

# Patricia A Thiel

## List of Publications by Citations

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305  
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324  
ext. papers

11,877  
ext. citations

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6.01  
L-index

#	Paper	IF	Citations
305	The interaction of water with solid surfaces: Fundamental aspects. <i>Surface Science Reports</i> , <b>1987</b> , 7, 211-325	32.5	2108
304	Morphological evolution during epitaxial thin film growth: Formation of 2D islands and 3D mounds. <i>Surface Science Reports</i> , <b>2006</b> , 61, 1-128	12.9	582
303	Diffusion of large two-dimensional Ag clusters on Ag(100). <i>Physical Review Letters</i> , <b>1994</b> , 73, 2591-2594	7.4	290
302	Low-temperature epitaxial growth of thin metal films. <i>Physical Review B</i> , <b>1990</b> , 41, 5410-5413	3.3	223
301	The chemisorption of Co on Rh(111). <i>Surface Science</i> , <b>1979</b> , 84, 54-64	1.8	192
300	Coarsening mechanisms in a metal film: From cluster diffusion to vacancy ripening. <i>Physical Review Letters</i> , <b>1996</b> , 76, 652-655	7.4	177
299	The interaction of oxygen with the Rh(111) surface a. <i>Surface Science</i> , <b>1979</b> , 82, 22-44	1.8	176
298	High frictional anisotropy of periodic and aperiodic directions on a quasicrystal surface. <i>Science</i> , <b>2005</b> , 309, 1354-6	33.3	171
297	Monolayer and multilayer adsorption of water on Ru(001). <i>Journal of Chemical Physics</i> , <b>1981</b> , 75, 5556-5573	7.4	168
296	Structural Analysis of the Fivefold Symmetric Surface of the Al <sub>70</sub> Pd <sub>21</sub> Mn <sub>9</sub> Quasicrystal by Low Energy Electron Diffraction. <i>Physical Review Letters</i> , <b>1997</b> , 78, 467-470	7.4	145
295	Electronic control of friction in silicon pn junctions. <i>Science</i> , <b>2006</b> , 313, 186	33.3	141
294	The chemisorption of hydrogen on Rh(111). <i>Surface Science</i> , <b>1979</b> , 84, 427-439	1.8	134
293	Fivefold surface of quasicrystalline AlPdMn: Structure determination using low-energy-electron diffraction. <i>Physical Review B</i> , <b>1998</b> , 57, 7628-7641	3.3	126
292	The structure of CO adsorbed on Pd(100): A leed and hreels analysis. <i>Surface Science</i> , <b>1979</b> , 88, L59-L66	1.8	111
291	Oxygen on Pd(100): Order, reconstruction, and desorption. <i>Journal of Chemical Physics</i> , <b>1988</b> , 88, 2071-2082	9.2	107
290	Photoelectron spectra of an Al <sub>70</sub> Pd <sub>21</sub> Mn <sub>9</sub> quasicrystal and the cubic alloy Al <sub>60</sub> Pd <sub>25</sub> Mn <sub>15</sub> . <i>Physical Review B</i> , <b>1996</b> , 54, 6301-6306	3.3	104
289	Molecule-Substrate Vibration of CO on Ni(100) Studied by Infrared-Emission Spectroscopy. <i>Physical Review Letters</i> , <b>1984</b> , 52, 648-651	7.4	100

