

Ulrich Häfner

List of Publications by Year in descending order

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165
papers

6,884
citations

53751

45
h-index

66879

78
g-index

169
all docs

169
docs citations

169
times ranked

3665
citing authors

#	ARTICLE	IF	CITATIONS
1	Decay of electronic excitations at metal surfaces. <i>Surface Science Reports</i> , 2004, 52, 219-317.	3.8	426
2	Time-Resolved Coherent Photoelectron Spectroscopy of Quantized Electronic States on Metal Surfaces. <i>Science</i> , 1997, 277, 1480-1482.	6.0	424
3	Desorption of hydrogen from Si(100)2Å–1 at low coverages: The influence of H-bonded dimers on the kinetics. <i>Physical Review B</i> , 1992, 45, 9485-9488.	1.1	261
4	Surface diffusion of hydrogen on Si(111)7Å–7. <i>Physical Review Letters</i> , 1991, 66, 1994-1997.	2.9	167
5	Dissociative adsorption of molecular hydrogen on silicon surfaces. <i>Surface Science Reports</i> , 2006, 61, 465-526.	3.8	157
6	Electron Lifetime in a Shockley-Type Metal-Organic Interface State. <i>Physical Review Letters</i> , 2008, 101, 146801.	2.9	154
7	Subcycle observation of lightwave-driven Dirac currents in a topological surface band. <i>Nature</i> , 2018, 562, 396-400.	13.7	154
8	Initial stages of oxygen adsorption on Si(111). II. The molecular precursor. <i>Physical Review B</i> , 1989, 40, 1130-1145.	1.1	140
9	Lifetimes of image-potential states on Cu(100) and Ag(100) measured by femtosecond time-resolved two-photon photoemission. <i>Physical Review B</i> , 1998, 58, 13974-13981.	1.1	137
10	Initial stages of oxygen adsorption on Si(111): The stable state. <i>Physical Review B</i> , 1989, 39, 3720-3734.	1.1	133
11	Desorption kinetics of hydrogen from the Si(111)7Å–7 surface. <i>Journal of Chemical Physics</i> , 1991, 94, 4080-4083.	1.2	133
12	Time-Resolved Investigation of Coherently Controlled Electric Currents at a Metal Surface. <i>Science</i> , 2007, 318, 1287-1291.	6.0	131
13	Metastable molecular precursor for the dissociative adsorption of oxygen on Si(111). <i>Physical Review Letters</i> , 1985, 55, 2979-2982.	2.9	130
14	Excitation, deexcitation, and fragmentation in the core region of condensed and adsorbed water. <i>Journal of Chemical Physics</i> , 1990, 93, 58-75.	1.2	121
15	Momentum-Resolved Lifetimes of Image-Potential States on Cu(100). <i>Physical Review Letters</i> , 2002, 88, 056805.	2.9	119
16	Control of the Dephasing of Image-Potential States by CO Adsorption on Cu(100). <i>Physical Review Letters</i> , 1999, 82, 153-156.	2.9	117
17	Nonlinear optical investigations of the dynamics of hydrogen interaction with silicon surfaces. <i>Applied Physics A: Materials Science and Processing</i> , 1996, 63, 533-547.	1.1	112
18	Highly Site-Specific H ₂ Adsorption on Vicinal Si(001) Surfaces. <i>Physical Review Letters</i> , 1998, 81, 5596-5599.	2.9	100

