

Patricia A Thiel

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

305
papers

11,409
citations

50
h-index

96
g-index

324
ext. papers

11,877
ext. citations

4.6
avg, IF

6.01
L-index

#	Paper	IF	Citations
305	Mechanism of Metal Intercalation under Graphene through Small Vacancy Defects. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 6954-6962	3.8	4
304	Encapsulation of metal nanoparticles at the surface of a prototypical layered material. <i>Nanoscale</i> , 2021 , 13, 1485-1506	7.7	4
303	Enhanced Nanostructure Dynamics on Au(111) with Adsorbed Sulfur due to AuS Complex Formation. <i>ChemPhysChem</i> , 2021 , 22, 343-343	3.2	
302	Enhanced Nanostructure Dynamics on Au(111) with Adsorbed Sulfur due to Au-S Complex Formation. <i>ChemPhysChem</i> , 2021 , 22, 349-358	3.2	2
301	Structure of chalcogen overlayers on Au(111): Density functional theory and lattice-gas modeling. <i>Journal of Chemical Physics</i> , 2020 , 152, 224706	3.9	2
300	Fundamentals of Au(111) Surface Dynamics: Coarsening of Two-Dimensional Au Islands. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 7492-7499	3.8	3
299	Shapes of Fe nanocrystals encapsulated at the graphite surface. <i>New Journal of Physics</i> , 2020 , 22, 023016	6.9	9
298	Growth and stability of Pb intercalated phases under graphene on SiC. <i>Physical Review Materials</i> , 2020 , 4,	3.2	5
297	Adsorption, intercalation, diffusion, and adhesion of Cu at the 2H-MoS ₂ (0001) surface from first-principles calculations. <i>Physical Review Research</i> , 2020 , 2,	3.9	12
296	Search for encapsulation of platinum, silver, and gold at the surface of graphite. <i>Physical Review Research</i> , 2020 , 2,	3.9	8
295	Non-equilibrium growth of metal clusters on a layered material: Cu on MoS ₂ . <i>New Journal of Physics</i> , 2020 , 22, 053033	2.9	5
294	High Layer Uniformity of Two-Dimensional Materials Demonstrated Surprisingly from Broad Features in Surface Electron Diffraction. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 8937-8943	6.4	3
293	Diffraction paradox: An unusually broad diffraction background marks high quality graphene. <i>Physical Review B</i> , 2019 , 100,	3.3	3
292	Surface energies, adhesion energies, and exfoliation energies relevant to copper-graphene and copper-graphite systems. <i>Surface Science</i> , 2019 , 685, 48-58	1.8	41
291	Reshaping, Intermixing, and Coarsening for Metallic Nanocrystals: Nonequilibrium Statistical Mechanical and Coarse-Grained Modeling. <i>Chemical Reviews</i> , 2019 , 119, 6670-6768	68.1	32
290	Characteristics of sulfur atoms adsorbed on Ag(100), Ag(110), and Ag(111) as probed with scanning tunneling microscopy: experiment and theory. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 10540-10551	3.6	7
289	Coinage Metal-Sulfur Complexes: Stability on Metal(111) Surfaces and in the Gas Phase. <i>Journal of Physical Chemistry C</i> , 2019 ,	3.8	4

288	Squeezed nanocrystals: equilibrium configuration of metal clusters embedded beneath the surface of a layered material. <i>Nanoscale</i> , 2019 , 11, 6445-6452	7.7	11
287	Bulk single crystal growth and sample surface preparation of catalytic NaAu ₂ . <i>Journal of Alloys and Compounds</i> , 2019 , 789, 362-366	5.7	1
286	Energetics of Cu adsorption and intercalation at graphite step edges. <i>Physical Review B</i> , 2019 , 99,	3.3	10
285	Aperiodic order coming of age: from inorganic materials to dynamic protein superstructures. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019 , 75, 212-213	1.7	1
284	Identification of an AgS Complex on Ag(110). <i>Scientific Reports</i> , 2019 , 9, 19842	4.9	2
283	Fabricating Fe nanocrystals via encapsulation at the graphite surface. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019 , 37, 061403	2.9	10
282	Sulfur adsorption on coinage metal(100) surfaces: propensity for metal-sulfur complex formation relative to (111) surfaces. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 26483-26491	3.6	2
281	Modeling of Diffusivity for 2D Vacancy Nanopits and Comparison with 2D Adatom Nanoislands on Metal(100) Surfaces Including Analysis for Ag(100). <i>Journal of Physical Chemistry C</i> , 2018 , 122, 11334-11344	3.8	2
280	Stability of M ₃ S ₃ complexes on fcc M(111) surfaces: M = Au, Ag, Cu, and Ni. <i>Surface Science</i> , 2018 , 676, 2-8	1.8	6
279	Formation of Multilayer Cu Islands Embedded beneath the Surface of Graphite: Characterization and Fundamental Insights. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 4454-4469	3.8	21
278	Oxygen and sulfur adsorption on vicinal surfaces of copper and silver: Preferred adsorption sites. <i>Journal of Chemical Physics</i> , 2018 , 148, 124706	3.9	8
277	Sulfur Atoms Adsorbed on Cu(100) at Low Coverage: Characterization and Stability against Complexation. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 963-971	3.4	12
276	Defect-mediated, thermally-activated encapsulation of metals at the surface of graphite. <i>Carbon</i> , 2018 , 127, 305-311	10.4	19
275	Reverse-engineering of graphene on metal surfaces: a case study of embedded ruthenium. <i>Nanotechnology</i> , 2018 , 29, 505601	3.4	17
274	Stabilization of X ₂ Au ₂ Complexes on the Au(111) Surface: A Theoretical Investigation and Comparison of X = S, Cl, CH ₃ S, and SiH ₃ S. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 3870-3879	3.8	9
273	Thermally activated diffusion of copper into amorphous carbon. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2017 , 35, 061401	2.9	4
272	Manipulation of Dirac cones in intercalated epitaxial graphene. <i>Carbon</i> , 2017 , 123, 93-98	10.4	17
271	Formation of dysprosium carbide on the graphite (0001) surface. <i>Physical Review Materials</i> , 2017 , 1,	3.2	3

