

Yoshitada Morikawa

List of Publications by Citations

Source: <https://exaly.com/author-pdf/9524816/yoshitada-morikawa-publications-by-citations.pdf>
Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

276 papers	9,324 citations	52 h-index	88 g-index
295 ext. papers	10,085 ext. citations	3.5 avg, IF	5.96 L-index

#	Paper	IF	Citations
276	CO chemisorption at metal surfaces and overlayers. <i>Physical Review Letters</i> , 1996 , 76, 2141-2144	7.4	1135
275	Breaking the 10 nm barrier in hard-X-ray focusing. <i>Nature Physics</i> , 2010 , 6, 122-125	16.2	413
274	Adsorption state of dimethyl disulfide on Au(111): Evidence for adsorption as thiolate at the bridge site. <i>Journal of Chemical Physics</i> , 2001 , 114, 7615-7621	3.9	271
273	Spin- and energy-dependent tunneling through a single molecule with intramolecular spatial resolution. <i>Physical Review Letters</i> , 2010 , 105, 047204	7.4	240
272	Theoretical study of hydrogenation process of formate on clean and Zn deposited Cu(1 1 1) surfaces. <i>Applied Surface Science</i> , 2001 , 169-170, 11-15	6.7	198
271	Focusing of X-ray free-electron laser pulses with reflective optics. <i>Nature Photonics</i> , 2013 , 7, 43-47	33.9	195
270	Theoretical study of n-alkane adsorption on metal surfaces. <i>Physical Review B</i> , 2004 , 69,	3.3	178
269	Efficient focusing of hard x rays to 25nm by a total reflection mirror. <i>Applied Physics Letters</i> , 2007 , 90, 051903	3.4	173
268	Jahn-Teller distortion and magnetic structures in LaMnO ₃ . <i>Physical Review B</i> , 1997 , 56, 12154-12160	3.3	152
267	State-selective dissociation of a single water molecule on an ultrathin MgO film. <i>Nature Materials</i> , 2010 , 9, 442-7	27	146
266	Density functional theory investigation of benzenethiol adsorption on Au(111). <i>Journal of Chemical Physics</i> , 2004 , 120, 6705-11	3.9	128
265	Optimized structures and electronic properties of alkali-metal (Na, K) -adsorbed Si(001) surfaces. <i>Physical Review B</i> , 1992 , 45, 3469-3484	3.3	125
264	Microstitching interferometry for x-ray reflective optics. <i>Review of Scientific Instruments</i> , 2003 , 74, 2894-2898	28.9	117
263	Electrode Dynamics from First Principles. <i>Journal of the Physical Society of Japan</i> , 2008 , 77, 024802	1.5	116
262	Density functional theoretical study of pentacene/noble metal interfaces with van der Waals corrections: vacuum level shifts and electronic structures. <i>Journal of Chemical Physics</i> , 2010 , 132, 134703	3.9	114
261	Electronic structures of Au on TiO ₂ (110) by first-principles calculations. <i>Physical Review B</i> , 2004 , 69,	3.3	114
260	Structure of the water/platinum interface--a first principles simulation under bias potential. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 3609-12	3.6	108

259	Generation of 10(20) W cm ⁻² hard X-ray laser pulses with two-stage reflective focusing system. <i>Nature Communications</i> , 2014 , 5, 3539	17.4	105
258	Adsorption geometries and vibrational modes of C ₂ H ₂ on the Si(001) surface. <i>Physical Review B</i> , 2001 , 63,	3.3	104
257	Density Functional Calculations of N ₂ Adsorption and Dissociation on a Ru(0001) Surface. <i>Journal of Catalysis</i> , 1997 , 169, 85-92	7.3	97
256	Origin of the stability of Ge(105) on si: a new structure model and surface strain relaxation. <i>Physical Review Letters</i> , 2002 , 88, 176101	7.4	94
255	Relative angle determinable stitching interferometry for hard x-ray reflective optics. <i>Review of Scientific Instruments</i> , 2005 , 76, 045102	1.7	93
254	First-principles molecular dynamics simulation of biased electrode/solution interface. <i>Surface Science</i> , 2007 , 601, 5237-5240	1.8	92
253	Novel abrasive-free planarization of 4H-SiC (0001) using catalyst. <i>Journal of Electronic Materials</i> , 2006 , 35, L11-L14	1.9	91
252	Order-disorder phase transition on the Si(001) surface: Critical role of dimer defects. <i>Physical Review B</i> , 1994 , 49, 14774-14777	3.3	89
251	Direct observation of hydrogen-bond exchange within a single water dimer. <i>Physical Review Letters</i> , 2008 , 100, 166101	7.4	88
250	Oxygen vacancy promoting catalytic dehydration of formic acid on TiO ₂ (110) by in situ scanning tunneling microscopic observation. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 18831-8	3.4	87
249	Fabrication of elliptical mirror at nanometer-level accuracy for hard x-ray focusing by numerically controlled plasma chemical vaporization machining. <i>Review of Scientific Instruments</i> , 2003 , 74, 4549-4553	1.7	87
248	First-principles theoretical study of alkylthiolate adsorption on Au(). <i>Surface Science</i> , 2002 , 507-510, 46-508	1.8	87
247	CO adsorption and dissociation on Pt(111) and Ni(111) surfaces. <i>Surface Science</i> , 1997 , 386, 67-72	1.8	85
246	Kinetic mechanism of methanol decomposition on Ni(111) surface: a theoretical study. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 12431-42	3.4	84
245	First-principles study of benzene on noble metal surfaces: Adsorption states and vacuum level shifts. <i>Surface Science</i> , 2009 , 603, 2912-2922	1.8	79
244	First-principles molecular dynamics study of acetylene adsorption on the Si(001) surface. <i>Surface Science</i> , 1995 , 341, L1091-L1095	1.8	79
243	Structures of Pt clusters on graphene by first-principles calculations. <i>Surface Science</i> , 2010 , 604, 144-154	1.8	76
242	Imaging of all dangling bonds and their potential on the Ge/Si105 surface by noncontact atomic force microscopy. <i>Physical Review Letters</i> , 2004 , 93, 266102	7.4	75

