

Peter Kratzer

List of Publications by Year in descending order

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150
papers

5,286
citations

66343
42
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152
docs citations

152
times ranked

4393
citing authors

#	ARTICLE	IF	CITATIONS
1	A theoretical study of CH ₄ dissociation on pure and gold-alloyed Ni(111) surfaces. <i>Journal of Chemical Physics</i> , 1996, 105, 5595-5604.	3.0	262
2	Preserving the Half-Metallicity at the Heusler Alloy Co ₂ MnSi(001) Surface: A Density Functional Theory Study. <i>Physical Review Letters</i> , 2005, 94, 096402.	7.8	167
3	Effect of the cluster size in modeling the H ₂ desorption and dissociative adsorption on Si(001). <i>Journal of Chemical Physics</i> , 1999, 110, 3986-3994.	3.0	162
4	Atomic Structure of the GaAs(001)-(2̄-4) Surface Resolved Using Scanning Tunneling Microscopy and First-Principles Theory. <i>Physical Review Letters</i> , 1999, 83, 2989-2992.	7.8	159
5	Formation and Stability of Self-Assembled Coherent Islands in Highly Mismatched Heteroepitaxy. <i>Physical Review Letters</i> , 1999, 82, 4042-4045.	7.8	147
6	Role of Electronic Correlation in the Si(100) Reconstruction: A Quantum Monte Carlo Study. <i>Physical Review Letters</i> , 2001, 87, 016105.	7.8	146
7	Magnetism in C- or N-doped MgO and ZnO: A Density-Functional Study of Impurity Pairs. <i>Physical Review Letters</i> , 2010, 105, 267203.	7.8	111
8	Geometric and electronic factors determining the differences in reactivity of H ₂ on Cu(100) and Cu(111). <i>Surface Science</i> , 1996, 359, 45-53.	1.9	100
9	Highly Site-Specific H ₂ Adsorption on Vicinal Si(001) Surfaces. <i>Physical Review Letters</i> , 1998, 81, 5596-5599.	7.8	100
10	Size, shape, and stability of InAs quantum dots on the GaAs(001) substrate. <i>Physical Review B</i> , 2000, 62, 1897-1904.	3.2	96
11	Probing Interface Electronic Structure with Overlayer Quantum-Well Resonances: Al/Si(111). <i>Physical Review Letters</i> , 2001, 87, 156801.	7.8	95
12	Highly excited molecules from Eley-Rideal reactions. <i>Surface Science</i> , 1991, 254, 275-280.	1.9	93
13	Effect of strain on surface diffusion in semiconductor heteroepitaxy. <i>Physical Review B</i> , 2001, 64, .	3.2	92
14	Reaction-Limited Island Nucleation in Molecular Beam Epitaxy of Compound Semiconductors. <i>Physical Review Letters</i> , 2002, 88, 036102.	7.8	88
15	Reaction dynamics of atomic hydrogen with the hydrogenated Si(001) (2̄-1) surface. <i>Journal of Chemical Physics</i> , 1997, 106, 6752-6763.	3.0	87
16	First-principles studies of kinetics in epitaxial growth of III-V semiconductors. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 75, 79-88.	2.3	86
17	Direct pathway for sticking/desorption of H ₂ on Si(100). <i>Physical Review B</i> , 1995, 51, 13432-13440.	3.2	84
18	Arsenic Dimer Dynamics during MBE Growth: Theoretical Evidence for a Novel Chemisorption State of As ₂ Molecules on GaAs Surfaces. <i>Physical Review Letters</i> , 1999, 82, 4886-4889.	7.8	83