270	Nucleation and growth kinetics for intercalated islands during deposition on layered materials with isolated pointlike surface defects. <i>Physical Review Materials</i> , 2017 , 1,	3.2	13
269	Dy uniform film morphologies on graphene studied with SPA-LEED and STM. <i>Carbon</i> , 2016 , 108, 283-290	10.4	8
268	Atomistic simulation of frictional anisotropy on quasicrystal approximant surfaces. <i>Physical Review B</i> , 2016 , 93,	3.3	5
267	Ab Initio Thermodynamics and Kinetics for Coalescence of Two-Dimensional Nanoislands and Nanopits on Metal (100) Surfaces. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 21617-21630	3.8	19
266	Interplay between surface and surface resonance states on height selective stability of fcc Dy(111) film at nanoscale. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 31238-31243	3.6	1
265	Interaction of oxygen with the (111) surface of NaAu ₂ . <i>Surface Science</i> , 2016 , 650, 167-176	1.8	2
264	Formation of Two-Dimensional Copper Selenide on Cu(111) at Very Low Selenium Coverage. <i>ChemPhysChem</i> , 2016 , 17, 2137-45	3.2	5
263	Identification of Au-S complexes on Au(100). <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 4891-901	3.6	17
262	Comparison of S-adsorption on (111) and (100) facets of Cu nanoclusters. <i>Journal of Chemical Physics</i> , 2016 , 145, 164312	3.9	5
261	Adsorption of dysprosium on the graphite (0001) surface: Nucleation and growth at 300 K. <i>Journal of Chemical Physics</i> , 2016 , 145, 211902	3.9	8
260	Metal intercalation-induced selective adatom mass transport on graphene. <i>Nano Research</i> , 2016 , 9, 1434-1441	10.4	3
259	Growth morphology and properties of metals on graphene. <i>Progress in Surface Science</i> , 2015 , 90, 397-443	3.6	97
258	Reconstruction of steps on the Cu(111) surface induced by sulfur. <i>Journal of Chemical Physics</i> , 2015 , 142, 194711	3.9	18
257	Preface: special topic on supramolecular self-assembly at surfaces. <i>Journal of Chemical Physics</i> , 2015 , 142, 101501	3.9	
256	Cu ₂ S ₃ complex on Cu(111) as a candidate for mass transport enhancement. <i>Physical Review B</i> , 2015 , 91,	3.3	26
255	Long-Range Displacive Reconstruction of Au(110) Triggered by Low Coverage of Sulfur. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 21000-21010	3.8	14
254	The (111) surface of NaAu ₂ : structure, composition, and stability. <i>Inorganic Chemistry</i> , 2015 , 54, 1159-64	5.1	4
253	Self-organization of S adatoms on Au(111): BR30 rows at low coverage. <i>Journal of Chemical Physics</i> , 2015 , 143, 014704	3.9	31

252	Transition metals on the (0 0 0 1) surface of graphite: Fundamental aspects of adsorption, diffusion, and morphology. <i>Progress in Surface Science</i> , 2014 , 89, 219-238	6.6	49
251	Nonclassical "explosive" nucleation in Pb/Si(111) at low temperatures. <i>Physical Review Letters</i> , 2014 , 113, 236101	7.4	14
250	Search for the Structure of a Sulfur-Induced Reconstruction on Cu(111). <i>Journal of Physical Chemistry C</i> , 2014 , 118, 29218-29223	3.8	14
249	Structures and magnetic properties of Fe clusters on graphene. <i>Physical Review B</i> , 2014 , 90,	3.3	23
248	Determining whether metals nucleate homogeneously on graphite: A case study with copper. <i>Physical Review B</i> , 2014 , 90,	3.3	13
247	Communication: Structure, formation, and equilibration of ensembles of Ag-S complexes on an Ag surface. <i>Journal of Chemical Physics</i> , 2013 , 138, 071101	3.9	22
246	Growth of fcc(111) Dy multi-height islands on 6H-SiC(0001) graphene. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 225005	1.8	10
245	Intermetallic NaAu ₂ as a heterogeneous catalyst for low-temperature CO oxidation. <i>Journal of the American Chemical Society</i> , 2013 , 135, 9592-5	16.4	36
244	Structure of the clean Gd ₅ Ge ₄ (010) surface. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 485002	1.8	1
243	Atomistic and Coarse-Grained Modeling Strategies for Thin Film Nucleation and Growth on Quasicrystalline Surfaces. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1517, 1		
242	Surface Characterization of Clean Gd ₅ Ge ₄ (010). <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1517, 1		
241	Anisotropic coarsening: One-dimensional decay of Ag islands on Ag(110). <i>Physical Review B</i> , 2013 , 87,	3.3	11
240	Analytic formulations for one-dimensional decay of rectangular homoepitaxial islands during coarsening on anisotropic fcc (110) surfaces. <i>Physical Review B</i> , 2013 , 88,	3.3	4
239	Surfaces of Quasicrystals and Complex Metallic Alloys 2013 , 349-382		1
238	Chemical contrast in STM imaging of transition metal aluminides. <i>Progress in Surface Science</i> , 2012 , 87, 47-62	6.6	8
237	Effect of oxygen on the stability of Ag islands on Si(111)-7 \times 7. <i>Surface Science</i> , 2012 , 606, 1871-1878	1.8	2
236	Preferential surface oxidation of Gd in Gd ₅ Ge ₄ . <i>Applied Surface Science</i> , 2012 , 258, 2757-2760	6.7	4
235	Creating nanoscale Ag patterns on the Si(111)($\sqrt{3} \times \sqrt{3}$)R30 $^\circ$ -Ag surface via guided self-assembly. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2012 , 30, 050601	1.3	

