513-520.	14.6	24
126	Facile electrochemical transfer of large-area single crystal epitaxial graphene from Ir(1â€‰1â€‰1). Journal Physics D: Applied Physics, 2015, 48, 115306.	2.8	23

#	Article	IF	Citations
127	Quantitative determination of molecular adsorption structures using photoelectron diffraction: the methoxy species. Journal of Electron Spectroscopy and Related Phenomena, 1995, 75, 117-128.	1.7	22
128	Valence-band structure of cubic CdS as determined by angle-resolved photoemission. Physical Review B, 1997, 55, 9679-9684.	3.2	22
129	Thermal expansion at a metal surface:â€‚â€‚A study of Mg(0001) and Be(101Â¯0). Physical Review B, 2002, 66, .	3.2	22
130	Extracting the temperature of hot carriers in time- and angle-resolved photoemission. Review of Scientific Instruments, 2014, 85, 013907.	1.3	22
131	Spin-dependent electron-phonon coupling in the valence band of single-layer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>WS</mml:mi><mml:mn>2</mml:mn></mml:msub></m Physical Review B, 2017, 96, .	3.2	22
132	Basal plane oxygen exchange of epitaxial MoS ₂ without edge oxidation. 2D Materials, 2019, 6, 045013.	4.4	22
133	Epitaxial single-layer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>NbS</mml:mi><mml:mn>2</mml:mn></mml:msub></m on Au(111): Synthesis, structure, and electronic properties. Physical Review Materials, 2019, 3, .	2.4	22
134	Interaction of atomic nitrogen with Rh(110). Surface Science, 1992, 276, 144-155.	1.9	21
135	Is PEXAFS really PhD?. Surface Science, 2000, 445, 300-308.	1.9	21
136	Anisotropic Two-Dimensional Screening at the Surface of Black Phosphorus. Physical Review Letters, 2019, 123, 216403.	7.8	21
137	Terahertz surface modes and electron-phonon coupling on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mm (111). Physical Review Research, 2020, 2, .	2.6	21
138	Structure determination of a coadsorption phase on Ni(111). Surface Science, 1996, 351, 1-12.	1.9	20
139	Three Dirac points on the (110) surface of the topological insulator Bi_{1â^'x}Sb_x. New Journal of Physics, 2013, 15, 103011.	2.9	20
140	Absence of superconductivity in ultrathin layers of FeSe synthesized on a topological insulator. Physical Review B, 2016, 94, .	3.2	20
141	Nanoscale mapping of quasiparticle band alignment. Nature Communications, 2019, 10, 3283.	12.8	20
142	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">C</mml:mi><mml:mspace width="0.2em" /><mml:mn>1</mml:mn><mml:mi>s</mml:mi></mml:mrow></mml:math>photoemission spectrum in graphite(0001). Physical Review B, 2007, 76, .	3.2	19
143	Band structure effects on the Be(0001) acoustic surface plasmon energy dispersion. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1307-1311.	1.8	19
144	Nanoscopic diffusion of water on a topological insulator. Nature Communications, 2020, 11, 278.	12.8	19

#	Article	IF	Citations
145	The potassium-induced reconstruction of Cu{110}: the K atom adsorption site. Surface Science, 1994, 319, L7-L12.	1.9	18
146	A complementary metal-oxide-semiconductor compatible monocantilever 12-point probe for conductivity measurements on the nanoscale. Applied Physics Letters, 2008, 93, .	3.3	18
147	Photoemission investigation of oxygen intercalated epitaxial graphene on Ru(0001). Surface Science, 2018, 678, 57-64.	1.9	18
148	Growth and structure of singly oriented single-layer tungsten disulfide on Au(111). Physical Review Materials, 2019, 3, .	2.4	18
149	A scanned-energy mode photoelectron diffraction study of the structure of Ni(111)(2 Ã— 2)-O. Surface Science, 1996, 359, 185-197.	1.9	17
150	Observation of interfering Bloch waves. Europhysics Letters, 1997, 39, 67-72.	2.0	17