288	Growth morphology and properties of metals on graphene. <i>Progress in Surface Science</i> , <b>2015</b> , 90, 397-443.	3.6	97
287	The temperature and coverage dependences of adsorbed formic acid and its conversion to formate on platinum(111). <i>Journal of the American Chemical Society</i> , <b>1992</b> , 114, 1231-1237	16.4	95
286	The catalytic reaction between adsorbed oxygen and hydrogen on Rh(111). <i>Surface Science</i> , <b>1979</b> , 82, 45-68	1.8	95
285	Crystalline surface structures induced by ion sputtering of Al-rich icosahedral quasicrystals. <i>Physical Review B</i> , <b>1998</b> , 58, 9961-9971	3.3	89
284	Oxygen adsorption on a single-grain, quasicrystal surface. <i>Surface Science</i> , <b>1995</b> , 337, 135-146	1.8	88
283	Coarsening of Two-Dimensional Nanoclusters on Metal Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 5047-5067	3.8	86
282	The vibrational spectra of chemisorbed molecular clusters: H <sub>2</sub> O on Ru(001). <i>Journal of Chemical Physics</i> , <b>1984</b> , 80, 5326-5331	3.9	81
281	Novel metal-film configuration: Rh on Ag(100). <i>Physical Review B</i> , <b>1989</b> , 40, 11477-11487	3.3	79
280	Adatom capture by arrays of two-dimensional Ag islands on Ag(100). <i>Physical Review B</i> , <b>1999</b> , 59, 3125-3134	3.4	76
279	Structure and mechanism of alkali-metal-induced reconstruction of fcc (110) surfaces. <i>Physical Review B</i> , <b>1987</b> , 36, 9267-9270	3.3	75
278	Formation of a metastable ordered surface phase due to competitive diffusion and adsorption kinetics: Oxygen on Pd(100). <i>Physical Review Letters</i> , <b>1987</b> , 59, 296-299	7.4	75
277	Pseudomorphic starfish: nucleation of extrinsic metal atoms on a quasicrystalline substrate. <i>Surface Science</i> , <b>2003</b> , 526, 115-120	1.8	74
276	New phenomena in epitaxial growth: solid films on quasicrystalline substrates. <i>Journal Physics D: Applied Physics</i> , <b>2005</b> , 38, R83-R106	3	70
275	Mechanism of an adsorbate-induced surface phase transformation: CO on Pt(100). <i>Surface Science</i> , <b>1982</b> , 121, L553-L560	1.8	69
274	Growth of Rh, Pd, and Pt films on Cu(100). <i>Physical Review B</i> , <b>1990</b> , 41, 3353-3359	3.3	67
273	Structural steps to oxidation of Ni(100). <i>Journal of Chemical Physics</i> , <b>1990</b> , 92, 2025-2035	3.9	67
272	Self-assembly of metal nanostructures on binary alloy surfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 989-94	11.5	66
271	Quantum size effects in metal thin films grown on quasicrystalline substrates. <i>Physical Review Letters</i> , <b>2005</b> , 95, 155504	7.4	66

270	Evolution of Far-From-Equilibrium Nanostructures Formed by Cluster-Step and Cluster-Cluster Coalescence in Metal Films. <i>Physical Review Letters</i> , <b>1998</b> , 81, 2950-2953	7.4	64
269	Electron-stimulated desorption and thermal desorption spectrometry of H <sub>2</sub> O on nickel (111). <i>Surface Science</i> , <b>1985</b> , 157, 99-118	1.8	64
268	Development and ordering of mounds during metal(100) homoepitaxy. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	61
267	Fine structure on flat surfaces of quasicrystalline Al-Pd-Mn. <i>Physical Review B</i> , <b>1999</b> , 60, 14688-14694	3.3	61
266	A determination of adsite symmetry on surfaces via electron energy loss spectroscopy: Coadsorption of CO and NO on Ru(001). <i>Journal of Chemical Physics</i> , <b>1979</b> , 71, 1643-1646	3.9	61
265	Using temperature to tune film roughness: nonintuitive behavior in a simple system. <i>Physical Review Letters</i> , <b>2000</b> , 85, 800-3	7.4	58
264	The adsorption of cyclic hydrocarbons on Ru(001). <i>Surface Science</i> , <b>1983</b> , 130, 173-190	1.8	57
263	The formation and decomposition of KOH on Ru(001). <i>Chemical Physics Letters</i> , <b>1984</b> , 108, 25-31	2.5	57
262	Smoluchowski ripening of Ag islands on Ag(100). <i>Journal of Chemical Physics</i> , <b>1999</b> , 111, 5157-5166	3.9	56
261	Friction and Adhesion Properties of Clean and Oxidized Al-Ni-Co Decagonal Quasicrystals: A UHV Atomic Force Microscopy/Scanning Tunneling Microscopy Study. <i>Tribology Letters</i> , <b>2004</b> , 17, 629-636	2.8	55
260	Nucleation and growth of Ag films on a quasicrystalline AlPdMn surface. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	55
259	Isotope effect in water desorption from Ru(001). <i>Surface Science</i> , <b>1987</b> , 186, 219-231	1.8	55
258	Segregation of co-adsorbed species: Hydrogen and carbon monoxide on the (111) surface of rhodium. <i>Journal of Chemical Physics</i> , <b>1980</b> , 72, 3496-3505	3.9	55
257	Morphology of multilayer Ag/Ag(100) films versus deposition temperature: STM analysis and atomistic lattice-gas modeling. <i>Physical Review B</i> , <b>2001</b> , 63,	3.3	54
256	Temperature dependence of island growth shapes during submonolayer deposition of Ag on Ag(111). <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	50
255	Transition metals on the (0 0 0 1) surface of graphite: Fundamental aspects of adsorption, diffusion, and morphology. <i>Progress in Surface Science</i> , <b>2014</b> , 89, 219-238	6.6	49
254	Growth of Ag thin films on complex surfaces of quasicrystals and approximant phases. <i>Surface Science</i> , <b>2003</b> , 537, 5-26	1.8	49
253	Quasicrystal surfaces. <i>Annual Review of Physical Chemistry</i> , <b>2008</b> , 59, 129-52	15.7	47