234	Growth morphology and thermal stability of metal islands on graphene. <i>Physical Review B</i> , 2012 , 86,	3.3	29
233	High island densities and long range repulsive interactions: Fe on epitaxial graphene. <i>Physical Review Letters</i> , 2012 , 109, 026103	7.4	38
232	Fe-Fe adatom interaction and growth morphology on graphene. <i>Physical Review B</i> , 2011 , 84,	3.3	22
231	Destabilization of Ag nanoislands on Ag(100) by adsorbed sulfur. <i>Journal of Chemical Physics</i> , 2011 , 135, 154701	3.9	14
230	A Distinctive Feature of the Surface Structure of Quasicrystals: Intrinsic and Extrinsic Heterogeneity. <i>Israel Journal of Chemistry</i> , 2011 , 51, 1326-1339	3.4	7
229	How Sulfur Controls Nucleation of Ag Islands on Ag(111). <i>Topics in Catalysis</i> , 2011 , 54, 83-89	2.3	
228	Comment on Sulfur-Induced Reconstruction of Ag(111) Surfaces Studied by DFT. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 23651-23651	3.8	4
227	Adsorption of sulfur on Ag(100). <i>Surface Science</i> , 2011 , 605, 520-527	1.8	17
226	Nucleation and growth of Ag islands on the (111) phase of Ag on Si(111). <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 265002	1.8	6
225	Self-assembly of metal nanostructures on binary alloy surfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 989-94	11.5	66
224	Far-from-equilibrium film growth on alloy surfaces: Ni and Al on NiAl(110). <i>Physical Review B</i> , 2011 , 84,	3.3	12
223	Nanodomains due to phason defects at a quasicrystal surface. <i>Physical Review Letters</i> , 2011 , 106, 076101	7.4	9
222	Formation of Irregular Al Islands by Room-Temperature Deposition on NiAl(110). <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1318, 1		1
221	Weak bonding of Zn in an Al-based approximant based on surface measurements. <i>Philosophical Magazine</i> , 2011 , 91, 2879-2888	1.6	6
220	Temperature-dependent growth shapes of Ni nanoclusters on NiAl(110). <i>Journal of Chemical Physics</i> , 2011 , 135, 084706	3.9	7
219	Low-temperature adsorption of H ₂ S on Ag(111). <i>Journal of Chemical Physics</i> , 2010 , 133, 124705	3.9	15
218	Variation of growth morphology with chemical composition of terraces: Ag on a twofold surface of a decagonal Al-Cu-Co quasicrystal. <i>Physical Review B</i> , 2010 , 82,	3.3	3
217	Formation and coarsening of Ag(110) bilayer islands on NiAl(110): STM analysis and atomistic lattice-gas modeling. <i>Physical Review B</i> , 2010 , 81,	3.3	18

216	Islands and holes as measures of mass balance in growth of the (3 \times 3)R30 $^\circ$ phase of Ag on Si(111). <i>Physical Review B</i> , 2010 , 82,	3.3	4
215	Periodic step arrays on the aperiodic i-Al-Pd-Mn quasicrystal surface at high temperature. <i>Physical Review B</i> , 2010 , 81,	3.3	2
214	Nanoscale "Quantum" Islands on Metal Substrates: Microscopy Studies and Electronic Structure Analyses. <i>Materials</i> , 2010 , 3, 3965-3993	3.5	17
213	Rapid decay of vacancy islands at step edges on Ag(111): step orientation dependence. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 215002	1.8	4
212	From Initial to Late Stages of Epitaxial Thin Film Growth: STM Analysis and Atomistic or Coarse-Grained Modeling 2010 ,		3
211	Lattice expansion in islands stabilized by electron confinement: Ag on Si(111) $\sqrt{3}\sqrt{3}$. <i>Physical Review B</i> , 2010 , 81,	3.3	20
210	Chemistry. A little chemistry helps the big get bigger. <i>Science</i> , 2010 , 330, 599-600	33.3	12
209	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> , 2010 , 28, 1285-1298	2.9	41
208	FUNDAMENTALS OF SURFACE SCIENCE: ARE COMPLEX METALLIC ALLOYS [ESPECIALLY QUASICRYSTALS] DIFFERENT FROM SIMPLE ALLOYS OR ELEMENTAL METALS?. <i>Book Series on Complex Metallic Alloys</i> , 2010 , 149-182		2
207	Twofold surface of the decagonal Al-Cu-Co quasicrystal. <i>Physical Review B</i> , 2009 , 80,	3.3	13
206	Work function of a quasicrystal surface: Icosahedral AlPdMn. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2009 , 27, 1249-1250	2.9	17
205	Structure and growth of height-selected Ag islands on fivefold i-AlPdMn quasicrystalline surfaces: STM analysis and step dynamics modeling. <i>Physical Review Letters</i> , 2009 , 102, 196103	7.4	14
204	Adsorption sites on icosahedral quasicrystal surfaces: dark stars and white flowers. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 055009	1.8	11
203	Formation of complex wedding-cake morphologies during homoepitaxial film growth of Ag on Ag(111): atomistic, step-dynamics, and continuum modeling. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 084216	1.8	7
202	The effect of chalcogens (O, S) on coarsening of nanoislands on metal surfaces. <i>Surface Science</i> , 2009 , 603, 1486-1491	1.8	18
201	Stranski-Krastanov-like growth of an Ag film on a metallic glass. <i>Thin Solid Films</i> , 2009 , 517, 6486-6492	2.2	10
200	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> , 2009 , 130, 094701	3.9	25
199	Coarsening of Two-Dimensional Nanoclusters on Metal Surfaces. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 5047-5067	3.8	86