241	A density functional theory study of self-regenerating catalysts LaFe(1-x)M(x)O(3-y) (M = Pd, Rh, Pt). <i>Journal of the American Chemical Society</i> , 2011 , 133, 18506-9	16.4	71
240	Cluster and periodic DFT calculations of adsorption and activation of CO ₂ on the Cu(hkl) surfaces. <i>Surface Science</i> , 2004 , 570, 205-217	1.8	70
239	A density-functional study of the atomic structures and vibrational spectra of NO/Pt(111). <i>Surface Science</i> , 2002 , 514, 394-403	1.8	70
238	Density-Functional Analysis of Hydrogen on Pt(111): Electric Field, Solvent, and Coverage Effects. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 10889-10898	3.8	68
237	Role of molecular orbitals near the fermi level in the excitation of vibrational modes of a single molecule at a scanning tunneling microscope junction. <i>Physical Review Letters</i> , 2008 , 100, 136104	7.4	65
236	Atomic-scale flattening of SiC surfaces by electroless chemical etching in HF solution with Pt catalyst. <i>Applied Physics Letters</i> , 2007 , 90, 202106	3.4	65
235	Further lowering of work function by oxygen adsorption on the K/Si(001) surface. <i>Physical Review B</i> , 1995 , 51, 14802-14805	3.3	65
234	Why is formate synthesis insensitive to copper surface structures?. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 9-11	3.4	63
233	Comparison of localized basis and plane-wave basis for density-functional calculations of organic molecules on metals. <i>Physical Review B</i> , 2007 , 75,	3.3	62
232	First-principles theoretical study of metallic states of DCNQI-(Cu,Ag) systems: Simplicity and variety in complex systems. <i>Physical Review Letters</i> , 1995 , 74, 5104-5107	7.4	61
231	Green's function method for elimination of the spurious multipole interaction in the surface/interface slab model. <i>Physical Review B</i> , 2009 , 80,	3.3	60
230	Fabrication of elliptically figured mirror for focusing hard x rays to size less than 50nm. <i>Review of Scientific Instruments</i> , 2005 , 76, 063708	1.7	59
229	First-Principles Theoretical Study and Scanning Tunneling Microscopic Observation of Dehydration Process of Formic Acid on a TiO ₂ (110) Surface— <i>Journal of Physical Chemistry B</i> , 2004 , 108, 14446-14451	3.4	59
228	Tunneling dynamics of a hydroxyl group adsorbed on Cu(110). <i>Physical Review B</i> , 2009 , 79,	3.3	58
227	Interaction of water with a metal surface: Importance of van der Waals forces. <i>Physical Review B</i> , 2010 , 81,	3.3	55
226	Comparative study of dehydrogenation of methanol at Pt(1 1 1)/water and Pt(1 1 1)/vacuum interfaces. <i>Chemical Physics Letters</i> , 2003 , 377, 236-242	2.5	54
225	Adsorption of CO ₂ on Graphene: A Combined TPD, XPS, and vdW-DF Study. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 2807-2814	3.8	52
224	Dissociative adsorption of CO ₂ on flat, stepped, and kinked Cu surfaces. <i>Journal of Chemical Physics</i> , 2014 , 141, 034702	3.9	50