252	Unusually facile dissociation of benzene by ruthenium metal. <i>Journal of the American Chemical Society</i> , <b>1986</b> , 108, 7560-7	16.4	47
251	Preparation of well-defined samples of AlPdMn quasicrystals for surface studies. <i>Applied Surface Science</i> , <b>1996</b> , 103, 485-493	6.7	46
250	Sensing dipole fields at atomic steps with combined scanning tunneling and force microscopy. <i>Physical Review Letters</i> , <b>2005</b> , 95, 136802	7.4	45
249	Surface oxidation of AlCuBe alloys characterized by X-ray photoelectron spectroscopy. <i>Applied Surface Science</i> , <b>2001</b> , 173, 327-338	6.7	45
248	Structural aspects of the fivefold quasicrystalline AlCuBe surface from STM and dynamical LEED studies. <i>Surface Science</i> , <b>2001</b> , 495, 19-34	1.8	45
247	Evolution of two-dimensional wormlike nanoclusters on metal surfaces. <i>Physical Review Letters</i> , <b>2001</b> , 86, 3088-91	7.4	44
246	High-resolution LEED profile analysis and diffusion barrier estimation for submonolayer homoepitaxy of Ag/Ag(100). <i>Physical Review B</i> , <b>1998</b> , 57, 12544-12549	3.3	44
245	Friction between single-grain Al <sub>70</sub> Pd <sub>21</sub> Mn <sub>9</sub> quasicrystal surfaces. <i>Surface Science</i> , <b>1999</b> , 423, 243-255	1.8	44
244	The C=O stretching vibration of CO on Ni(100) by infrared emission spectroscopy. <i>Surface Science</i> , <b>1984</b> , 140, 393-399	1.8	44
243	Oxygen-stabilized reconstructions of Pd(100): Phase transitions during oxygen desorption. <i>Surface Science</i> , <b>1988</b> , 205, 117-142	1.8	43
242	The adsorption of nitric oxide on Ru(001). <i>Chemical Physics Letters</i> , <b>1979</b> , 67, 403-407	2.5	43
241	Structure and Stability of the Twofold Surface of Icosahedral Al-Pd-Mn by Low-Energy Electron Diffraction and X-Ray Photoemission Spectroscopy. <i>Physical Review Letters</i> , <b>1997</b> , 78, 1050-1053	7.4	42
240	Surface energies, adhesion energies, and exfoliation energies relevant to copper-graphene and copper-graphite systems. <i>Surface Science</i> , <b>2019</b> , 685, 48-58	1.8	41
239	Adsorbate-enhanced transport of metals on metal surfaces: Oxygen and sulfur on coinage metals. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2010</b> , 28, 1285-1298	2.9	41
238	Coadsorption of Oxygen and Water on Ru (001): Vibrational and Structural Properties. <i>Physical Review Letters</i> , <b>1982</b> , 49, 501-504	7.4	41
237	Surface oxidation of Al-Cu-Fe alloys: A comparison of quasicrystalline and crystalline phases. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , <b>1999</b> , 79, 91-110		40
236	Tensor LEED analysis of the Pd(100)( $\sqrt{3} \times \sqrt{3}$ )R27° surface structure. <i>Surface Science</i> , <b>1994</b> , 318, 129-138	1.8	40
235	The geometrical and vibrational properties of the Rh(111) surface. <i>Surface Science</i> , <b>1978</b> , 76, 296-310	1.8	40