198	Quasicrystal surfaces. <i>Annual Review of Physical Chemistry</i> , 2008 , 59, 129-52	15.7	47
197	Novel Self-Organized Structure of a Ag ₃ Complex on the Ag(111) Surface below Room Temperature. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 4281-4290	3.8	23
196	Friction anisotropy: A unique and intrinsic property of decagonal quasicrystals. <i>Journal of Materials Research</i> , 2008 , 23, 1488-1493	2.5	25
195	Measurements of contact angles of water on Al-based intermetallic surfaces. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 314011	1.8	10
194	Atomic scale friction and adhesion properties of quasicrystal surfaces. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 314012	1.8	28
193	Comparison between experimental surface data and bulk structure models for quasicrystalline AlPdMn: Average atomic densities and chemical compositions. <i>Physical Review B</i> , 2008 , 77,	3.3	36
192	Exploration of complex multilayer film growth morphologies: STM analysis and predictive atomistic modeling for Ag on Ag(111). <i>Physical Review B</i> , 2008 , 77,	3.3	24
191	Kinetics of facile bilayer island formation at low temperature: Ag/NiAl(110). <i>Physical Review Letters</i> , 2008 , 100, 116105	7.4	27
190	Quasicrystals at Interfaces. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 310301	1.8	4
189	X-ray photoelectron spectroscopy studies of the early-stage oxidation behavior of (Pt, Ni) ₃ Al(111) surfaces in air. <i>Surface Science</i> , 2008 , 602, 205-215	1.8	16
188	Correlations between structure and chemical composition on oxidized (Pt,Ni) ₃ Al(111) surfaces. <i>Surface Science</i> , 2008 , 602, 1092-1100	1.8	
187	Terrace-dependent nucleation of small Ag clusters on a five-fold icosahedral quasicrystal surface. <i>Philosophical Magazine</i> , 2007 , 87, 2995-3001	1.6	6
186	The effect of Pt on Ni ₃ Al surface oxidation at low-pressures. <i>Surface Science</i> , 2007 , 601, 146-154	1.8	10
185	Segregation of Pt at clean surfaces of (Pt, Ni) ₃ Al. <i>Surface Science</i> , 2007 , 601, 376-380	1.8	13
184	Influence of carrier density on the friction properties of silicon pn junctions. <i>Physical Review B</i> , 2007 , 76,	3.3	39
183	Ripening of monolayer vacancy pits on metal surfaces: Pathways, energetics, and size-scaling for Ag(111) versus Ag(100). <i>Physical Review B</i> , 2007 , 75,	3.3	13
182	Scanning tunneling microscopy and density functional theory study of initial bilayer growth of Ag films on NiAl(110). <i>Physical Review B</i> , 2007 , 76,	3.3	26
181	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> , 2007 , 75,	3.3	28

180	Kinetic Monte Carlo Simulation of Epitaxial Thin Film Growth: Formation of Submonolayer Islands and Multilayer Mounds. <i>AIP Conference Proceedings</i> , 2007 ,	0	2
179	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> , 2006 , 600, 2220-2230	1.8	21
178	Modelling of the energetics and kinetics of Al deposition on 5-fold Al-rich quasicrystal surfaces. <i>Philosophical Magazine</i> , 2006 , 86, 831-840	1.6	13
177	Adhesion properties of decagonal quasicrystals in ultrahigh vacuum. <i>Philosophical Magazine</i> , 2006 , 86, 945-950	1.6	18
176	Voids and pits on sputter-annealed fivefold terraces of icosahedral AlPdMn quasicrystals. <i>Philosophical Magazine</i> , 2006 , 86, 819-824	1.6	7
175	Electronic control of friction in silicon pn junctions. <i>Science</i> , 2006 , 313, 186	33.3	141
174	Tribological properties of quasicrystals: Effect of aperiodic versus periodic surface order. <i>Physical Review B</i> , 2006 , 74,	3.3	38
173	Morphological evolution during epitaxial thin film growth: Formation of 2D islands and 3D mounds. <i>Surface Science Reports</i> , 2006 , 61, 1-128	12.9	582
172	Step structure on the fivefold AlPdMn quasicrystal surface, and on related surfaces. <i>Surface Science</i> , 2005 , 583, 4-15	1.8	22
171	High frictional anisotropy of periodic and aperiodic directions on a quasicrystal surface. <i>Science</i> , 2005 , 309, 1354-6	33.3	171
170	Temperature dependence of island growth shapes during submonolayer deposition of Ag on Ag(111). <i>Physical Review B</i> , 2005 , 71,	3.3	50
169	Quantum size effects in metal thin films grown on quasicrystalline substrates. <i>Physical Review Letters</i> , 2005 , 95, 155504	7.4	66
168	Elastic and inelastic deformations of ethylene-passivated tenfold decagonal AlNiCo quasicrystal surfaces. <i>Physical Review B</i> , 2005 , 71,	3.3	33
167	Sensing dipole fields at atomic steps with combined scanning tunneling and force microscopy. <i>Physical Review Letters</i> , 2005 , 95, 136802	7.4	45
166	Atomic scale coexistence of periodic and quasiperiodic order in a 2-fold Al-Ni-Co decagonal quasicrystal surface. <i>Physical Review B</i> , 2005 , 72,	3.3	23
165	Terrace selection during equilibration at an icosahedral quasicrystal surface. <i>Physical Review B</i> , 2005 , 71,	3.3	27
164	New phenomena in epitaxial growth: solid films on quasicrystalline substrates. <i>Journal Physics D: Applied Physics</i> , 2005 , 38, R83-R106	3	70
163	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> , 2004 , 17, 629-636	2.8	55