223	At-wavelength figure metrology of hard x-ray focusing mirrors. <i>Review of Scientific Instruments</i> , 2006 , 77, 063712	1.7	50
222	Theoretical support to the double-layer model for potassium adsorption on the Si(001) surface. <i>Physical Review B</i> , 1991 , 44, 3459-3462	3.3	50
221	Ab initio molecular dynamics of solvation effects on reactivity at electrified interfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E4937-45	11.5	50
220	Adsorption of n-butane on Cu(100), Cu(111), Au(111), and Pt(111): Van der Waals density-functional study. <i>Physical Review B</i> , 2010 , 82,	3.3	48
219	First-principles theoretical study of Alq3/Al interfaces: origin of the interfacial dipole. <i>Journal of Chemical Physics</i> , 2008 , 128, 244704	3.9	48
218	First-principles study of the pentacene/Cu(111) interface: Adsorption states and vacuum level shifts. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2009 , 174, 78-84	1.7	43
217	Ab initio study of surface structural changes during methanol synthesis over Zn/Cu(111). <i>Chemical Physics Letters</i> , 1999 , 304, 91-97	2.5	43
216	Methylthiolate induced vacancy formation on Au(111): a density functional theoretical study. <i>Surface Science</i> , 2002 , 514, 389-393	1.8	41
215	First-principles molecular dynamics study of alkali-metal adsorption on a Si(001) surface. <i>Surface Science</i> , 1993 , 283, 377-382	1.8	41
214	Vibration-driven reaction of CO on Cu surfaces via Eley-Rideal-type mechanism. <i>Nature Chemistry</i> , 2019 , 11, 722-729	17.6	38
213	Individual Atomic Imaging of Multiple Dopant Sites in As-Doped Si Using Spectro-Photoelectron Holography. <i>Nano Letters</i> , 2017 , 17, 7533-7538	11.5	37
212	Symmetric hydrogen bond in a water-hydroxyl complex on Cu(110). <i>Physical Review B</i> , 2010 , 81,	3.3	37
211	Switchover of Reaction Mechanism for the Catalytic Decomposition of HCOOH on a TiO ₂ (110) Surface. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 16379-16386	3.8	37
210	Important role of molecular permanent dipoles of the Alq3/Al interface studied from first-principles. <i>Chemical Physics Letters</i> , 2006 , 420, 523-528	2.5	37
209	Thinning of silicon-on-insulator wafers by numerically controlled plasma chemical vaporization machining. <i>Review of Scientific Instruments</i> , 2004 , 75, 942-946	1.7	36
208	HOMO band dispersion of crystalline rubrene: Effects of self-energy corrections within the GW approximation. <i>Physical Review B</i> , 2013 , 88,	3.3	34
207	Direct determination of the wave field of an x-ray nanobeam. <i>Physical Review A</i> , 2008 , 77,	2.6	34
206	Catalyst-referred etching of 4H-SiC substrate utilizing hydroxyl radicals generated from hydrogen peroxide molecules. <i>Surface and Interface Analysis</i> , 2008 , 40, 998-1001	1.5	34

205	Intermolecular interaction as the origin of red shifts in absorption spectra of zinc-phthalocyanine from first-principles. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 11246-53	2.8	33
204	CO adsorption on the copper surfaces: van der Waals density functional and TPD studies. <i>Journal of Chemical Physics</i> , 2017 , 147, 094702	3.9	33
203	Self-consistent van der Waals density functional study of benzene adsorption on Si(100). <i>Physical Review B</i> , 2016 , 93,	3.3	32
202	A theoretical study of surface-structural sensitivity of the reverse water-gas shift reaction over Cu(hkl) surfaces. <i>Surface Science</i> , 2003 , 543, 118-130	1.8	32
201	Rebonded SB step model of Ge/Si(111): A first-principles theoretical study. <i>Surface Science</i> , 2002 , 513, L445-L450	1.8	30
200	Dynamic fracture of tantalum under extreme tensile stress. <i>Science Advances</i> , 2017 , 3, e1602705	14.3	30
199	Structure and binding energies of unsaturated hydrocarbons on Si(001) and Ge(001). <i>Journal of Chemical Physics</i> , 2006 , 124, 024716	3.9	29
198	Cooperative H ₂ Activation at Ag Cluster/Al ₂ O ₃ (110) Dual Perimeter Sites: A Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 7996-8006	3.8	28
197	Effects of stoichiometry on electronic states of Au and Pt supported on TiO ₂ (110). <i>Journal of Materials Science</i> , 2005 , 40, 3075-3080	4.3	28
196	Structural phase transition on Si(001) and Ge(001) surfaces. <i>Phase Transitions</i> , 1995 , 53, 143-163	1.3	28
195	Coverage-dependent core-level binding-energy shifts of alkali-metal atoms on metal surfaces. <i>Physical Review B</i> , 1993 , 47, 4014-4017	3.3	28
194	Angle-resolved photoemission from Nd _{2-x} Ce _x CuO ₄ (001): A dispersive bandlike Fermi-liquid state of Cu 3d character near the Fermi level. <i>Physical Review B</i> , 1990 , 42, 4189-4195	3.3	28
193	Nearly diffraction-limited X-ray focusing with variable-numerical-aperture focusing optical system based on four deformable mirrors. <i>Scientific Reports</i> , 2016 , 6, 24801	4.9	28
192	A Comparison of N ₂ and CO Adsorption on Ru(001). <i>Zeitschrift Fur Physikalische Chemie</i> , 1997 , 198, 113-122	3.2	27
191	Atomically Smooth Gallium Nitride Surfaces Prepared by Chemical Etching with Platinum Catalyst in Water. <i>Journal of the Electrochemical Society</i> , 2012 , 159, H417-H420	3.9	26
190	Structural and chemical characteristics of atomically smooth GaN surfaces prepared by abrasive-free polishing with Pt catalyst. <i>Journal of Crystal Growth</i> , 2012 , 349, 83-88	1.6	26
189	Dependence of process characteristics on atomic-step density in catalyst-referred etching of 4H-SiC(0001) surface. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 2928-30	1.3	24
188	A Study on a Surface Preparation Method for Single-Crystal SiC Using an Fe Catalyst. <i>Journal of Electronic Materials</i> , 2009 , 38, 159-163	1.9	24