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19	Tunable non-integer high-harmonic generation in a topological insulator. <i>Nature</i> , 2021, 593, 385-390.	13.7	98
20	High-order harmonic generation with $\hat{1}/4$ laser pulses at high repetition rates. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 074020.	0.6	96
21	Phonon-Assisted Sticking of Molecular Hydrogen on Si(111)-(7 \times 7). <i>Physical Review Letters</i> , 1995, 74, 1625-1628.	2.9	93
22	Phase transformations of an InSb surface induced by strong femtosecond laser pulses. <i>Physical Review B</i> , 1996, 53, 15878-15884.	1.1	78
23	Reaction dynamics of molecular hydrogen on silicon surfaces. <i>Physical Review B</i> , 1996, 54, 5978-5991.	1.1	75
24	Vibrationally assisted electronic desorption: Femtosecond surface chemistry of O ₂ /Pd(111). <i>Journal of Chemical Physics</i> , 1994, 100, 736-739.	1.2	73
25	Quasi-elastic scattering of electrons in image-potential states. <i>Progress in Surface Science</i> , 2007, 82, 224-243.	3.8	73
26	Femtosecond time-resolved studies of image-potential states at surfaces and interfaces of rare-gas adlayers. <i>Progress in Surface Science</i> , 2005, 80, 49-91.	3.8	72
27	Probing High-Barrier Pathways of Surface Reactions by Scanning Tunneling Microscopy. <i>Science</i> , 2002, 296, 1838-1841.	6.0	71
28	Time-Resolved Two-Photon Photoemission of Unoccupied Electronic States of Periodically Rippled Graphene on Ru(0001). <i>Physical Review Letters</i> , 2012, 108, 056801.	2.9	70
29	Optical second-harmonic investigations of H ₂ and D ₂ adsorption on Si (100) 2 \times 1: the surface temperature dependence of the sticking coefficient. <i>Chemical Physics Letters</i> , 1996, 251, 1-7.	1.2	68
30	Time-Resolved Measurement of Surface Diffusion Induced by Femtosecond Laser Pulses. <i>Physical Review Letters</i> , 2005, 94, 236103.	2.9	68
31	Effect of an Atomically Thin Dielectric Film on the Surface Electron Dynamics: Image-Potential States in the Ar/Cu(100) System. <i>Physical Review Letters</i> , 2002, 89, 046802.	2.9	64
32	Generation of Transient Photocurrents in the Topological Surface State of Sb . Direct Optical Excitation with Midinfrared Pulses. <i>Physical Review Letters</i> , 2016, 116, 076801.	2.9	63
33	Influence of Ar, Kr, and Xe layers on the energies and lifetimes of image-potential states on Cu(100). <i>Applied Physics A: Materials Science and Processing</i> , 2004, 78, 131-140.	1.1	62
34	Effect of beam energy and surface temperature on the dissociative adsorption of H ₂ on Si(001). <i>Journal of Chemical Physics</i> , 1999, 111, 10411-10414.	1.2	61
35	Open-system density-matrix approach to image-potential dynamics of electrons at Cu(100): Energy- and time-resolved two-photon photoemission spectra. <i>Physical Review B</i> , 2001, 64, .	1.1	61
36	Intervalley scattering in MoS ₂ imaged by two-photon photoemission with a high-harmonic probe. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	61