234	Influence of carrier density on the friction properties of silicon pn junctions. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	39
233	Cluster diffusivity: Structure, correlation, and scaling. <i>Journal of Chemical Physics</i> , <b>1990</b> , 93, 9018-9025	3.9	39
232	The reaction of formic acid with clean and water-covered Pt(111). <i>Surface Science</i> , <b>1990</b> , 235, 53-59	1.8	39
231	High island densities and long range repulsive interactions: Fe on epitaxial graphene. <i>Physical Review Letters</i> , <b>2012</b> , 109, 026103	7.4	38
230	Tribological properties of quasicrystals: Effect of aperiodic versus periodic surface order. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	38
229	Additive-enhanced coarsening and smoothening of metal films: Complex mass-flow dynamics underlying nanostructure evolution. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	38
228	Initial stages of metal encapsulation during epitaxial growth studied by STM: Rh/Ag(100). <i>Physical Review B</i> , <b>1996</b> , 53, 13747-13752	3.3	38
227	Structural phenomena related to associative and dissociative adsorption of water on Ni(110). <i>Journal of Chemical Physics</i> , <b>1992</b> , 97, 3760-3774	3.9	38
226	Effect of water on the surface oxidation of an Al-Pd-Mn quasicrystal. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , <b>1997</b> , 75, 271-281		37
225	Electronic structure of quasicrystalline surfaces: Effects of surface preparation and bulk structure. <i>Physical Review B</i> , <b>2000</b> , 62, 14049-14060	3.3	37
224	Intermetallic NaAu <sub>2</sub> as a heterogeneous catalyst for low-temperature CO oxidation. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 9592-5	16.4	36
223	Comparison between experimental surface data and bulk structure models for quasicrystalline AlPdMn: Average atomic densities and chemical compositions. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	36
222	STM study of the atomic structure of the icosahedral Al-Cu-Fe fivefold surface. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	36
221	Nucleation, Growth, and Relaxation of Thin Films: Metal(100) Homoepitaxial Systems. <i>Journal of Physical Chemistry B</i> , <b>2000</b> , 104, 1663-1676	3.4	36
220	Oxygenated fluorocarbons adsorbed at metal surfaces: chemisorption bond strengths and decomposition. <i>Journal of the American Chemical Society</i> , <b>1987</b> , 109, 5621-5627	16.4	36
219	Comments on quasicrystals and their potential use as catalysts. <i>Journal of Molecular Catalysis A</i> , <b>1998</b> , 131, 301-306		35
218	Quasicrystals: A Short Review from a Surface Science Perspective. <i>Langmuir</i> , <b>1998</b> , 14, 1392-1397	4	35
217	Structural determination of a NiO(111) film on Ni(100) by dynamical low-energy electron-diffraction analysis. <i>Journal of Chemical Physics</i> , <b>1994</b> , 100, 659-663	3.9	35