187	First principles study of thermal decomposition of alkylgallium and tertiary butylarsine. <i>Journal of Chemical Physics</i> , 2000 , 112, 9549-9556	3.9	24
186	Search for a Self-Regenerating Perovskite Catalyst Using ab Initio Thermodynamics Calculations. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 1278-1286	3.8	23
185	Highly accurate differential deposition for X-ray reflective optics. <i>Surface and Interface Analysis</i> , 2008 , 40, 1019-1022	1.5	23
184	Density Functional Theoretical Study of Perfluoropentacene/Noble Metal Interfaces with van der Waals Corrections: Adsorption States and Vacuum Level Shifts. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 5767-5772	3.8	22
183	Adsorption states of methylthiolate on the Au(111) surface. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 365245	1.8	22
182	Stability of homochiral and heterochiral phases of glycinate on Cu(001): a first principles theoretical study. <i>Surface Science</i> , 2004 , 553, L63-L67	1.8	22
181	Coverage-dependent core level photoemission investigations of Na/Cu(111) and Na/Ni(111). <i>Surface Science</i> , 1993 , 290, 69-79	1.8	22
180	Structural and dynamic properties of 1-butyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide/mica and graphite interfaces revealed by molecular dynamics simulation. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 6668-6676	3.6	21
179	Termination dependence of surface stacking at 4H-SiC(0001)111: Density functional theory calculations. <i>Physical Review B</i> , 2009 , 79,	3.3	21
178	Characterization of temporal coherence of hard X-ray free-electron laser pulses with single-shot interferograms. <i>IUCrJ</i> , 2017 , 4, 728-733	4.7	21
177	Electronic structure of the 4 × 4 silicene monolayer on semi-infinite Ag(111). <i>New Journal of Physics</i> , 2015 , 17, 015013	2.9	20
176	First-principles molecular dynamics study of CO adsorption on the Si(001) surface. <i>Chemical Physics Letters</i> , 1998 , 287, 131-136	2.5	20
175	Density functional theoretical calculations for a Co2/gamma-Al2O3 model catalyst: structures of the gamma-Al2O3 bulk and surface and attachment sites for Co2+ ions. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 4929-36	3.4	20
174	Hard X-ray nanofocusing using adaptive focusing optics based on piezoelectric deformable mirrors. <i>Review of Scientific Instruments</i> , 2015 , 86, 043102	1.7	19
173	Planarization of SiC and GaN Wafers Using Polishing Technique Utilizing Catalyst Surface Reaction. <i>ECS Journal of Solid State Science and Technology</i> , 2013 , 2, N3028-N3035	2	19
172	C60 Adsorbed on Platinum Surface: A Good Mediator of Metal Wave Function. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 3504-3506	3.8	19
171	Two-dimensional self-assembled structures of adenine molecules: modeling and simulation. <i>Surface Science</i> , 2004 , 556, 109-120	1.8	19
170	Chemisorption and thermal decomposition of benzene on palladium(110): high-resolution electron energy loss spectroscopy, low-energy electron diffraction, and thermal desorption studies. <i>The Journal of Physical Chemistry</i> , 1991 , 95, 7415-7422		19