151	Lattice vibrations at the Be(101Ì„0) surface. Surface Science, 1997, 377-379, 330-334.	1.9	17
152	Electronic structure of graphene on a reconstructed Pt(100) surface: Hydrogen adsorption, doping, and band gaps. Physical Review B, 2013, 88, .	3.2	17
153	Excitation of Coherent Phonons in the One-Dimensional Bi(114) Surface. Physical Review Letters, 2013, 110, 136806.	7.8	17
154	Strongly anisotropic spin-orbit splitting in a two-dimensional electron gas. Physical Review B, 2015, 91, .	3.2	17
155	Sputtering an exterior metal coating on copper enclosure for large-scale growth of single-crystalline graphene. 2D Materials, 2017, 4, 045017.	4.4	17
156	Surface lattice dynamics of Mg(0001). Physical Review B, 2000, 62, 17012-17019.	3.2	16
157	Surface-sensitive conductance measurements on clean and stepped semiconductor surfaces: Numerical simulations of four point probe measurements. Surface Science, 2008, 602, 1742-1749.	1.9	15
158	Unraveling the spin structure of unoccupied states in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:m Physical Review B, 2017, 95, .	3.2	15
159	Strong-coupling charge density wave in a one-dimensional topological metal. Physical Review B, 2019, 99, .	3.2	15
160	The sub-band structure of atomically sharp dopant profiles in silicon. Npj Quantum Materials, 2020, 5, .	5.2	15
161	Accessing the spectral function of in operando devices by angle-resolved photoemission spectroscopy. AVS Quantum Science, 2021, 3, 021101.	4.9	15
162	Final-state effects on photoemission line shapes at finite temperature. Physical Review B, 2001, 63, .	3.2	14

#	Article	IF	Citations
163	Bulk Fermi surface mapping with high-energy angle-resolved photoemission. Journal of Physics Condensed Matter, 2003, 15, 6919-6930.	1.8	14
164	Structural determination of the Bi(110) semimetal surface by LEED analysis andab initiocalculations. Physical Review B, 2006, 74, .	3.2	14
165	The structure of Sb(111) determined by photoelectron diffraction. Surface Science, 2007, 601, 2908-2911.	1.9	14
166	Topological surface states on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Bi</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:m xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Sb</mml:mi><mml:mi>x</mml:mi></mml:msub></mml:m Dependence on surface orientation, termination, and stability. Physical Review B, 2014, 89, .	3.2	14
167	Manifestation of nonlocal electron-electron interaction in graphene. Physical Review B, 2016, 94, .	3.2	14
168	An open-source, end-to-end workflow for multidimensional photoemission spectroscopy. Scientific Data, 2020, 7, 442.	5.3	14
169	Quantitative structural study of the coadsorption of CO and K on Ni(111) using photoelectron diffraction. Surface Science, 1997, 393, 12-23.	1.9	13
170	Thermal switching of the electrical conductivity of Si(111)()Ag due to a surface phase transition. Journal of Physics Condensed Matter, 2007, 19, 176008.	1.8	13
171	Screening and atomic-scale engineering of the potential at a topological insulator surface. Physical Review B, 2014, 89, .	3.2	13
172	Influence of an Anomalous Temperature Dependence of the Phase Coherence Length on the Conductivity of Magnetic Topological Insulators. Physical Review Letters, 2019, 123, 036406.	7.8	13
173	Transient hot electron dynamics in single-layer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>TaS</mml:mi><mml:mn>2</mml:mn></mml:msub></m Physical Review B, 2019, 99, .	3.2	13
174	Observation and origin of the Î” manifold in Si:P Î´ layers. Physical Review B, 2020, 101, .	3.2	13
175	Momentum-resolved view of highly tunable many-body effects in a graphene/hBN field-effect device. Physical Review B, 2020, 101, .	3.2	13