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37	Spectrally Resolved Maker Fringes in High-Order Harmonic Generation. <i>Physical Review Letters</i> , 2011, 107, 033903.	2.9	56
38	Energy shift and wave function overlap of metal-organic interface states. <i>Physical Review B</i> , 2011, 84, .	1.1	54
39	Spectroscopy and dynamics of unoccupied electronic states of the topological insulators SbTe_3 . <i>Physical Review B</i> , 2011, 84, 041404.	1.1	54
40	Structure Sensitive Reaction Channels of Molecular Hydrogen on Silicon Surfaces. <i>Physical Review Letters</i> , 2001, 86, 123-126.	2.9	52
41	Real-Space Study of the Pathway for Dissociative Adsorption of H_2 on Si(001). <i>Physical Review Letters</i> , 2002, 88, 046104.	2.9	52
42	Nonlinear optical study of the Si(111) 7\AA -7 to 1\AA -1 phase transition: Superheating and the nature of the 1\AA -1 phase. <i>Physical Review B</i> , 1995, 52, 5264-5268.	1.1	51
43	Dynamics of Electronic Transfer Processes at Metal/Insulator Interfaces. <i>Chemical Reviews</i> , 2006, 106, 4261-4280.	23.0	51
44	Adsorption of molecular oxygen on Si(111). <i>Surface Science</i> , 1989, 211-212, 948-958.	0.8	47
45	Photoemission line shapes of adsorbates: Conclusions from the analysis of vibration-resolved N_2 spectra. <i>Physical Review Letters</i> , 1990, 64, 3050-3053.	2.9	47
46	Resonant interband scattering of image-potential states. <i>Applied Physics B: Lasers and Optics</i> , 2001, 73, 865-868.	1.1	45
47	Momentum-Resolved Observation of Exciton Formation Dynamics in Monolayer WS_2 . <i>Nano Letters</i> , 2021, 21, 5867-5873.	4.5	45
48	Influence of Xe adlayer morphology and electronic structure on image-potential state lifetimes of Ru(0001). <i>Chemical Physics</i> , 2000, 251, 123-132.	0.9	43
49	Model potential for the description of metal/organic interface states. <i>Scientific Reports</i> , 2017, 7, 46561.	1.6	43
50	Covalency in oxygen chemisorption as probed by x-ray absorption. <i>Physical Review B</i> , 1989, 40, 7924-7927.	1.1	42
51	Kinetics of oxygen dissociation on Si(111) 7\AA -7 investigated with optical second-harmonic generation. <i>Physical Review B</i> , 1994, 49, 14070-14073.	1.1	42
52	Tracing orbital images on ultrafast time scales. <i>Science</i> , 2021, 371, 1056-1059.	6.0	42
53	Formation of an Organic/Metal Interface State from a Shockley Resonance. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 50-55.	2.1	41
54	Time-Resolved Two-Photon Photoemission of Buried Interface States in Ar/Cu(100). <i>Physical Review Letters</i> , 2005, 94, 017401.	2.9	39

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55	Hydrogen diffusion on silicon surfaces. <i>Progress in Surface Science</i> , 2013, 88, 61-101.	3.8	38
56	Equilibrium and nonequilibrium hydrogen coverages on vicinal Si(001) surfaces: Diffusion barriers and binding energies. <i>Physical Review B</i> , 1999, 59, 2783-2789.	1.1	37
57	Decay and dephasing of image-potential states due to surface defects and disorder. <i>Applied Physics B: Lasers and Optics</i> , 1999, 68, 377-381.	1.1	37
58	Real-space investigation of fast diffusion of hydrogen on Si(001) by a combination of nanosecond laser heating and STM. <i>Physical Review B</i> , 2007, 75, .	1.1	37
59	Decoupling of image-potential states by Ar mono- and multilayers. <i>Chemical Physics Letters</i> , 2002, 358, 502-508.	1.2	36
60	Momentum-resolved dynamics of Ar/Cu(111) interface states probed by time-resolved two-photon photoemission. <i>New Journal of Physics</i> , 2005, 7, 103-103.	1.2	36
61	Ultrafast energy- and momentum-resolved surface Dirac photocurrents in the topological insulator Physical Review B, 2017, 95, .	1.1	36
62	Electronic structure at the perylene-tetracarboxylic acid dianhydride/Ag(111) interface studied with two-photon photoelectron spectroscopy. <i>Journal of Chemical Physics</i> , 2009, 131, 144701.	1.2	35
63	Quantum-beat spectroscopy of image-potential resonances. <i>Physical Review B</i> , 2011, 84, .	1.1	35
64	Chemoselective Reactivity of Bifunctional Cyclooctynes on Si(001). <i>Journal of Physical Chemistry C</i> , 2016, 120, 26284-26289.	1.5	35
65	Time-resolved coherent spectroscopy of surface states. <i>Applied Physics B: Lasers and Optics</i> , 1999, 68, 383-392.	1.1	34
66	Five-Wave-Mixing Spectroscopy of Ultrafast Electron Dynamics at a Si(001) Surface. <i>Physical Review Letters</i> , 2004, 92, 127405.	2.9	34
67	Complex Surface Chemistry of an Otherwise Inert Solvent Molecule: Tetrahydrofuran on Si(001). <i>ChemPhysChem</i> , 2014, 15, 3725-3728.	1.0	34
68	Site-selective reactivity of ethylene on clean and hydrogen precovered Si(001). <i>Chemical Physics Letters</i> , 2009, 483, 209-213.	1.2	32
69	Structural Evolution of Perfluoro-Pentacene Films on Ag(111): Transition from 2D to 3D Growth. <i>Langmuir</i> , 2011, 27, 993-999.	1.6	32
70	Ultrafast Charge-Transfer Dynamics in Twisted MoS ₂ /WSe ₂ Heterostructures. <i>ACS Nano</i> , 2021, 15, 14725-14731.	7.3	32
71	Ultrafast carrier dynamics in Si(111) dangling bonds probed by time-resolved second-harmonic generation and two-photon photoemission. <i>Physical Review B</i> , 2006, 73, .	1.1	31
72	Dissociative Adsorption of Diethyl Ether on Si(001) Studied by Means of Scanning Tunneling Microscopy and Photoelectron Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2015, 119, 6018-6023.	1.5	31