169	Water Monomer and Dimer on Cu(110) Studied Using a Scanning Tunneling Microscope. <i>E-Journal of Surface Science and Nanotechnology</i> , 2008 , 6, 296-300	0.7	19
168	Photoelectron Holographic Atomic Arrangement Imaging of Cleaved Bimetal-intercalated Graphite Superconductor Surface. <i>Scientific Reports</i> , 2016 , 6, 36258	4.9	18
167	Spatial electron distribution of CO adsorbed on Ni(100) and Ni(111) surfaces probed by metastable impact electron spectroscopy. <i>Journal of Chemical Physics</i> , 2001 , 114, 8546-8554	3.9	18
166	Performance of a hard X-ray split-and-delay optical system with a wavefront division. <i>Journal of Synchrotron Radiation</i> , 2018 , 25, 20-25	2.4	18
165	Development of Co Supported on Co ₃ Al Spinel Catalysts from Exsolution of Amorphous Co ₃ Al Oxides for Carbon Dioxide Reforming of Methane. <i>ChemCatChem</i> , 2019 , 11, 5593-5605	5.2	17
164	Diffusion mechanism of Na ion-polaron complex in potential cathode materials NaVOPO and VOPO for rechargeable sodium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 23625-23634	3.6	17
163	Fabrication of ultrathin and highly uniform silicon on insulator by numerically controlled plasma chemical vaporization machining. <i>Review of Scientific Instruments</i> , 2007 , 78, 086102	1.7	17
162	Desorption dynamics of CO from formate decomposition on Cu(111). <i>Chemical Communications</i> , 2017 , 53, 9222-9225	5.8	16
161	Chemical etching of silicon carbide in pure water by using platinum catalyst. <i>Applied Physics Letters</i> , 2017 , 110, 201601	3.4	15
160	Electronic states and growth modes of Zn atoms deposited on Cu(111) studied by XPS, UPS and DFT. <i>Surface Science</i> , 2017 , 663, 1-10	1.8	15
159	First-principles investigation on the segregation of Pd at LaFe _{1-x} Pd _x O _{3-y} surfaces. <i>Nanoscale Research Letters</i> , 2013 , 8, 203	5	15
158	The charged interface between Pt and water: First principles molecular dynamics simulations. <i>AIP Advances</i> , 2012 , 2, 032182	1.5	15
157	Local Electronic Properties Induced at the Molecule/Metal Interface. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 11747-11750	3.8	15
156	Theoretical Investigation on the Electronic Structure of the Tris-(8-hydroxyquinolinato) Aluminum/Aluminum Interface. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 413-416	1.4	15
155	Improvement of the thickness distribution of a quartz crystal wafer by numerically controlled plasma chemical vaporization machining. <i>Review of Scientific Instruments</i> , 2005 , 76, 096103	1.7	15
154	X-ray optics for advanced ultrafast pump-probe X-ray experiments at SACLA. <i>Journal of Synchrotron Radiation</i> , 2019 , 26, 333-338	2.4	15
153	Density functional theory study on a nitrogen-rich carbon nitride material CN as photocatalyst for CO reduction to C1 and C2 products. <i>Journal of Colloid and Interface Science</i> , 2021 , 585, 740-749	9.3	15
152	First-principles theoretical study of organic/metal interfaces: Vacuum level shifts and interface dipoles. <i>Current Applied Physics</i> , 2012 , 12, S2-S9	2.6	14

151	Defect-Free Planarization of 4H-BiC(0001) Substrate Using Reference Plate. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 104-107	1.4	14
150	A first-principles study on nitrogen solubility in Na flux toward theoretical search for a novel flux for bulk GaN growth. <i>Journal of Crystal Growth</i> , 2007 , 303, 34-36	1.6	14
149	Investigation of the Surface Removal Process of Silicon Carbide in Elastic Emission Machining. <i>Journal of Electronic Materials</i> , 2007 , 36, 92-97	1.9	14
148	Insight into Trimeric Formation of Nitric Oxide on Cu(111): A Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 2968-2977	3.8	13
147	Enhancement of CO adsorption on oxygen-functionalized epitaxial graphene surface under near-ambient conditions. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 19532-19538	3.6	13
146	Theoretical investigation of the band structure of picene single crystals within the GW approximation. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 05FY02	1.4	13
145	Adsorption of hydrogen fluoride on SiC surfaces: A density functional theory study. <i>Current Applied Physics</i> , 2012 , 12, S42-S46	2.6	13
144	The local electronic properties and formation process of titanium silicide nanostructures on Si(001)-(2 × 1). <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 485006	1.8	13
143	Adsorption structure of benzenethiol on Au(111): first-principles study. <i>Applied Surface Science</i> , 2004 , 237, 434-439	6.7	13
142	Platinum single-atom adsorption on graphene: a density functional theory study. <i>Nanoscale Advances</i> , 2019 , 1, 1165-1174	5.1	12
141	Mechanistic Analysis of Oxygen Vacancy Formation and Ionic Transport in Sr ₃ Fe ₂ O ₇ . <i>Journal of Physical Chemistry C</i> , 2018 , 122, 4172-4181	3.8	12
140	Density-functional theoretical study of fluorination effect on organic/metal interfaces. <i>Organic Electronics</i> , 2011 , 12, 295-299	3.5	12
139	A density-functional theory study of water on clean and hydrogen preadsorbed Rh(111) surfaces. <i>Journal of Chemical Physics</i> , 2011 , 134, 154701	3.9	12
138	Theoretical investigation of the electronic structure of the Alq(3)/Mg interface. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 064247	1.8	12
137	Stitching interferometric metrology for steeply curved x-ray mirrors. <i>Surface and Interface Analysis</i> , 2008 , 40, 1023-1027	1.5	12
136	Structural and vibrational properties of alkali-metal overlayers on metals. <i>Surface Science</i> , 1993 , 291, 87-92	1.8	12
135	Angle-resolved photoemission from epitaxial Nd _{2-x} Ce _x CuO ₄ (001) films. <i>Solid State Communications</i> , 1990 , 74, 609-611	1.6	12
134	Hybrid image potential states in molecular overlayers on graphene. <i>Physical Review Materials</i> , 2017 , 1,	3.2	12