176	Ultrafast electronic linewidth broadening in the C <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mi>s</mml:mi></mml:mrow></mml:m core level of graphene. Physical Review B, 2021, 104, .	3.2	13
177	The structure of the surface methoxy species on Niã€ˆ111ã€‰. Surface Science, 1995, 331-333, 201-206.	1.9	12
178	Combined TPS, XPS, EXAFS, and NO-TPD study of the sulfiding of Mo/Al2O3. Catalysis Letters, 2001, 73, 85-90.	2.6	12
179	A little twist with big consequences. Nature Materials, 2013, 12, 874-875.	27.5	12
180	One-dimensional spin texture of Bi(441): Quantum spin Hall properties without a topological insulator. Physical Review B, 2015, 91, .	3.2	12

#	Article	IF	Citations
181	Sputtering-induced reemergence of the topological surface state in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2016, 93, .	3.2	12
182	A Helium-Surface Interaction Potential of Bi2Te3(111) from Ultrahigh-Resolution Spin-Echo Measurements. Surface Science, 2018, 678, 25-31.	1.9	12
183	Momentum-resolved linear dichroism in bilayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> Physical Review B, 2019, 100, .	3.2	12
184	Accessing the Spectral Function in a Current-Carrying Device. Physical Review Letters, 2020, 125, 236403.	7.8	12
185	The adsorption site of pyridine on Ni{111} determined by low-energy photoelectron diffraction. Surface Science, 1994, 319, L1-L6.	1.9	11
186	Spatial Probability Distribution of Adsorbate Atoms. Physical Review Letters, 1996, 76, 948-951.	7.8	11
187	Anisotropic electron-phonon coupling on a two-dimensional circular Fermi contour. Physical Review B, 2009, 80, .	3.2	11
188	Nickel: The time-reversal symmetry conserving partner of iron on a chalcogenide topological insulator. Physical Review B, 2016, 94, .	3.2	11
189	Layer and orbital interference effects in photoemission from transition metal dichalcogenides. Physical Review B, 2019, 100, .	3.2	11
190	Ultrafast Triggering of Insulatorâ€“Metal Transition in Two-Dimensional VSe₂. Nano Letters, 2021, 21, 1968-1975.	9.1	11
191	Strongly enhanced electron-phonon coupling in the Rashba-split state of the Bi/Ag(111) surface alloy. Physical Review B, 2011, 83, .	3.2	10
192	Detecting the local transport properties and the dimensionality of transport of epitaxial graphene by a multi-point probe approach. Applied Physics Letters, 2013, 102, 033110.	3.3	10
193	Electroinduced Intercalation of Tetraalkylammonium Ions at the Interface of Graphene Grown on Copper, Platinum, and Iridium. ChemElectroChem, 2016, 3, 2202-2211.	3.4	10
194	Spatial variation of the two-fold anisotropic superconducting gap in a monolayer of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>FeS</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub><mml:mi mathvariant="normal">T</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> on a topological insulator. Physical Review B, 2017, 95, .	3.2	10
195	Structure of adsorbed Fe on Ni{111}. Physical Review B, 1998, 58, 6768-6771.	3.2	9
196	Interplay between electronic structure and surface phase transition on Î±-Ga(010). Physical Review B, 2003, 67, .	3.2	9
197	Optical reflectance anisotropy of Al(110): Experiment andab initiocalculation. Physical Review B, 2004, 69, .	3.2	9
198	Decoupling Molybdenum Disulfide from Its Substrate by Cesium Intercalation. Journal of Physical Chemistry C, 2020, 124, 12397-12408.	3.1	9

#	Article	IF	Citations
199	Structural and electronic inhomogeneity of superconducting Nb-doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Bi</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:math> Physical Review B, 2021, 103, .	3.2	9