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73	Formation of metal-organic interface states studied with 2PPE. Journal of Electron Spectroscopy and Related Phenomena, 2014, 195, 263-271.	0.8	30
74	Dynamically coupled plasmon-phonon modes in GaP: An indirect-gap polar semiconductor. Physical Review B, 2015, 92, .	1.1	30
75	Chemisorption energy of hydrogen on silicon surfaces. Physical Review B, 2001, 63, .	1.1	28
76	Intrinsic coherent acoustic phonons in the indirect band gap semiconductors Si and GaP. Physical Review B, 2017, 95, .	1.1	26
77	Stereochemistry on Si(001): Angular Dependence of H ₂ Dissociation. Physical Review Letters, 2002, 88, 076107.	2.9	25
78	Laser-induced diffusion of oxygen on a stepped Pt(111) surface. Surface Science, 2005, 593, 54-66.	0.8	25
79	Adsorption dynamics of ethylene on Si(001). Journal of Chemical Physics, 2012, 136, 144703.	1.2	25
80	Temperature Dependent Structural Phase Transition at the Perfluoropentacene/Ag(111) Interface. Journal of Physical Chemistry C, 2012, 116, 1904-1911.	1.5	24
81	Real-space investigation of hydrogen dissociation at step sites of vicinal Si(001) surfaces. Physical Review B, 2001, 63, .	1.1	23
82	Electron lifetimes in image-potential states at metal-dielectric interfaces. Progress in Surface Science, 2003, 74, 219-237.	3.8	23
83	Real-space adsorption studies of cyclooctyne on Si(001). Chemical Physics Letters, 2013, 556, 70-76.	1.2	23
84	Coherent phonon spectroscopy characterization of electronic bands at buried semiconductor heterointerfaces. Applied Physics Letters, 2016, 108, 051607.	1.5	23
85	Influence of steps and defects on the dissociative adsorption of molecular hydrogen on silicon surfaces. Applied Physics B: Lasers and Optics, 1999, 68, 649-655.	1.1	21
86	Inelastic decay of electrons in Shockley-type metal-organic interface states. Physical Review B, 2015, 92, .	1.1	21
87	Self-Trapping of Electrons at Surfaces. Science, 1998, 279, 190-191.	6.0	20
88	Molecular beam investigation of hydrogen dissociation on Si(001) and Si(111) surfaces. Journal of Chemical Physics, 2004, 121, 8058.	1.2	20
89	Time-resolved measurements of electron transfer processes at the PTCDA/Ag(111) interface. European Physical Journal B, 2010, 75, 23-30.	0.6	20
90	Electronic structure and excited state dynamics in optically excited PTCDA films investigated with two-photon photoemission. Journal of Chemical Physics, 2013, 139, 124701.	1.2	20