- 133 Van der Waals density functional study of formic acid adsorption and decomposition on Cu(111). *Journal of Chemical Physics*, **2019**, 150, 154707 3.9 11
- 132 First-principles study of ZnSnAs₂-based dilute magnetic semiconductors. *Japanese Journal of Applied Physics*, **2018**, 57, 020306 1.4 11
- 131 Microscopic properties of ionic liquid/organic semiconductor interfaces revealed by molecular dynamics simulations. *Physical Chemistry Chemical Physics*, **2018**, 20, 13075-13083 3.6 11
- 130 Damage-Free Planarization of 2-Inch 4H-SiC Wafer Using Pt Catalyst Plate and HF Solution. *Materials Science Forum*, **2008**, 600-603, 835-838 0.4 11
- 129 A new aspect of heterogeneous catalysis: Highly reactive cis-(NO)₂ dimer and Eley-Rideal mechanism for NO_x/O reaction on a Co-dimer/Alumina catalyst. *Chemical Physics Letters*, **2007**, 443, 66-70 2.5 11
- 128 First-principles molecular dynamics study of Al/Alq₃ interfaces. *Science and Technology of Advanced Materials*, **2007**, 8, 191-195 7.1 10
- 127 Study of Interaction between Au and TiO₂(110) at Low Coverage. *Materials Transactions*, **2006**, 47, 2663-2668 2.6 10
- 126 Stability and electronic structure of Ge(105)1 \times 12: a first-principles theoretical study. *Surface Science*, **2005**, 576, 61-66 1.8 10
- 125 Improvement of Removal Rate in Abrasive-Free Planarization of 4H-SiC Substrates Using Catalytic Platinum and Hydrofluoric Acid. *Japanese Journal of Applied Physics*, **2012**, 51, 046501 1.4 10
- 124 Development of speckle-free channel-cut crystal optics using plasma chemical vaporization machining for coherent x-ray applications. *Review of Scientific Instruments*, **2016**, 87, 063118 1.7 10
- 123 Experimental and computational studies on ruthenium(ii) bis-diimine complexes of N,N'-chelate ligands: the origin of changes in absorption spectra upon oxidation and reduction. *Physical Chemistry Chemical Physics*, **2019**, 21, 7973-7988 3.6 9
- 122 Enhancement of photoluminescence efficiency from GaN(0001) by surface treatments. *Japanese Journal of Applied Physics*, **2014**, 53, 021001 1.4 9
- 121 First-principles theoretical study of hydrolysis of stepped and kinked Ga-terminated GaN surfaces. *Nanoscale Research Letters*, **2013**, 8, 232 5 9
- 120 Understanding the Metal-Molecule Interface from First Principles **2013**, 51-89 9
- 119 Adsorption of benzene on noble metal surfaces studied by density functional theory with Van der Waals correction. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 2836-43 1.3 9
- 118 Origin of Surface-Band Dispersion at the Pentacene/Cu Interface. *Applied Physics Express*, **2010**, 3, 025701 1.4 9
- 117 Simulation of growth process of Pt-particles - first-principles calculations. *Journal of Physics: Conference Series*, **2008**, 100, 072044 0.3 9
- 116 Ionic-Liquid-Originated Carrier Trapping Dynamics at the Interface in Electric Double-Layer Organic FET Revealed by Operando Interfacial Analyses. *Journal of Physical Chemistry C*, **2020**, 124, 2543-2552 3.8 9