200	Spectroscopic view of ultrafast charge carrier dynamics in single- and bilayer transition metal dichalcogenide semiconductors. Journal of Electron Spectroscopy and Related Phenomena, 2021, 250, 147093.	1.7	9
201	Assessment of myelination in infants and young children by T1 relaxation time measurements using the magnetization-prepared 2 rapid acquisition gradient echoes sequence. Pediatric Radiology, 2021, 51, 2058-2068.	2.0	9
202	Visualizing band structure hybridization and superlattice effects in twisted MoS₂/WS₂ heterobilayers. 2D Materials, 2022, 9, 015032.	4.4	9
203	Photoelectron diffraction study of the6Hâ^'SiC(0001)3Ã—3R30Â°reconstruction. Physical Review B, 2005, 72, .	3.2	8
204	The surface phase transition and low-temperature phase of Î±-Ga(0 1 0) studied by SPA-LEED. Surface Science, 2009, 603, 3222-3226.	1.9	8
205	Domain imaging across the magneto-structural phase transitions in Fe1+yTe. Npj Quantum Materials, 2018, 3, .	5.2	8
206	The h-index and multi-author hm-index for individual researchers in condensed matter physics. Scientometrics, 2019, 119, 171-185.	3.0	8
207	In Operando Angleâ€Resolved Photoemission Spectroscopy with Nanoscale Spatial Resolution: Spatial Mapping of the Electronic Structure of Twisted Bilayer Graphene. Small Science, 2021, 1, 2000075.	9.9	8
208	Î±-Ga(010) surface reconstruction:â€,â€,A LEED structural analysis of the(1Ã—1)room temperature and(22Ã—2)R45Â°low-temperature structures. Physical Review B, 2003, 68, .	3.2	7
209	Multilayer thermal expansion of Be(0001) determined from surface core level shifts. Europhysics Letters, 2003, 64, 364-370.	2.0	7
210	Phase diagram of hydrogen on Be(0001) from reconstruction-induced surface core-level shifts. Physical Review B, 2004, 70, .	3.2	7
211	Suppression of the Ag/Si surface conductivity transition temperature by organic adsorbates. Applied Physics Letters, 2011, 98, 052106.	3.3	7
212	Unconventional spin texture of a topologically nontrivial semimetal Sb(110). New Journal of Physics, 2012, 14, 103026.	2.9	7
213	Electronic structure of Fe_{1.08}Te bulk crystals and epitaxial FeTe thin films on Bi₂Te₃. Journal of Physics Condensed Matter, 2018, 30, 065502.	1.8	7
214	Enhanced spin-ordering temperature in ultrathin FeTe films grown on a topological insulator. Physical Review B, 2018, 97, .	3.2	7
215	Simultaneous Conduction and Valence Band Quantization in Ultrashallow High-Density Doping Profiles in Semiconductors. Physical Review Letters, 2018, 120, 046403.	7.8	7
216	Fragility of the Dirac Cone Splitting in Topological Crystalline Insulator Heterostructures. ACS Nano, 2018, 12, 617-626.	14.6	7

#	Article	IF	Citations
217	Electronâ€“phonon coupling in single-layer MoS2. Surface Science, 2019, 681, 64-69.	1.9	7
218	Electronic properties of single-layer CoO₂/Au(111). 2D Materials, 2021, 8, 035050.	4.4	7
219	Single-crystal graphene on Ir(110). Physical Review B, 2022, 105, .	3.2	7
220	Initial-state effects in scanned-energy-mode photoelectron diffraction. Physical Review B, 1994, 49, 7729-7733.	3.2	6
221	Electronic structure ofÎ±-Ga. Physical Review B, 2003, 67, .	3.2	6
222	Surface states and resonances on Al(110): Ultraviolet photoemission spectroscopy andab initiocalculations. Physical Review B, 2005, 72, .	3.2	6
223	Valence electronic properties of n-channel organic materials based on fluorinated derivatives of perylene diimides. Journal of Chemical Physics, 2008, 128, 244711.	3.0	6
224	Electronâ€“phonon coupling in the twoâ€dimensional electron gas on Bi₂Se₃. Physica Status Solidi - Rapid Research Letters, 2013, 7, 136-138.	2.4	6
225	Switching of the electron-phonon interaction in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mi>T</mml:mi></mml:mrow><mml:mn	3.2	6
	assisted by hot carriers. Physical Review B, 2021, 103, .		