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91	Optical second-harmonic investigations of the isothermal desorption of SiO from the Si(100) and Si(111) surfaces. <i>Surface Science</i> , 1998, 410, 351-361.	0.8	19
92	Formation of image-potential states at the graphene/metal interface. <i>New Journal of Physics</i> , 2015, 17, 103043.	1.2	19
93	Binding Energy and Dissociation Barrier: Experimental Determination of the Key Parameters of the Potential Energy Curve of Diethyl Ether on Si(001). <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3971-3975.	2.1	18
94	Time-domain investigation of laser-induced diffusion of CO on a vicinal Pt(111) surface. <i>Physical Review B</i> , 2009, 80, .	1.1	17
95	Trapping of Image-Potential Resonances on a Free-Electron-like Surface. <i>Physical Review Letters</i> , 2011, 107, 236801.	2.9	17
96	Momentum-resolved electron dynamics of image-potential states on Cu and Ag surfaces. <i>Physical Review B</i> , 2012, 85, .	1.1	17
97	Formation of Si/organic interfaces using alkyne-functionalized cyclooctynesâ€”precursor-mediated adsorption of linear alkynes versus direct adsorption of cyclooctyne on Si(0â€”1). <i>Journal of Physics Condensed Matter</i> , 2019, 31, 034001.	0.7	17
98	Physisorbed Template for Spatial Patterning of Adsorbates. <i>Physical Review Letters</i> , 1997, 79, 3459-3462.	2.9	16
99	Dynamics of femtosecond-laser-induced lateral motion of an adsorbate: O on vicinal Pt(111). <i>Journal of Physics Condensed Matter</i> , 2006, 18, S1409-S1424.	0.7	16
100	Observation of the transition from image-potential states to resonances on argon-covered Cu(111) and Ag(111) by time-resolved two-photon photoemission. <i>Physical Review B</i> , 2009, 80, .	1.1	16
101	Adsorptionâ€”Desorption of H ₂ /Si: A 5-D Dynamical Model. <i>Physica Status Solidi A</i> , 1997, 159, 75-90.	1.7	15
102	Adsorption of Methanol on Si(001): Reaction Channels and Energetics. <i>Journal of Physical Chemistry C</i> , 2018, 122, 14756-14760.	1.5	15
103	Determination of adsorbate orientation by means of angle-resolved Auger fine structure: CO on Ni(110). <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1993, 62, 1-22.	0.8	14
104	Time-resolved two-color interferometric photoemission of image-potential states on Cu(100). <i>Applied Physics A: Materials Science and Processing</i> , 2006, 85, 345-350.	1.1	14
105	Electronic Structure of Titanylphthalocyanine Layers on Ag(111). <i>Journal of Physical Chemistry C</i> , 2017, 121, 25353-25363.	1.5	14
106	Directional ultrafast charge transfer in a WSe ₂ /MoSe ₂ heterostructure selectively probed by time-resolved SHG imaging microscopy. <i>Nanoscale Horizons</i> , 2020, 5, 1603-1609.	4.1	14
107	Second-Harmonic Diffraction from a Transient Population Grating of Silicon Dangling Bonds. <i>Physica Status Solidi A</i> , 1999, 175, 169-176.	1.7	13
108	Adsorption geometry and interface states: Relaxed and compressed phases of NTCD/Ag(111). <i>Physical Review B</i> , 2016, 94, .	1.1	13