216	Temperature dependence of metal film growth via low-energy electron diffraction intensity oscillations: Pt/Pd(100). <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1989</b> , 7, 2162-2166	2.9	35
215	Elastic and inelastic deformations of ethylene-passivated tenfold decagonal AlNiCo quasicrystal surfaces. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	33
214	Reshaping, Intermixing, and Coarsening for Metallic Nanocrystals: Nonequilibrium Statistical Mechanical and Coarse-Grained Modeling. <i>Chemical Reviews</i> , <b>2019</b> , 119, 6670-6768	68.1	32
213	A structural refinement with LEED for the Pd(100)( $\sqrt{3}\times\sqrt{3}$ )R27 $^\circ$ -O surface. <i>Surface Science</i> , <b>2001</b> , 494, L799-L804	1.8	32
212	Self-organization of S adatoms on Au(111): $\sqrt{3}\times\sqrt{3}$ rows at low coverage. <i>Journal of Chemical Physics</i> , <b>2015</b> , 143, 014704	3.9	31
211	Surface structures of approximant phases in the Al-Pd-Mn system. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	31
210	Growth morphology and thermal stability of metal islands on graphene. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	29
209	New approximants in the AlCrBe system and their oxidation resistance. <i>Journal of Alloys and Compounds</i> , <b>2002</b> , 342, 24-29	5.7	29
208	The bonding of fluorinated and hydrogenated diethers to Ru(001). <i>Surface Science</i> , <b>1989</b> , 224, 425-450	1.8	29
207	The oxidation of CO on pt(100): Mechanism and structure. <i>Surface Science</i> , <b>1984</b> , 147, 143-161	1.8	29
206	Atomic scale friction and adhesion properties of quasicrystal surfaces. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 314012	1.8	28
205	Nucleation and growth of Ag islands on fivefold Al-Pd-Mn quasicrystal surfaces: Dependence of island density on temperature and flux. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	28
204	Use of LEED intensity oscillations in monitoring thin film growth. <i>Langmuir</i> , <b>1988</b> , 4, 1096-1100	4	28
203	The adsorption of cyclic hydrocarbons on Ru(001). <i>Surface Science</i> , <b>1983</b> , 130, 163-172	1.8	28
202	Kinetics of facile bilayer island formation at low temperature: Ag/NiAl(110). <i>Physical Review Letters</i> , <b>2008</b> , 100, 116105	7.4	27
201	Tribological properties of a B2-type Al-Pd-Mn quasicrystal approximant. <i>Journal of Materials Research</i> , <b>2003</b> , 18, 1447-1456	2.5	27
200	Terrace selection during equilibration at an icosahedral quasicrystal surface. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	27
199	Testing realistic environments for metal film growth and aging: chemical insights into the effect of oxygen on Ag/Ag(100). <i>Surface Science</i> , <b>2001</b> , 472, L151-L156	1.8	27

198	Formation and Equilibration of Submonolayer Island Distributions in Ag/Ag(100) Homoepitaxy. <i>Langmuir</i> , <b>1998</b> , 14, 1487-1492	4	27
197	Cu <sub>2</sub> S <sub>3</sub> complex on Cu(111) as a candidate for mass transport enhancement. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	26
196	Scanning tunneling microscopy and density functional theory study of initial bilayer growth of Ag films on NiAl(110). <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	26
195	Evolution of far-from-equilibrium nanostructures on Ag(100) surfaces: Protrusions and indentations at extended step edges. <i>Physical Review B</i> , <b>2000</b> , 61, 4910-4925	3.3	26
194	Ordered structures and structural transformations on a K-covered Au(110) surface. <i>Surface Science</i> , <b>1991</b> , 253, 270-282	1.8	26
193	Growth mode and CO adsorption properties of Au films on Pd(110). <i>Surface Science</i> , <b>1991</b> , 248, 287-294	1.8	26
192	Accelerated coarsening of Ag adatom islands on Ag(111) due to trace amounts of S: mass-transport mediated by Ag-S complexes. <i>Journal of Chemical Physics</i> , <b>2009</b> , 130, 094701	3.9	25
191	Friction anisotropy: A unique and intrinsic property of decagonal quasicrystals. <i>Journal of Materials Research</i> , <b>2008</b> , 23, 1488-1493	2.5	25
190	Surface self-diffusion barrier of Pd(100) from low-energy electron diffraction. <i>Surface Science</i> , <b>1993</b> , 298, 378-383	1.8	25
189	Exploration of complex multilayer film growth morphologies: STM analysis and predictive atomistic modeling for Ag on Ag(111). <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	24
188	Homoepitaxial growth on Pd(100). <i>Surface Science</i> , <b>1993</b> , 289, 75-84	1.8	24
187	The co-adsorption of oxygen and hydrogen on Rh(111). <i>Surface Science</i> , <b>1979</b> , 90, 121-132	1.8	24
186	Adsite symmetry and vibrational structure of NO and H <sub>2</sub> co-adsorbed on the Ru(001) surface. <i>Journal of Chemical Physics</i> , <b>1980</b> , 73, 4081-4085	3.9	24
185	Structures and magnetic properties of Fe clusters on graphene. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	23
184	Novel Self-Organized Structure of a Ag <sub>3</sub> Complex on the Ag(111) Surface below Room Temperature. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 4281-4290	3.8	23
183	Atomic scale coexistence of periodic and quasiperiodic order in a 2-fold Al-Ni-Co decagonal quasicrystal surface. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	23
182	Approaching the low-temperature limit in nucleation and two-dimensional growth of fcc (100) metal films Ag/Ag(100). <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	23
181	Effect of sputtering gas on the surface composition of an AlPdMn quasicrystal. <i>Applied Surface Science</i> , <b>2000</b> , 157, 23-28	6.7	23