162	Structure and oxidation at quasicrystal surfaces. <i>Progress in Surface Science</i> , 2004 , 75, 191-204	6.6	8
161	Geometric structure of Bergman clusters related to bulk amorphous alloys and quasicrystals. <i>Philosophical Magazine</i> , 2004 , 84, 825-834	1.6	13
160	Energetic Parameters for Atomic-Scale Processes on Ag(100) \square <i>Journal of Physical Chemistry B</i> , 2004 , 108, 14428-14433	3.4	13
159	Experimental evidence of the stability of net planes in decagonal quasicrystals. <i>Journal of Non-Crystalline Solids</i> , 2004 , 334-335, 486-490	3.9	1
158	Tribological properties of a B2-type Al-Pd-Mn quasicrystal approximant. <i>Journal of Materials Research</i> , 2003 , 18, 1447-1456	2.5	27
157	Pseudomorphic starfish: nucleation of extrinsic metal atoms on a quasicrystalline substrate. <i>Surface Science</i> , 2003 , 526, 115-120	1.8	74
156	Growth of Ag thin films on complex surfaces of quasicrystals and approximant phases. <i>Surface Science</i> , 2003 , 537, 5-26	1.8	49
155	Photoemission studies of the sputter-induced phase transformation on the AlCuBe surface. <i>Surface Science</i> , 2003 , 539, 54-62	1.8	14
154	Palladium clusters formed on the complex pseudo-10-fold surface of the \square -Al _{77.5} Pd ₁₉ Mn _{3.5} approximant crystal. <i>Surface Science</i> , 2003 , 541, 147-159	1.8	12
153	The effect of common gases on nucleation of metal islands: The role of oxygen in Ag(100) homoepitaxy. <i>Journal of Chemical Physics</i> , 2003 , 118, 6467-6472	3.9	21
152	Surface structure of Al-Pd-Mn quasicrystals: Existence of supersaturated bulk vacancy concentrations. <i>Physical Review B</i> , 2003 , 67,	3.3	19
151	Influence of strain in Ag on Al(111) and Al on Ag(100) thin film growth. <i>Physical Review B</i> , 2003 , 67,	3.3	22
150	Nucleation and growth of Ag films on a quasicrystalline AlPdMn surface. <i>Physical Review B</i> , 2003 , 67,	3.3	55
149	Surface structures of approximant phases in the Al-Pd-Mn system. <i>Physical Review B</i> , 2002 , 66,	3.3	31
148	STM study of the atomic structure of the icosahedral Al-Cu-Fe fivefold surface. <i>Physical Review B</i> , 2002 , 65,	3.3	36
147	Additive-enhanced coarsening and smoothening of metal films: Complex mass-flow dynamics underlying nanostructure evolution. <i>Physical Review B</i> , 2002 , 65,	3.3	38
146	Sintering of Metal(100) Homoepitaxial Islands: Kink Rounding Barriers, Modified Size Scaling, and Experimental Behavior. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 749, 1		4
145	Analysis of Gas-Phase Clusters Made from Laser-Vaporized Icosahedral AlPdMn. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 9204-9208	2.8	6

144	Development and ordering of mounds during metal(100) homoepitaxy. <i>Physical Review B</i> , 2002 , 65,	3.3	61
143	Approaching the low-temperature limit in nucleation and two-dimensional growth of fcc (100) metal films Ag/Ag(100). <i>Physical Review B</i> , 2002 , 66,	3.3	23
142	New approximants in the Al ₁₃ Cr ₇ Fe system and their oxidation resistance. <i>Journal of Alloys and Compounds</i> , 2002 , 342, 24-29	5.7	29
141	Surface preparation and characterization of the icosahedral Al ₇₅ Cu ₂₃ Pd ₂ Mn quasicrystal. <i>Journal of Alloys and Compounds</i> , 2002 , 338, 248-252	5.7	11
140	Morphology of multilayer Ag/Ag(100) films versus deposition temperature: STM analysis and atomistic lattice-gas modeling. <i>Physical Review B</i> , 2001 , 63,	3.3	54
139	Surface oxidation of Al ₁₃ Cr ₇ Fe alloys characterized by X-ray photoelectron spectroscopy. <i>Applied Surface Science</i> , 2001 , 173, 327-338	6.7	45
138	Determination of Auger sensitivity factors for Al-rich quasicrystals. <i>Applied Surface Science</i> , 2001 , 180, 57-64	6.7	13
137	Evolution of two-dimensional wormlike nanoclusters on metal surfaces. <i>Physical Review Letters</i> , 2001 , 86, 3088-91	7.4	44
136	Testing realistic environments for metal film growth and aging: chemical insights into the effect of oxygen on Ag/Ag(100). <i>Surface Science</i> , 2001 , 472, L151-L156	1.8	27
135	Structural aspects of the fivefold quasicrystalline Al ₇₅ Cu ₂₃ Fe surface from STM and dynamical LEED studies. <i>Surface Science</i> , 2001 , 495, 19-34	1.8	45
134	A structural refinement with LEED for the Pd(100)($\sqrt{5}\sqrt{5}$)R27 \times O surface. <i>Surface Science</i> , 2001 , 494, L799-L804	1.8	32
133	Kinetic Roughening of Multilayer Ag/Ag(100) Films: Complex Temperature-Dependence in a Simple System. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 619, 15		2
132	Modeling of Metal(100) Homoepitaxial Film Growth at Very Low Temperatures. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 619, 49		
131	Low-Energy Ion Scattering Measurements from an Al-Pd-Mn Quasicrystal. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 643, 1111		3
130	Comparative Study of the Tribological and Oxidative Properties of AlPdMn Quasicrystals and Their Cubic Approximants. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 643, 821		1
129	Analysis of Gas Phase Clusters Made from Laser-Vaporized Icosahedral Al-Pd-Mn. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 643, 541		
128	Effect of sputtering gas on the surface composition of an AlPdMn quasicrystal. <i>Applied Surface Science</i> , 2000 , 157, 23-28	6.7	23
127	Quasicrystals. Electrons in a strange sea. <i>Nature</i> , 2000 , 406, 570-1, 573	50.4	21

126	Evolution of far-from-equilibrium nanostructures on Ag(100) surfaces: Protrusions and indentations at extended step edges. <i>Physical Review B</i> , 2000 , 61, 4910-4925	3-3	26
125	Electronic structure of quasicrystalline surfaces: Effects of surface preparation and bulk structure. <i>Physical Review B</i> , 2000 , 62, 14049-14060	3-3	37
124	Using temperature to tune film roughness: nonintuitive behavior in a simple system. <i>Physical Review Letters</i> , 2000 , 85, 800-3	7-4	58
123	Nucleation, Growth, and Relaxation of Thin Films: Metal(100) Homoepitaxial Systems. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 1663-1676	3-4	36
122	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> , 1999 , 14, 3185-3188	2-5	19
121	Fine structure on flat surfaces of quasicrystalline Al-Pd-Mn. <i>Physical Review B</i> , 1999 , 60, 14688-14694	3-3	61
120	Adatom capture by arrays of two-dimensional Ag islands on Ag(100). <i>Physical Review B</i> , 1999 , 59, 3125-3134	3-4	76
119	Surface Science of Quasicrystals. <i>Springer Series in Solid-state Sciences</i> , 1999 , 327-359	0-4	13
118	Smoluchowski ripening of Ag islands on Ag(100). <i>Journal of Chemical Physics</i> , 1999 , 111, 5157-5166	3-9	56
117	Friction between single-grain Al ₇₀ Pd ₂₁ Mn ₉ quasicrystal surfaces. <i>Surface Science</i> , 1999 , 423, 243-255	1-8	44
116	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> , 1999 , 79, 91-110		40
115	HORIZONS IN QUASICRYSTAL RESEARCH. <i>Series on Directions in Condensed Matter Physics</i> , 1999 , 561-601		
114	CLUSTER DIFFUSION, COALESCENCE, AND COARSENING IN METAL(100) HOMOEPITAXIAL SYSTEMS. <i>Series on Directions in Condensed Matter Physics</i> , 1999 , 384-402		
113	Comments on quasicrystals and their potential use as catalysts. <i>Journal of Molecular Catalysis A</i> , 1998 , 131, 301-306		35
112	Quasicrystals: A Short Review from a Surface Science Perspective. <i>Langmuir</i> , 1998 , 14, 1392-1397	4	35
111	Formation and Equilibration of Submonolayer Island Distributions in Ag/Ag(100) Homoepitaxy. <i>Langmuir</i> , 1998 , 14, 1487-1492	4	27
110	Surface Reactivity of a Sputter-Annealed Al ₇₀ Pd ₂₁ Mn ₉ Quasicrystal. <i>Journal of the American Chemical Society</i> , 1998 , 120, 12668-12669	16-4	15
109	Crystalline surface structures induced by ion sputtering of Al-rich icosahedral quasicrystals. <i>Physical Review B</i> , 1998 , 58, 9961-9971	3-3	89