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109	Magnetic-impurity-induced modifications to ultrafast carrier dynamics in the ferromagnetic topological insulators $\text{Sb}_{2-x}\text{V}_x\text{Te}_3$. <i>New Journal of Physics</i> , 2019, 21, 093006.	1.2	13
110	Controlling an S_2N_2 Reaction by Electronic and Vibrational Excitation: Tip-Induced Ether Cleavage on Si(001). <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3417-3420.	7.2	13
111	Momentum-resolved observation of ultrafast interlayer charge transfer between the topmost layers of MoS_2 . <i>Physical Review B</i> , 2020, 102, .		13
112	Sub-picosecond acoustic pulses at buried GaP/Si interfaces. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	12
113	Image-potential state lifetimes in Ar/Cu(100). <i>Surface Science</i> , 2004, 564, 87-92.	0.8	11
114	Adsorption dynamics of tetrahydrofuran on Si(001) studied by means of molecular beam techniques. <i>Chemical Physics Letters</i> , 2015, 624, 69-73.	1.2	11
115	Laser-induced desorption of Ar from Cu(100) probed by two-photon photoemission spectroscopy of image-potential states. <i>Surface Science</i> , 2004, 548, L13-L20.	0.8	10
116	Surface Chemistry of <i>tert</i> -Butylphosphine (TBP) on Si(001) in the Nucleation Phase of Thin-Film Growth. <i>Chemistry - A European Journal</i> , 2016, 22, 14920-14928.	1.7	10
117	Energy dependent sticking coefficients of trimethylamine on Si(001) – Influence of the datively bonded intermediate state on the adsorption dynamics. <i>Surface Science</i> , 2016, 653, 118-122.	0.8	10
118	Resolubility of image-potential resonances. <i>Surface Science</i> , 2016, 643, 203-209.	0.8	10
119	Two-photon photoemission spectroscopy of unoccupied electronic states at CuPc/PTCDA/Ag(111) interfaces. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 494001.	0.7	10
120	Femtosecond time-resolved five-wave mixing at silicon surfaces. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S221-S244.	0.7	9
121	High-temperature investigation of intradimer diffusion of hydrogen on Si(001). <i>Physical Review B</i> , 2010, 82, .	1.1	9
122	Photoluminescence study of the exciton dynamics at PTCDA/noble-metal interfaces. <i>Physical Review B</i> , 2019, 99, .	1.1	9
123	Coherent optical and acoustic phonons generated at lattice-matched GaP/Si(001) heterointerfaces. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 094003.	0.7	8
124	Vibrational excitation in UV-photoemission of absorbates. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1990, 54-55, 591-600.	0.8	7
125	Temperature dependence of the dynamics of the first image-potential state on Ag(111). <i>Physical Review B</i> , 2012, 86, .	1.1	7
126	Application of a time-of-flight spectrometer with delay-line detector for time- and angle-resolved two-photon photoemission. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2015, 202, 74-80.	0.8	7

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127	Reaction Dynamics of H ₂ /Si: A 5-D Model. Springer Series in Solid-state Sciences, 1996, , 3-25.	0.3	7
128	Nonlinear optical investigations of the dynamics of hydrogen interaction with silicon surfaces. Applied Physics A: Materials Science and Processing, 1996, 63, 533-547.	1.1	7
129	Diffusion pathways of hydrogen across the steps of a vicinal Si(001) surface. Physical Review B, 2007, 75, .	1.1	6
130	Adsorption geometry and electronic properties of flat-lying monolayers of tetracene on the Ag(111) surface. Physical Review B, 2016, 94, .	1.1	6
131	Photoelectron spectroscopy of Ar/Cu(100) interface states. Applied Physics A: Materials Science and Processing, 2007, 88, 527-534.	1.1	5
132	Real-space investigation of high-barrier hydrogen diffusion across the dimer rows of Si(001). Physical Review B, 2009, 80, .	1.1	5
133	Second-harmonic generation as a probe for structural and electronic properties of buried GaP/Si(001) interfaces. Journal of Physics Condensed Matter, 2018, 30, 484001.	0.7	5
134	Femtosecond time-resolved nonlinear optical spectroscopy of charge transfer at the buried GaP/Si(001) interface. Applied Physics Letters, 2020, 117, .	1.5	5
135	Temperature effects on the formation and the relaxation dynamics of metal-organic interface states. Physical Review B, 2020, 102, .	1.1	5
136	Electric-Field-Induced Depolarization of Si-C Bond Leads to a Strongly Reduced Barrier for Alkyl-Hopping on Si(001). Journal of Physical Chemistry C, 2020, 124, 5270-5274.	1.5	5
137	Ultrafast Dynamics of Photocurrents in Surface States of Three-Dimensional Topological Insulators. Physica Status Solidi (B): Basic Research, 2021, 258, 2000521.	0.7	5
138	Comment on "Atomistic View of the Recombinative Desorption of H ₂ from H/Si(100)". Physical Review Letters, 2006, 96, 209601; discussion 209602.	2.9	3
139	Generation and time-resolved detection of coherently controlled electric currents at surfaces. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 461-465.	0.8	3
140	Second-harmonic microscopy for fluence-dependent investigation of laser-induced surface reactions. Physical Review B, 2011, 83, .	1.1	3
141	Dynamics of proton transfer reactions on silicon surfaces: OH-dissociation of methanol and water on Si(001). Journal of Chemical Physics, 2019, 150, 224703.	1.2	3
142	Ultrafast surface Dirac fermion dynamics of Sb ₂ Te ₃ -based topological insulators. Progress in Surface Science, 2021, 96, 100628.	3.8	3
143	Reaction Dynamics of Molecular Hydrogen on Silicon Surfaces: Importance of Lattice Degrees of Freedom. Springer Series in Surface Sciences, 2013, , 239-265.	0.3	3
144	Lifetime Effects of Xenon Adsorption on the Image-Potential States of Ru(0001). Springer Series in Chemical Physics, 1998, , 330-332.	0.2	3