115	Potential dependent changes in the structural and dynamical properties of 1-butyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide on graphite electrodes revealed by molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 19408-19415	3.6	8
114	First-Principles Molecular Dynamics Analysis of Ligand-Free Suzuki-Miyaura Cross-Coupling in Water: Transmetalation and Reductive Elimination. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 19904-19914	3.8	8
113	Development of ion beam figuring system with electrostatic deflection for ultraprecise X-ray reflective optics. <i>Review of Scientific Instruments</i> , 2015 , 86, 093103	1.7	8
112	Chemisorption-induced gap states at organic-metal interfaces: benzenethiol and benzeneselenol on metal surfaces. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 4101-8	3.6	8
111	Local electronic properties at organic-metal interfaces: thiophene derivatives on Pt(111). <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 15412-20	3.6	8
110	The relationship between formate adsorption energy and electronic properties: A first principles density functional theory study. <i>Science in China Series B: Chemistry</i> , 2009 , 52, 1427-1433		8
109	Electronic structure of hydrogen-terminated silicon surfaces [H-Si(111)] studied by two-photon photoemission. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 98, 735-743	2.6	8
108	Theoretical study of vacuum level shift at the C ₆ H ₆ /Al(111) interface. <i>Surface and Interface Analysis</i> , 2008 , 40, 1059-1062	1.5	8
107	Electronic Structures of Ag and Au Adsorbed on TiO ₂ (110) Surfaces by First-Principles Calculations. <i>Materials Transactions</i> , 2006 , 47, 2669-2673	1.3	8
106	Enhanced CO tolerance of Pt clusters supported on graphene with lattice vacancies. <i>Physical Review B</i> , 2020 , 102,	3.3	8
105	Mechanism for enhanced single-crystal GaN growth in the C-assisted Na-flux method. <i>Applied Physics Express</i> , 2016 , 9, 015601	2.4	8
104	Chemisorption-induced gap state at organic-metal interface: Benzenethiol on Pt(111). <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 10914-8	3.6	7
103	Catalyst-referred etching of silicon. <i>Science and Technology of Advanced Materials</i> , 2007 , 8, 162-165	7.1	7
102	First-Principles Molecular Dynamics Analysis of Ligand-Free Suzuki-Miyaura Cross-Coupling in Water Solvent: Oxidative Addition Step. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 164-173	3.4	6
101	Catalyzed chemical polishing of SiO glasses in pure water. <i>Review of Scientific Instruments</i> , 2019 , 90, 045115	1.5	6
100	Search for a Self-Regenerating Perovskite Catalyst with Ab Initio Thermodynamics II: Cu-Doped Layered Perovskites with K ₂ NiF ₄ Structure. <i>Catalysis Letters</i> , 2014 , 144, 736-743	2.8	6
99	Study on the mechanism of platinum-assisted hydrofluoric acid etching of SiC using density functional theory calculations. <i>Applied Physics Letters</i> , 2015 , 107, 201601	3.4	6
98	First-principles investigation of the GaN growth process in carbon-added Na-flux method. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 1084-1088	1.3	6

97	TEM Observation of 8 Deg Off-Axis 4H-SiC (0001) Surfaces Planarized by Catalyst-Referred Etching. <i>Materials Science Forum</i> , 2011 , 679-680, 489-492	0.4	6
96	Adsorption of Alq3 on Mg(001) surface: Role of chemical bonding, molecular distortion, and van der Waals interaction. <i>Physical Review B</i> , 2011 , 83,	3.3	6
95	Characteristics and Mechanism of Catalyst-Referred Etching Method: Application to 4H-SiC. <i>International Journal of Automation Technology</i> , 2018 , 12, 154-159	0.8	6
94	Simulation and Experimental Study of Wavefront Measurement Accuracy of the Pencil-Beam Method. <i>Synchrotron Radiation News</i> , 2016 , 29, 32-36	0.6	6
93	A micro channel-cut crystal X-ray monochromator for a self-seeded hard X-ray free-electron laser. <i>Journal of Synchrotron Radiation</i> , 2019 , 26, 1496-1502	2.4	6
92	Adsorption of toxic gases on borophene: surface deformation links to chemisorptions.. <i>RSC Advances</i> , 2021 , 11, 18279-18287	3.7	6
91	Hydrogen Bond-Induced Nitric Oxide Dissociation on Cu(110). <i>Journal of Physical Chemistry C</i> , 2018 , 122, 11814-11824	3.8	6
90	Absolute surface energies of oxygen-adsorbed GaN surfaces. <i>Journal of Crystal Growth</i> , 2020 , 549, 125868	5	
89	Platinum-catalyzed hydrolysis etching of SiC in water: A density functional theory study. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 055703	1.4	5
88	Augmented pH-sensitivity absorbance of a ruthenium(ii) bis(bipyridine) complex with elongation of the conjugated ligands: an experimental and theoretical investigation. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 25734-25745	3.6	5
87	Computational investigations of electronic structure modifications of ferrocene-terminated self-assembled monolayers: effects of electron donating/withdrawing functional groups attached on the ferrocene moiety. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 32715-32722	3.6	5
86	Catalyst-Assisted Electroless Flattening of Ge Surfaces in Dissolved-O ₂ -Containing Water. <i>ChemElectroChem</i> , 2015 , 2, 1656-1659	4.3	5
85	Density functional theory on the comparison of the Pd segregation behavior at LaO- and FeO ₂ -terminated surfaces of LaFe _{1-x} Pd _x O _{3-y} . <i>Current Applied Physics</i> , 2012 , 12, S105-S109	2.6	5
84	Structural Analysis of Carbon-Added NaGa Melts in Na Flux GaN Growth by First-Principles Calculation. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 08JA04	1.4	5
83	Mechanism of atomic-scale passivation and flattening of semiconductor surfaces by wet-chemical preparations. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 394202	1.8	5
82	High-Resolution TEM Observation of 4H-SiC (0001) Surface Planarized by Catalyst-Referred Etching. <i>Materials Science Forum</i> , 2012 , 717-720, 873-876	0.4	5
81	Effects of Supports on Hydrogen Adsorption on Pt Clusters. <i>Solid State Phenomena</i> , 2008 , 139, 41-46	0.4	5
80	Etching characteristics of GaN by plasma chemical vaporization machining. <i>Surface and Interface Analysis</i> , 2008 , 40, 1566-1570	1.5	5