108	High-resolution LEED profile analysis and diffusion barrier estimation for submonolayer homoepitaxy of Ag/Ag(100). <i>Physical Review B</i> , 1998 , 57, 12544-12549	3.3	44
107	Fivefold surface of quasicrystalline AlPdMn: Structure determination using low-energy-electron diffraction. <i>Physical Review B</i> , 1998 , 57, 7628-7641	3.3	126
106	Evolution of Far-From-Equilibrium Nanostructures Formed by Cluster-Step and Cluster-Cluster Coalescence in Metal Films. <i>Physical Review Letters</i> , 1998 , 81, 2950-2953	7.4	64
105	Electrochemical Pitting and Repassivation on Icosahedral Al-Cu-Fe, and A Comparison With Crystalline Phases. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 553, 275		6
104	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> , 1997 , 78, 1050-1053	7.4	42
103	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> , 1997 , 75, 271-281		37
102	Structural Analysis of the Fivefold Symmetric Surface of the Al ₇₀ Pd ₂₁ Mn ₉ Quasicrystal by Low Energy Electron Diffraction. <i>Physical Review Letters</i> , 1997 , 78, 467-470	7.4	145
101	An Electron-Stimulated Desorption Ion Angular Distribution and Low-Energy Electron Diffraction Investigation of CF ₃ I on Ru(001). <i>Langmuir</i> , 1996 , 12, 3472-3480	4	6
100	Effectiveness of a fluorinated nickel surface in catalyzing the decomposition of a perfluoropolyether analog. <i>Surface Science</i> , 1996 , 348, 175-184	1.8	1
99	Coarsening mechanisms in a metal film: From cluster diffusion to vacancy ripening. <i>Physical Review Letters</i> , 1996 , 76, 652-655	7.4	177
98	Preparation of well-defined samples of AlPdMn quasicrystals for surface studies. <i>Applied Surface Science</i> , 1996 , 103, 485-493	6.7	46
97	Initial stages of metal encapsulation during epitaxial growth studied by STM: Rh/Ag(100). <i>Physical Review B</i> , 1996 , 53, 13747-13752	3.3	38
96	Photoelectron spectra of an Al ₇₀ Pd ₂₁ Mn ₉ quasicrystal and the cubic alloy Al ₆₀ Pd ₂₅ Mn ₁₅ . <i>Physical Review B</i> , 1996 , 54, 6301-6306	3.3	104
95	Thermally-Induced and Electron-Induced Chemistry of CF ₃ I on Ni(100). <i>Journal of the American Chemical Society</i> , 1995 , 117, 438-445	16.4	22
94	Oxygen adsorption on a single-grain, quasicrystal surface. <i>Surface Science</i> , 1995 , 337, 135-146	1.8	88
93	Structural determination of a NiO(111) film on Ni(100) by dynamical low-energy electron-diffraction analysis. <i>Journal of Chemical Physics</i> , 1994 , 100, 659-663	3.9	35
92	Investigations into the chemistry of perfluorodiethoxymethane at nickel and nickel oxide surfaces. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1994 , 12, 2101-2106	2.9	9
91	The stabilization of formate on Pt(111) by coadsorbed atomic oxygen. <i>Chemical Physics Letters</i> , 1994 , 220, 167-171	2.5	13

90	Structural determination of an intermixed (1 \times 1) Au film on Pd(110) by dynamical low-energy electron-diffraction analysis. <i>Surface Science</i> , 1994 , 318, 243-252	1.8	10
89	Tensor LEED analysis of the Pd(100)($\sqrt{3}\times\sqrt{3}$)R27 $^\circ$ surface structure. <i>Surface Science</i> , 1994 , 318, 129-138	1.8	40
88	Diffusion of large two-dimensional Ag clusters on Ag(100). <i>Physical Review Letters</i> , 1994 , 73, 2591-2594	7.4	290
87	Surface Diffusion of Large Ag Clusters on Ag(100). <i>Materials Research Society Symposia Proceedings</i> , 1994 , 355, 15		
86	Surface self-diffusion barrier of Pd(100) from low-energy electron diffraction. <i>Surface Science</i> , 1993 , 298, 378-383	1.8	25
85	Local and collective structure of formate on Pt(111). <i>Surface Science</i> , 1993 , 290, L655-L661	1.8	8
84	Homoepitaxial growth on Pd(100). <i>Surface Science</i> , 1993 , 289, 75-84	1.8	24
83	Epitaxial growth in a strained system: Ni(100) $\sqrt{7}\times\sqrt{7}$. <i>Surface Science</i> , 1993 , 282, 229-236	1.8	10
82	Determination of (1 x 1) and (1 x 2) structures of Pt thin films on Pd(110) by dynamical low-energy electron-diffraction analysis. <i>Physical Review B</i> , 1993 , 47, 10839-10847	3.3	6
81	Dynamical low-energy electron-diffraction investigation of lateral displacements in the topmost layer of Pd(110). <i>Physical Review B</i> , 1993 , 47, 10848-10851	3.3	14
80	Structural phenomena related to associative and dissociative adsorption of water on Ni(110). <i>Journal of Chemical Physics</i> , 1992 , 97, 3760-3774	3.9	38
79	Method for recoating phosphor on commercial low-energy electron diffraction optics. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1992 , 10, 413-415	2.9	3
78	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> , 1992 , 114, 1231-1237	16.4	95
77	Evidence for a hydrogen-bonded complex between water and formic acid coadsorbed on Pt(111). <i>Surface Science</i> , 1992 , 271, 139-148	1.8	15
76	Identification of reconstruction in Pt films deposited on Pd(110) at room temperature. <i>Physical Review B</i> , 1991 , 44, 13734-13739	3.3	5
75	Reconstructions of Au films on Pd(110). <i>Physical Review B</i> , 1991 , 43, 8834-8840	3.3	14
74	Ordered structures and structural transformations on a K-covered Au(110) surface. <i>Surface Science</i> , 1991 , 253, 270-282	1.8	26
73	Surprising effect of deposition temperature on Pt/Pd(110) reconstruction. <i>Surface Science</i> , 1991 , 257, 79-85	1.8	4