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19	Quantum Monte Carlo Calculations of H ₂ Dissociation on Si(001). Physical Review Letters, 2002, 89, 166102.	7.8	83
20	Tight-binding study of the influence of the strain on the electronic properties of InAs/GaAs quantum dots. Physical Review B, 2003, 68, .	3.2	81
21	Shape transition during epitaxial growth of InAs quantum dots on GaAs(001): Theory and experiment. Physical Review B, 2006, 73, .	3.2	80
22	Electronic and Structural Differences between Wurtzite and Zinc Blende InAs Nanowire Surfaces: Experiment and Theory. ACS Nano, 2014, 8, 12346-12355.	14.6	78
23	Designing surface alloys with specific active sites. Catalysis Letters, 1996, 40, 131-135.	2.6	77
24	Understanding the growth mechanisms of GaAs and InGaAs thin films by employing first-principles calculations. Applied Surface Science, 2003, 216, 436-446.	6.1	77
25	Reaction dynamics of molecular hydrogen on silicon surfaces. Physical Review B, 1996, 54, 5978-5991.	3.2	75
26	Density-Functional Theory Study of Half-Metallic Heterostructures: Interstitial Mn in Si. Physical Review Letters, 2007, 98, 117202.	7.8	71
27	Thermodynamics of the Heusler alloy $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ display="block">\text{Co}$ \rangle . A combined density functional theory and cluster expansion s. Physical Review B, 2009, 79, .	7.8	71
28	First-Principles Study of Ferromagnetism in Epitaxial Si-Mn Thin Films on Si(001). Physical Review Letters, 2004, 92, 237202.	7.8	66
29	Ordering of the Nanoscale Step Morphology As a Mechanism for Droplet Self-Propulsion. Nano Letters, 2009, 9, 2710-2714.	9.1	66
30	The coupling between adsorption dynamics and the surface structure: H ₂ on Si(100). Chemical Physics Letters, 1994, 229, 645-649.	2.6	65
31	Control of fine-structure splitting and excitonic binding energies in selected individual InAs ⁺ GaAs quantum dots. Applied Physics Letters, 2006, 89, 263109.	3.3	60
32	Direct Atomic Scale Imaging of III ⁺ V Nanowire Surfaces. Nano Letters, 2008, 8, 3978-3982.	9.1	59
33	Analytic many-body potential for InAs/GaAs surfaces and nanostructures: Formation energy of InAs quantum dots. Physical Review B, 2008, 77, .	3.2	57
34	The Basics of Electronic Structure Theory for Periodic Systems. Frontiers in Chemistry, 2019, 7, 106.	3.6	57
35	First-principles study of spin-dependent thermoelectric properties of half-metallic Heusler thin films between platinum leads. Physical Review B, 2014, 89, .	3.2	56
36	Epitaxy of Mn on Si(001): Adsorption, surface diffusion, and magnetic properties studied by density-functional theory. Physical Review B, 2006, 74, .	3.2	54

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37	Calculation of the diameter-dependent polytypism in GaAs nanowires from an atomic motif expansion of the formation energy. Physical Review B, 2011, 84, .	3.2	53
38	Anisotropic diffusion of In adatoms on pseudomorphic $In_xGa_{1-x}As$ films: First-principles total energy calculations. Physical Review B, 2004, 69, .	3.2	52
39	GaAs(2511): A New Stable Surface within the Stereographic Triangle. Physical Review Letters, 2001, 86, 3815-3818.	7.8	49
40	Model for nucleation in GaAs homoepitaxy derived from first principles. Physical Review B, 1999, 59, 15246-15252.	3.2	47
41	Exchange interactions and critical temperature of bulk and thin films of MnSi: A density functional theory study. Physical Review B, 2008, 78, .	3.2	46
42	First-principles study of thin magnetic transition-metal silicide films on Si(001). Physical Review B, 2005, 72, .	3.2	45
43	Band structure and thermoelectric properties of half-Heusler semiconductors from many-body perturbation theory. Physical Review B, 2018, 97, .	3.2	43
44	Hydrogen vibrational modes on graphene and relaxation of the C-H stretch excitation from first-principles calculations. Journal of Chemical Physics, 2010, 133, 054505.	3.0	40
45	Atomic Structure of the $GeAs(001)\tilde{c}(4\bar{A}-4)$ Surface: First-Principles Evidence For Diversity of Heterodimer Motifs. Physical Review Letters, 2004, 93, 146102. Structural Stability and Magnetic and Electronic Properties of $\text{Mn}_x\text{Si}_{1-x}$ xmlns:mml="http://www.w3.org/1998/Math/MathML" display="block"> $\text{Co} \times 2 \times \text{Mn} \times \text{MnSi}$	7.8	39
46	A Density-Functional Theory Study. Physical Review Letters, 2009, 103, 046802. Elastic response of cubic crystals to biaxial strain: Analytic results and comparison to density functional theory for InAs. Physical Review B, 2007, 75, .	3.2	35
48	Density-functional study of hydrogen chemisorption on vicinal Si(001) surfaces. Physical Review B, 1999, 59, 2790-2800.	3.2	34
49	Growth mode and atomic structure of MnSi thin films on Si(111). Physical Review B, 2012, 86, .	3.2	33
50	Reduced thermal conductivity of TiNiSn/HfNiSn superlattices. Physical Review B, 2015, 92, .	3.2	33
51	Ternary semiconductors NiZrSn and CoZrBi with half-Heusler structure: A first-principles study. Physical Review B, 2016, 94, .	3.2	32
52	Ab initio quantum dynamics of adsorption/desorption on a 3-D potential. Surface Science, 1996, 345, 125-137.	1.9	31
53	Electron-hole spectra created by adsorption on metals from density functional theory. Physical Review B, 2009, 79, .	3.2	31
54	Anisotropic ferromagnetism in carbon-doped zinc oxide from first-principles studies. Physical Review B, 2012, 86, .	3.2	31