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145	Second-harmonic imaging microscopy for time-resolved investigations of transition metal dichalcogenides. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 485901.	0.7	3
146	Impact of interface-state formation on the charge-carrier dynamics at organic-metal interfaces. <i>New Journal of Physics</i> , 2020, 22, 093042.	1.2	3
147	Time-resolved two-photon photoemission at metal-dielectric interfaces. <i>Israel Journal of Chemistry</i> , 2005, 45, 181-194.	1.0	2
148	Spectroscopy and Dynamics of a Two-Dimensional Electron Gas on Ultrathin Helium Films on Cu(111). <i>Physical Review Letters</i> , 2016, 116, 256801.	2.9	2
149	Tip-induced \hat{I}^2 -hydrogen dissociation in an alkyl group bound on Si(001). <i>Journal of Physics Condensed Matter</i> , 2021, 33, 344004.	0.7	2
150	Ultrafast dynamics of photoinduced processes at surfaces and interfaces. , 2007, , 387-484.		2
151	Terahertz radiation from propagating acoustic phonons based on deformation potential coupling. <i>Optics Express</i> , 2022, 30, 23544.	1.7	2
152	Momentum space view of the ultrafast dynamics of surface photocurrents on topological insulators. <i>Proceedings of SPIE</i> , 2017, , .	0.8	1
153	Controlling an S_{N2} Reaction by Electronic and Vibrational Excitation: Tip-Induced Ether Cleavage on Si(001). <i>Angewandte Chemie</i> , 2019, 131, 3455-3458.	1.6	1
154	Adsorption dynamics of bifunctional molecules: Allyl methyl ether on Si(001). <i>Journal of Chemical Physics</i> , 2021, 154, 124708.	1.2	1
155	Separation of interface and substrate carrier dynamics at a heterointerface based on coherent phonons. <i>Physical Review B</i> , 2022, 105, .	1.1	1
156	Information from vibration-resolved uv photoemission spectra of physisorbates. <i>Vacuum</i> , 1990, 41, 431-432.	1.6	0
157	Ultrafast coherent control of electric currents at metal surfaces. <i>Proceedings of SPIE</i> , 2010, , .	0.8	0
158	Preface: fresh perspectives on internal interfaces. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 500301.	0.7	0
159	Controlling condensed matter with lightwave fields and forces. , 2021, , .		0
160	Generation and Time-Resolved Detection of Coherently Controlled Electric Currents at Surfaces. , 2008, , .		0
161	Dephasing of Image-Potential States on Cu(100) upon CO Adsorption Measured by Femtosecond Two-Photon Photoemission Spectroscopy. <i>Springer Series in Chemical Physics</i> , 1998, , 333-335.	0.2	0
162	Terahertz subcycle control of charge, spin & pseudospin. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
163	Subcycle band structure movie of lightwave-driven Dirac currents. , 2019, , .		0
164	Lightwave control of Dirac electrons and the valley pseudospin. , 2019, , .		0
165	Terahertz lightwave electronics and valleytronics. , 2019, , .		0