72	Growth mode and CO adsorption properties of Au films on Pd(110). <i>Surface Science</i> , 1991 , 248, 287-294	1.8	26
71	Diffraction profile analysis for epitaxial growth on fcc(100) substrates: diffusionless models. <i>Surface Science</i> , 1991 , 256, 205-215	1.8	11
70	New chemical manifestations of hydrogen bonding in water adlayers. <i>Accounts of Chemical Research</i> , 1991 , 24, 31-35	24.3	9
69	Pt and Au films grown on Pd(110): dependence of (1 \times) and (1 β) reconstructions on deposition temperature and film thickness. <i>Vacuum</i> , 1990 , 41, 471-472	3.7	1
68	Unexpected structure in Rh films on Ag(100): implications for magnetic films on noble-metal substrates. <i>Vacuum</i> , 1990 , 41, 1411-1413	3.7	5
67	Growth of Rh, Pd, and Pt films on Cu(100). <i>Physical Review B</i> , 1990 , 41, 3353-3359	3.3	67
66	The interaction of a fluorinated ether with a metal surface: Effects of surface morphology and water coadsorption. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1990 , 8, 2269-2273	2.9	3
65	A warning concerning the use of glass capillary arrays in gas dosing: Potential chemical reactions. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1990 , 8, 148-149	2.9	6
64	Cluster diffusivity: Structure, correlation, and scaling. <i>Journal of Chemical Physics</i> , 1990 , 93, 9018-9025	3.9	39
63	Structural steps to oxidation of Ni(100). <i>Journal of Chemical Physics</i> , 1990 , 92, 2025-2035	3.9	67
62	Surface Properties of PbO ₂ and Bi-Modified PbO ₂ Electrodes. <i>Journal of the Electrochemical Society</i> , 1990 , 137, 1017-1022	3.9	5
61	Fluorinated and Hydrogenated Ethers Adsorbed at Metal Surfaces: A Surface Science Tribology Study. <i>Tribology Transactions</i> , 1990 , 33, 557-562	1.8	10
60	Low-temperature epitaxial growth of thin metal films. <i>Physical Review B</i> , 1990 , 41, 5410-5413	3.3	223
59	Adsorption and desorption of CF ₃ I on Ru(001). <i>Surface Science</i> , 1990 , 238, 169-179	1.8	15
58	Cyclic ethers adsorbed on Ru(001). <i>Surface Science</i> , 1990 , 238, 180-186	1.8	6
57	The reaction of formic acid with clean and water-covered Pt(111). <i>Surface Science</i> , 1990 , 235, 53-59	1.8	39
56	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> , 1989 , 7, 2162-2166	2.9	35
55	Novel metal-film configuration: Rh on Ag(100). <i>Physical Review B</i> , 1989 , 40, 11477-11487	3.3	79

54	Influence of adsorption-site geometry and diffusion on thin-film growth: Pt/Pd(100). <i>Ultramicroscopy</i> , 1989 , 31, 80-86	3.1	7
53	Adsorption of water on Ru(100). <i>Surface Science</i> , 1989 , 218, 346-362	1.8	12
52	Low-temperature metastable states in thermal desorption of cyclic ethers. <i>Surface Science</i> , 1989 , 220, L647-L656	1.8	4
51	The bonding of fluorinated and hydrogenated diethers to Ru(001). <i>Surface Science</i> , 1989 , 224, 425-450	1.8	29
50	Surface Chemistry of Perfluoropolyethers and Hydrogenated Analogs: Are Studies of Model Compounds Useful?. <i>Springer Series in Surface Sciences</i> , 1989 , 89-97	0.4	1
49	Use of LEED intensity oscillations in monitoring thin film growth. <i>Langmuir</i> , 1988 , 4, 1096-1100	4	28
48	Oxygen-stabilized reconstructions of Pd(100): Phase transitions during oxygen desorption. <i>Surface Science</i> , 1988 , 205, 117-142	1.8	43
47	The interaction of NF ₃ with Ru(0001): Order at steps. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1988 , 6, 675-680	2.9	9
46	Oxygen on Pd(100): Order, reconstruction, and desorption. <i>Journal of Chemical Physics</i> , 1988 , 88, 2071-2082	9.2	107
45	Summary Abstract: Temperature- and coverage-dependent structures of oxygen on Pd(100). <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1988 , 6, 837-839	2.9	3
44	The Bonding of Fluorinated and Hydrogenated Ethers to Metal Surfaces: A Surface Science Approach to Tribology. <i>Materials Research Society Symposia Proceedings</i> , 1988 , 140, 417		
43	Surface Structures Determined by Kinetic Processes: Adsorption and Diffusion of Oxygen on Pd(100). <i>Springer Series in Surface Sciences</i> , 1988 , 231-237	0.4	1
42	Design parameters for differentially pumped rotating platforms. <i>Review of Scientific Instruments</i> , 1987 , 58, 309-310	1.7	5
41	Summary Abstract: Bonding of oxygenated fluorocarbons to metal surfaces: Steric effects versus electronic effects. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1987 , 5, 539-540	2.9	340
40	Structure and mechanism of alkali-metal-induced reconstruction of fcc (110) surfaces. <i>Physical Review B</i> , 1987 , 36, 9267-9270	3.3	75
39	Formation of a metastable ordered surface phase due to competitive diffusion and adsorption kinetics: Oxygen on Pd(100). <i>Physical Review Letters</i> , 1987 , 59, 296-299	7.4	75
38	Summary Abstract: Isotope effect in water desorption from Ru(001). <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1987 , 5, 1086-1088	2.9	1
37	Isotope effect in water desorption from Ru(001). <i>Surface Science</i> , 1987 , 186, 219-231	1.8	55