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55	D2 dissociative adsorption on and associative desorption from Si(100): Dynamic consequences of an ab initio potential energy surface. <i>Journal of Chemical Physics</i> , 1996, 104, 3075-3091.	3.0	30
56	InAs quantum dots grown on the GaAs(113)A and GaAs(1 $\bar{1}$ 1 $\bar{1}$ 3 $\bar{1}$)B surfaces: A comparative STM study. <i>Physical Review B</i> , 2003, 68, .	3.2	30
57	Density-functional study of Mn monosilicide on the Si(111) surface: Film formation versus island nucleation. <i>Physical Review B</i> , 2007, 76, .	3.2	30
58	Catalytic Role of Gold Nanoparticle in GaAs Nanowire Growth: A Density Functional Theory Study. <i>Nano Letters</i> , 2012, 12, 943-948.	9.1	30
59	Indium surface diffusion on InAs \langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \times	3.2	30
60	Spincaloric properties of epitaxial Co \times Mn ₃₂ tunnel junctions. <i>Physical Review B</i> , 2015, 92, .	3.2	30
61	Atomic Structure of the Stoichiometric GaAs(114) Surface. <i>Physical Review Letters</i> , 2001, 86, 115-118.	7.8	28
62	Electronic structure changes of Si(001) $\tilde{\alpha}$ (2 $\tilde{\Lambda}$ -1) from subsurface Mn observed by STM. <i>Physical Review B</i> , 2007, 75, .	3.2	28
63	Two-dimensional electron gases: Theory of ultrafast dynamics of electron-phonon interactions in graphene, surfaces, and quantum wells. <i>Journal of Applied Physics</i> , 2009, 105, 122409.	2.5	28
64	Island dissolution during capping layer growth interruption. <i>Applied Physics A: Materials Science and Processing</i> , 2001, 73, 161-165.	2.3	27
65	Density-functional theory study of vibrational relaxation of CO stretching excitation on Si(100). <i>Journal of Chemical Physics</i> , 2008, 129, 174702.	3.0	27
66	As vacancies, Ga antisites, and Au impurities in zinc blende and wurtzite GaAs nanowire segments from first principles. <i>Physical Review B</i> , 2013, 87, .	3.2	27
67	The dynamics of the H + D/Si(001) reaction: a trajectory study based on ab initio potentials. <i>Chemical Physics Letters</i> , 1998, 288, 396-402.	2.6	26
68	Thermoelectric transport in periodic one-dimensional stacks of InAs/GaAs quantum dots. <i>Physical Review B</i> , 2010, 82, .	3.2	26
69	Chemisorption and Physisorption at the Metal/Organic Interface: Bond Energies of Naphthalene and Azulene on Coinage Metal Surfaces. <i>Journal of Physical Chemistry C</i> , 2020, 124, 8257-8268.	3.1	26
70	Role of sidewall diffusion in GaAs nanowire growth: A first-principles study. <i>Physical Review B</i> , 2012, 86, .	3.2	25
71	Surface structure of GaAs(2 5 11). <i>Physical Review B</i> , 2002, 65, .	3.2	24
72	Density functional study of carbon doping in ZnO. <i>Semiconductor Science and Technology</i> , 2011, 26, 014038	2.0	24