226	Looking at electronic wave functions on metal surfaces. Europhysics News, 1997, 28, 148.	0.3	6
227	Quasi-free-standing single-layer WS2 achieved by intercalation. Physical Review Materials, 2018, 2, .	2.4	6
228	Fermi surface tomography. Nature Communications, 2022, 13, .	12.8	6
229	Symmetry-resolved density of states from valence band photoelectron diffraction. Physical Review B, 2001, 64, .	3.2	5
230	Evidence for bandlike dispersion inK6C60(110)films. Physical Review B, 2006, 74, .	3.2	5
231	Structure and oscillatory multilayer relaxation of the bismuth (100) surface. New Journal of Physics, 2010, 12, 063016.	2.9	5
232	Topological insulator homojunctions including magnetic layers: The example of n-p type (n-QLs) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14	3.3	5
233	The occupied electronic structure of ultrathin boron doped diamond. Nanoscale Advances, 2020, 2, 1358-1364.	4.6	5
234	Anisotropic strain in epitaxial single-layer molybdenum disulfide on Ag(110). Nanoscale, 2021, 13, 18789-18798.	5.6	5

#	Article	IF	Citations
235	Reconstruction-induced trefoil knot Fermi contour of Au(111). Physical Review B, 2016, 94, .	3.2	4
236	Dynamic cerebellar herniation in Chiari patients during the cardiac cycle evaluated by dynamic magnetic resonance imaging. Neuroradiology, 2019, 61, 825-832.	2.2	4
237	Crediting multi-authored papers to single authors. Physica A: Statistical Mechanics and Its Applications, 2020, 554, 124652.	2.6	4
238	Inelastic helium atom scattering from Sb2Te3(111): phonon dispersion, focusing effects and surfing. Physical Chemistry Chemical Physics, 2021, 23, 7806-7813.	2.8	4
239	Tuning the Doping of Epitaxial Graphene on a Conventional Semiconductor via Substrate Surface Reconstruction. Journal of Physical Chemistry Letters, 2021, 12, 1262-1267.	4.6	4
240	Uniaxially Aligned 1D Sandwich-Molecular Wires: Electronic Structure and Magnetism. Journal of Physical Chemistry C, 2022, 126, 3140-3150.	3.1	4
241	Excitation energy dependence of the ARPES intensity in Pb-doped and pristine Bi2Sr2CaCu2O8+Î´. Physica C: Superconductivity and Its Applications, 2004, 417, 1-6.	1.2	3
242	MoirÃ©-induced electronic structure modifications in monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">V</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> on Au(111). Physical Review B, 2021, 103, .	3.2	3
243	Bulk band structure of Sb₂Te₃ determined by angle-resolved photoemission spectroscopy. Physical Chemistry Chemical Physics, 2021, 23, 26401-26406.	2.8	3
244	Comment on â€œMomentum-Dependent Energy Losses in Core Level Photoemission Spectra of Poorly Conducting Metalsâ€• Physical Review Letters, 2005, 94, 209703; author reply 209704.	7.8	2
245	Publisherâ€™s Note: Kinks in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Ïƒ</mml:mi></mml:math>Band of Graphene Induced by Electron-Phonon Coupling [Phys. Rev. Lett.111, 216806 (2013)]. Physical Review Letters, 2013, 111, .	7.8	2
246	Direct methods for adsorbate structure determination using photoelectron diffraction. Journal of Electron Spectroscopy and Related Phenomena, 1995, 76, 85-90.	1.7	1
247	Thermal switching of the electrical conductivity of Si(111)(âˆš3 Ã— âˆš3)Ag due to a surface phase transition. Journal of Physics Condensed Matter, 2008, 20, 339802-339802.	1.8	1
248	Study of the electronic structure at the interface between fluorene-1-carboxylic acid molecules and Cu(110). Journal of Physics Condensed Matter, 2009, 21, 355005.	1.8	1
249	Dynamic Quantum Matter. Annalen Der Physik, 2020, 532, 2000037.	2.4	1
250	Synchrotron-Radiation Studies of Topological Insulators. Springer Proceedings in Physics, 2013, , 211-238.	0.2	1
251	Van Hove Singularities: Observation of Electrically Tunable van Hove Singularities in Twisted Bilayer Graphene from NanoARPES (Adv. Mater. 31/2020). Advanced Materials, 2020, 32, 2070230.	21.0	0
252	Disorder-induced time effect in the antiferromagnetic domain state of Fe1+Te. Journal of Magnetism and Magnetic Materials, 2021, 540, 168426.	2.3	0