36	Simple, inexpensive delay circuit for protection against vacuum loss from power interruptions. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1987 , 5, 386-387	2.9	2
35	Summary Abstract: Potassium on Ni(110) and Au(110): Adlayer ordering and/or surface reconstruction. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1987 , 5, 794-796 ^{2,9}		11
34	Summary Abstract: Evidence for unusual dissociative adsorption of benzene on Ru(001). <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1987 , 5, 828-829	2.9	1
33	Oxygenated fluorocarbons adsorbed at metal surfaces: chemisorption bond strengths and decomposition. <i>Journal of the American Chemical Society</i> , 1987 , 109, 5621-5627	16.4	36
32	Identification of metastable adsorption states in thermal desorption spectroscopy. <i>Langmuir</i> , 1987 , 3, 1178-1180	4	8
31	The interaction of water with solid surfaces: Fundamental aspects. <i>Surface Science Reports</i> , 1987 , 7, 211-325	2.5	2108
30	Displacement of cyclohexane by water on a ruthenium surface. <i>Journal of Catalysis</i> , 1986 , 99, 88-94	7.3	19
29	Summary Abstract: Reconstruction in a thin film: Epitaxial Pt on Pd(100). <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1986 , 4, 1524-1525	2.9	
28	A versatile data acquisition system for low-energy electron diffraction. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1986 , 4, 1367-1371	2.9	21
27	Unusually facile dissociation of benzene by ruthenium metal. <i>Journal of the American Chemical Society</i> , 1986 , 108, 7560-7	16.4	47
26	Electron-stimulated desorption and thermal desorption spectrometry of H ₂ O on nickel (111). <i>Surface Science</i> , 1985 , 157, 99-118	1.8	64
25	Simple, efficient UHV manipulator. <i>Review of Scientific Instruments</i> , 1984 , 55, 1669-1671	1.7	17
24	The vibrational spectra of chemisorbed molecular clusters: H ₂ O on Ru(001). <i>Journal of Chemical Physics</i> , 1984 , 80, 5326-5331	3.9	81
23	The formation and decomposition of KOH on Ru(001). <i>Chemical Physics Letters</i> , 1984 , 108, 25-31	2.5	57
22	Molecule-Substrate Vibration of CO on Ni(100) Studied by Infrared-Emission Spectroscopy. <i>Physical Review Letters</i> , 1984 , 52, 648-651	7.4	100
21	The oxidation of CO on pt(100): Mechanism and structure. <i>Surface Science</i> , 1984 , 147, 143-161	1.8	29
20	The C=O stretching vibration of CO on Ni(100) by infrared emission spectroscopy. <i>Surface Science</i> , 1984 , 140, 393-399	1.8	44
19	The adsorption of cyclic hydrocarbons on Ru(001). <i>Surface Science</i> , 1983 , 130, 163-172	1.8	28

18	The adsorption of cyclic hydrocarbons on Ru(001). <i>Surface Science</i> , 1983 , 130, 173-190	1.8	57
17	Coadsorption of Oxygen and Water on Ru (001): Vibrational and Structural Properties. <i>Physical Review Letters</i> , 1982 , 49, 501-504	7.4	41
16	Mechanism of an adsorbate-induced surface phase transformation: CO on Pt(100). <i>Surface Science</i> , 1982 , 121, L553-L560	1.8	69
15	Monolayer and multilayer adsorption of water on Ru(001). <i>Journal of Chemical Physics</i> , 1981 , 75, 5556-5573	3.7	168
14	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> , 1981 , 18, 651-652		18
13	Adsite symmetry and vibrational structure of NO and H ₂ co-adsorbed on the Ru(001) surface. <i>Journal of Chemical Physics</i> , 1980 , 73, 4081-4085	3.9	24
12	Segregation of co-adsorbed species: Hydrogen and carbon monoxide on the (111) surface of rhodium. <i>Journal of Chemical Physics</i> , 1980 , 72, 3496-3505	3.9	55
11	The chemisorption of hydrogen on Rh(111). <i>Surface Science</i> , 1979 , 84, 427-439	1.8	134
10	The co-adsorption of oxygen and hydrogen on Rh(111). <i>Surface Science</i> , 1979 , 90, 121-132	1.8	24
9	The structure of CO adsorbed on Pd(100): A leed and hreels analysis. <i>Surface Science</i> , 1979 , 88, L59-L66	1.8	111
8	The chemisorption of Co on Rh(111). <i>Surface Science</i> , 1979 , 84, 54-64	1.8	192
7	The interaction of oxygen with the Rh(111) surface a. <i>Surface Science</i> , 1979 , 82, 22-44	1.8	176
6	The catalytic reaction between adsorbed oxygen and hydrogen on Rh(111). <i>Surface Science</i> , 1979 , 82, 45-68	1.8	95
5	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> , 1979 , 71, 1643-1646	3.9	61
4	The adsorption of nitric oxide on Ru(001). <i>Chemical Physics Letters</i> , 1979 , 67, 403-407	2.5	43
3	The geometrical and vibrational properties of the Rh(111) surface. <i>Surface Science</i> , 1978 , 76, 296-310	1.8	40
2	Rearrangement-substitution reactions of a 2-(arylsulfonyl)allyl system. <i>Journal of Organic Chemistry</i> , 1976 , 41, 248-251	4.2	4
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