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73	Native defects in the Co_2Z full Heusler alloy. Formation and. <i>Physical Review B</i> , 2017, 96, .	3.2	24
74	Density-functional theory studies on microscopic processes of gaas growth. <i>Progress in Surface Science</i> , 1998, 59, 135-147.	8.3	22
75	Surface knowledge: toward a predictive theory of materials. <i>Computing in Science and Engineering</i> , 2001, 3, 16-25.	1.2	21
76	Atomistic modeling of the Au droplet-GaAs interface for size-selective nanowire growth. <i>Physical Review B</i> , 2013, 88, .	3.2	21
77	Au wetting and nanoparticle stability on GaAs(111)B. <i>Applied Physics Letters</i> , 2006, 89, 251912.	3.3	20
78	Molecule-Metal Bond of Alternant versus Nonalternant Aromatic Systems on Coinage Metal Surfaces: Naphthalene versus Azulene on Ag(111) and Cu(111). <i>Journal of Physical Chemistry C</i> , 2019, 123, 29219-29230.	3.1	20
79	Interplay of growth mode and thermally induced spin accumulation in epitaxial Al/Co/AI/Co/As/GaAs(001) heterostructures. <i>Physical Review B</i> , 2014, 89, .	3.2	19
80	Commensurate versus incommensurate heterostructures of group-III monochalcogenides. <i>Physical Review Materials</i> , 2018, 2, .	2.4	19
81	Analytic many-body potential for GaAs(001) homoepitaxy: Bulk and surface properties. <i>Physical Review B</i> , 2011, 83, .	3.2	18
82	Energetics of InAs Thin Films and Islands on the GaAs(001) Substrate. <i>Japanese Journal of Applied Physics</i> , 2000, 39, 4298-4301.	1.5	17
83	In adatom diffusion on In _x Ga _{1-x} As/GaAs(001): effects of strain, reconstruction and composition. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 355007.	1.8	16
84	Strain stabilization and thickness dependence of magnetism in epitaxial transition metal monosilicide thin films on Si(111). <i>Physical Review B</i> , 2013, 88, .	3.2	16
85	Mode conversion and long-lived vibrational modes in lead monolayers on silicon (111) after femtosecond laser excitation: A molecular dynamics simulation. <i>Physical Review B</i> , 2013, 88, .	3.2	15
86	Indium coverage of the Si(111)-In surface. <i>Physical Review B</i> , 2017, 96, .	3.2	15
87	Transition-metal silicides as materials for magnet-semiconductor heterostructures. <i>Journal of Applied Physics</i> , 2007, 101, 081725.	2.5	14
88	Effect of post-growth annealing on the optical properties of InAs/GaAs quantum dots: A tight-binding study. <i>Journal of Applied Physics</i> , 2007, 102, 023711.	2.5	14
89	Adsorption of indium on an InAs wetting layer deposited on the GaAs(001) surface. <i>Physical Review B</i> , 2008, 77, .	3.2	14
90	Searching for Si-based spintronics by first principles calculations. <i>New Journal of Physics</i> , 2009, 11, 125009.	2.9	14

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91	Crystal Structure Induced Preferential Surface Alloying of Sb on Wurtzite/Zinc Blende GaAs Nanowires. <i>Nano Letters</i> , 2017, 17, 3634-3640.	9.1	14
92	All-electron real-time and imaginary-time time-dependent density functional theory within a numeric atom-centered basis function framework. <i>Journal of Chemical Physics</i> , 2021, 155, 154801.	3.0	14
93	Isotope effects in the vibrational lifetime of hydrogen on germanium(100): Theory and experiment. <i>Journal of Chemical Physics</i> , 2009, 131, 124502.	3.0	13
94	Electronic excitations in magnesium epitaxy: Experiment and theory. <i>Physical Review B</i> , 2010, 82, .	3.2	13
95	Comparison of density functionals for nitrogen impurities in ZnO. <i>Journal of Chemical Physics</i> , 2013, 138, 234702.	3.0	13
96	Magnetic monolayer Li ₂ N: Density Functional Theory calculations. <i>Europhysics Letters</i> , 2017, 119, 57002.	2.0	13
97	Spin caloric transport from density-functional theory. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 073001.	2.8	13
98	Large Seebeck magnetic anisotropy in thin Co films embedded in Cu determined by <i>ab initio</i> investigations. <i>Physical Review B</i> , 2013, 88, .	3.2	12
99	Structure and morphology of the As-rich and the stoichiometric GaAs(114)A surface. <i>Journal of Applied Physics</i> , 2004, 95, 7645-7654.	2.5	11
100	The role of the van der Waals interactions in the adsorption of anthracene and pentacene on the Ag(111) surface. <i>Journal of Chemical Physics</i> , 2017, 146, 034702.	3.0	11
101	Enhanced electronic and magnetic properties by functionalization of monolayer GaS via substitutional doping and adsorption. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 195805.	1.8	11
102	Signatures of the Dichalcogenide-Gold Interaction in the Vibrational Spectra of MoS ₂ and MoSe ₂ on Au(111). <i>Journal of Physical Chemistry C</i> , 2021, 125, 26645-26651.	3.1	11
103	First-principles computational exploration of ferromagnetism in monolayer GaS via substitutional doping. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 314003.	1.8	10
104	Magnetic exchange interactions in bilayer $\text{Cr}_{3.2}\text{Mn}_{10}$ assessment of the $\text{Cr}_{3.2}\text{Mn}_{10}$. <i>Physical Review B</i> , 2021, 103, .		
105	Surface reconstructions and atomic ordering in $\text{In}_{0.8}\text{Ga}_{0.2}\text{As}(001)$ films: A density-functional theory study. <i>Physical Review B</i> , 2006, 74, .	3.2	9
106	Surface morphology of MnSi thin films grown on Si(111). <i>Surface Science</i> , 2013, 617, 106-112.	1.9	9
107	Molybdenum Disulfide Nanoflakes Grown by Chemical Vapor Deposition on Graphite: Nucleation, Orientation, and Charge Transfer. <i>Journal of Physical Chemistry C</i> , 2020, 124, 2689-2697.	3.1	9
108	Detection of adsorbed transition-metal porphyrins by spin-dependent conductance of graphene nanoribbon. <i>RSC Advances</i> , 2017, 7, 29112-29121.	3.6	8