180	Communication: Structure, formation, and equilibration of ensembles of Ag-S complexes on an Ag surface. <i>Journal of Chemical Physics</i> , <b>2013</b> , 138, 071101	3.9	22
179	Fe-Fe adatom interaction and growth morphology on graphene. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	22
178	Influence of strain in Ag on Al(111) and Al on Ag(100) thin film growth. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	22
177	Step structure on the fivefold AlPdMn quasicrystal surface, and on related surfaces. <i>Surface Science</i> , <b>2005</b> , 583, 4-15	1.8	22
176	Thermally-Induced and Electron-Induced Chemistry of CF <sub>3</sub> I on Ni(100). <i>Journal of the American Chemical Society</i> , <b>1995</b> , 117, 438-445	16.4	22
175	Formation of Multilayer Cu Islands Embedded beneath the Surface of Graphite: Characterization and Fundamental Insights. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 4454-4469	3.8	21
174	Island formation during Al deposition on 5-fold AlCuBe quasicrystalline surfaces: Kinetic Monte Carlo simulation of a disordered-bond-network lattice-gas model. <i>Surface Science</i> , <b>2006</b> , 600, 2220-2230	1.8	21
173	The effect of common gases on nucleation of metal islands: The role of oxygen in Ag(100) homoepitaxy. <i>Journal of Chemical Physics</i> , <b>2003</b> , 118, 6467-6472	3.9	21
172	Quasicrystals. Electrons in a strange sea. <i>Nature</i> , <b>2000</b> , 406, 570-1, 573	50.4	21
171	A versatile data acquisition system for low-energy electron diffraction. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1986</b> , 4, 1367-1371	2.9	21
170	Lattice expansion in islands stabilized by electron confinement: Ag on Si(111). <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	20
169	Ab Initio Thermodynamics and Kinetics for Coalescence of Two-Dimensional Nanoislands and Nanopits on Metal (100) Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 21617-21630	3.8	19
168	Surface structure of Al-Pd-Mn quasicrystals: Existence of supersaturated bulk vacancy concentrations. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	19
167	Surface oxidation of a quasicrystalline AlCuBe alloy: No effect of surface orientation and grain boundaries on the final state. <i>Journal of Materials Research</i> , <b>1999</b> , 14, 3185-3188	2.5	19
166	Displacement of cyclohexane by water on a ruthenium surface. <i>Journal of Catalysis</i> , <b>1986</b> , 99, 88-94	7.3	19
165	Defect-mediated, thermally-activated encapsulation of metals at the surface of graphite. <i>Carbon</i> , <b>2018</b> , 127, 305-311	10.4	19
164	Reconstruction of steps on the Cu(111) surface induced by sulfur. <i>Journal of Chemical Physics</i> , <b>2015</b> , 142, 194711	3.9	18
163	Formation and coarsening of Ag(110) bilayer islands on NiAl(110): STM analysis and atomistic lattice-gas modeling. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	18

162	The effect of chalcogens (O, S) on coarsening of nanoislands on metal surfaces. <i>Surface Science</i> , <b>2009</b> , 603, 1486-1491	1.8	18
161	Adhesion properties of decagonal quasicrystals in ultrahigh vacuum. <i>Philosophical Magazine</i> , <b>2006</b> , 86, 945-950	1.6	18
160	Summary Abstract: Adsorption of cyclohexane on Ru(001): A high resolution electron energy loss and UV-photoemission study. <i>Journal of Vacuum Science and Technology</i> , <b>1981</b> , 18, 651-652		18
159	Identification of Au-S complexes on Au(100). <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 4891-901	3.6	17
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