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109	Spin and orbital magnetism in ordered $\text{Fe}_3\text{Si}_1\text{~}\text{l}^1$ binary Heusler structures: Theory versus experiment. Physical Review B, 2008, 77, .	3.2	7
110	Linking density functional and density-matrix theory: Picosecond electron relaxation at the Si(100) surface. Physical Review B, 2008, 77, .	3.2	7
111	Modeling of minibands and electronic transport in one-dimensional stacks of InAs/GaAs quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 906-910.	2.7	7
112	Theoretical prediction of improved figure-of-merit in Si/Ge quantum dot superlattices. New Journal of Physics, 2013, 15, 125010.	2.9	7
113	Interplay of hydrogen treatment and nitrogen doping in ZnO nanoparticles: a first-principles study. Nanotechnology, 2014, 25, 145204.	2.6	7
114	Reaction Dynamics of H ₂ /Si: A 5-D Model. Springer Series in Solid-state Sciences, 1996, , 3-25.	0.3	7
115	Diffusion pathways of hydrogen across the steps of a vicinal Si(001) surface. Physical Review B, 2007, 75, .	3.2	6
116	Thermodynamics and Kinetics of Quantum Dot Growth. Nanoscience and Technology, 2008, , 1-39.	1.5	6
117	Theoretical investigation of the influence of isotope mass on chemicurrents during adsorption of H on K(110). Surface Science, 2010, 604, 1452-1458.	1.9	6
118	Atomistic calculation of the thermoelectric properties of Si nanowires. Physical Review B, 2014, 90, .	3.2	6
119	Thermoelectric properties of Ge/Si heterostructures: A combined theoretical and experimental study. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 524-532.	1.8	6
120	Coupling of quantum well states and phonons in thin multilayer Pb films on Si(111). Physical Review B, 2017, 96, .	3.2	6
121	Adsorption and dissociation of iron phthalocyanine on H/Si(111): Impact of van der Waals interactions and perspectives for subsurface doping. Physical Review B, 2019, 99, .	3.2	6
122	Isotopic effect on the vibrational lifetime of the carbon-deuterium stretch excitation on graphene. Journal of Chemical Physics, 2011, 135, 114506.	3.0	5
123	Large morphological sensitivity of the magneto-thermopower in Co/Cu multilayered systems. New Journal of Physics, 2015, 17, 033036.	2.9	5
124	Towards a standardized setup for surface energy calculations. Physical Review B, 2017, 95, . $\text{Ab}_{\text{mml:mi}} \text{initio}_{\text{mml:mi}} \text{simulation}_{\text{mml:math}}$	3.2	5
125	Transport properties of zirconium and ferromagnetic cobalt contacts on the two-dimensional semiconductor $\text{Cr}_{\text{mml:mi}} \text{3}_{\text{mml:mn}} \text{Cr}_{\text{mml:msub}}$	3.2	5
126	Electronic correlation, magnetic structure, and magnetotransport in few-layer $\text{Cr}_{\text{mml:mi}} \text{3}_{\text{mml:mn}} \text{Cr}_{\text{mml:msub}}$. Physical Review Materials, 2020, 4, .	2.4	5

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127	Theory of shape evolution of InAs quantum dots on In0.5Ga0.5As/InP(001) substrate. New Journal of Physics, 2009, 11, 073018.	2.9	4
128	Atomic-scale detection of magnetic impurity interactions in bulk semiconductors. Physical Review B, 2015, 92, .	3.2	4
129	Unoccupied electronic structure and momentum-dependent scattering dynamics in Pb/Si(557) nanowire arrays. Physical Review B, 2015, 92, . Surface vibrations in the $\text{Si}(111)-\text{In}$ surface. $\text{Si}(111)-\text{In}$ surface. Nanoscale, 2019, 11, 21790-21798.	3.2	4
130	H_2 adsorption on the $\text{Si}(111)-\text{In}$ surface. $\text{Si}(111)-\text{In}$ surface. Nanoscale, 2019, 11, 21790-21798.	3.2	4
131	Relaxation of electrons in quantum-confined states in Pb/Si(111) thin films from master equation with first-principles-derived rates. New Journal of Physics, 2019, 21, 123023.	2.9	4
132	Surface structural phase transition induced by the formation of metal-organic networks on the $\text{Si}(111)-\text{In}$ surface. Nanoscale, 2019, 11, 21790-21798.	5.6	4
133	A fresh look at the structure of aromatic thiols on Au surfaces from theory and experiment. Journal of Chemical Physics, 2021, 155, 044707.	3.0	4
134	STABILITY OF ADSORBED HYDROGEN ON Si(100) UNDER CHANGES OF THE SURFACE POTENTIAL. Surface Review and Letters, 1996, 03, 1227-1233.	1.1	3
135	Thermoelectric Properties of Half-Heusler Heterostructures from Ab Initio Calculations. Journal of Electronic Materials, 2016, 45, 1762-1766.	2.2	3
136	Boltzmann relaxation dynamics of strongly interacting spinless fermions on a lattice. Physical Review B, 2019, 100, .	3.2	3
137	Models for Hydrogen Extraction from the Passivated Si(100) Surface Induced by the Scanning Tunneling Microscope. Physica Status Solidi A, 1997, 159, 91-104.	1.7	2
138	Structure of GaAs(001)-c(4 \bar{A} -4): Comparison of X-ray diffraction and first-principles calculation. Surface Science, 2006, 600, 4099-4102.	1.9	2
139	Comment on "Angular distributions of H-induced HD and D2 desorptions from the Si(100) surfaces". J. Chem. Phys. 124, 054715 (2006)]. Journal of Chemical Physics, 2008, 128, 017101.	3.0	2
140	Ferromagnetic Heusler Alloy Thin Films: Electronic Properties and Magnetic Moment Formation. Springer Tracts in Modern Physics, 2013, , 119-162.	0.1	2
141	Single-atom vacancy in monolayer phosphorene: A comprehensive study of stability and magnetism under applied strain. Journal of Magnetism and Magnetic Materials, 2018, 465, 546-553.	2.3	2
142	Phonon-induced electronic relaxation in a strongly correlated system: The Sn/Si(111) adlayer revisited. Physical Review B, 2019, 100, .	2.0	2
143	Gold-induced surface reconstruction on GaAs(111)-B surface. Molecular Simulation, 2009, 35, 258-261.	2.0	1
144	Interface defects and impurities at the growth zone of Au-catalyzed GaAs nanowire from first principles. Physica Status Solidi - Rapid Research Letters, 2013, 7, 882-885.	2.4	1

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145	First-Principles Study of InAs/GaAs(001) Heteroepitaxy. , 2005, , 27-42.	1	
146	Ab Initio Thermodynamics and Statistical Mechanics of Diffusion, Growth, and Self-Assembly of Quantum Dots. , 2002, , 355-369.	1	
147	Atomistic Simulations of Processes at Surfaces. Springer Series in Materials Science, 2004, , 39-72.	0.6	0
148	Atomic processes in molecular beam epitaxy on strained InAs(137): A density-functional theory study. Physical Review B, 2009, 80, .	3.2	0
149	Optimized growth procedure for self-organized InAs quantum dots. Springer Proceedings in Physics, 2001, , 387-388.	0.2	0
150	Toward Predictive Growth Simulations: MBE on GaAs(001). Springer Proceedings in Physics, 2001, , 339-340.	0.2	0