79	Hydrogen-induced instability of the Ge(105) surface. <i>Physical Review Letters</i> , 2005 , 94, 086105	7.4	5
78	Local electronic states in the topmost surface layer probed by metastable atom electron spectroscopy: N ₂ adsorbed and condensed on Ni(111). <i>Physical Review B</i> , 2001 , 65,	3.3	5
77	Correlation between mobility and the hydrogen bonding network of water at an electrified-graphite electrode using molecular dynamics simulation. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 1767-1773	3.6	5
76	Manipulable Metal Catalyst for Nanographene Synthesis. <i>Nano Letters</i> , 2020 , 20, 8339-8345	11.5	5
75	Atomic and molecular adsorption on single platinum atom at the graphene edge: A density functional theory study. <i>Journal of Chemical Physics</i> , 2020 , 152, 104707	3.9	4
74	Blue moon ensemble simulation of aquation free energy profiles applied to mono and bifunctional platinum anticancer drugs. <i>Journal of Computational Chemistry</i> , 2020 , 41, 1973-1984	3.5	4
73	A New Pentacene Polymorph Induced by Interaction with a Bi(0001) Substrate. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 6240-6245	3.8	4
72	Aggregation of carbon atoms at SiO ₂ /SiC(0 0 0 1) interface by plasma oxidation toward formation of pit-free graphene. <i>Carbon</i> , 2014 , 80, 440-445	10.4	4
71	Image potential states from the van der Waals density functional. <i>Journal of Chemical Physics</i> , 2017 , 147, 044708	3.9	4
70	Study on Reactive Species in Catalyst-Referred Etching of 4H-SiC using Platinum and Hydrofluoric Acid. <i>Materials Science Forum</i> , 2013 , 740-742, 847-850	0.4	4
69	First-Principles Analysis of Dissociative Absorption of HF Molecule at SiC Surface Step Edge. <i>Materials Science Forum</i> , 2012 , 717-720, 581-584	0.4	4
68	Origin of strange vibrational spectra of NO on Pt(111) surface. <i>E-Journal of Surface Science and Nanotechnology</i> , 2007 , 5, 122-125	0.7	4
67	Density Functional Theory Investigations of Ferrocene-Terminated Self-Assembled Monolayers: Electronic State Changes Induced by Electric Dipole Field of Coadsorbed Species. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 8684-8692	3.8	4
66	Alkaline earth atom doping-induced changes in the electronic and magnetic properties of graphene: a density functional theory study.. <i>RSC Advances</i> , 2021 , 11, 6268-6283	3.7	4
65	Improvement of I-V Characteristics of Schottky Barrier Diode by 4H-SiC Surface Planarization. <i>Materials Science Forum</i> , 2015 , 821-823, 567-570	0.4	3
64	4H-SiC Planarization Using Catalyst-Referred Etching with Pure Water. <i>Materials Science Forum</i> , 2014 , 778-780, 722-725	0.4	3
63	Influence of gallium additives on surface roughness for photoelectrochemical planarization of GaN. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011 , 8, 2223-2225		3
62	Electron emission spectra of thermal collisions of He metastable atoms with Au(111) and Pt(111) surfaces: Evidence for Penning ionization. <i>Physical Review A</i> , 2009 , 80,	2.6	3

61	Electrochemistry, 2009 , 77, 241-247	1.2	3
60	Jahn-Teller distortion and magnetic structures in LaMnO ₃ . <i>Journal of Magnetism and Magnetic Materials</i> , 1998 , 177-181, 879-880	2.8	3
59	Surface gradient integrated profiler for X-ray and EUV optics. <i>Science and Technology of Advanced Materials</i> , 2007 , 8, 177-180	7.1	3
58	Analyses of three-dimensional atomic arrangements of impurities doped in Si relating to electrical activity by spectro-photoelectron holography. <i>Japanese Journal of Applied Physics</i> , 2020 , 59, 010503	1.4	3
57	Adsorption of CO ₂ on Terrace, Step, and Defect Sites on Pt Surfaces: A Combined TPD, XPS, and DFT Study. <i>Journal of Physical Chemistry C</i> ,	3.8	3
56	Oxygen vacancy induced insulator-metal transition in LaNiO ₃ thin films. <i>Physical Review B</i> , 2020 , 102,	3.3	3
55	First-principles study of the surface phase diagrams of GaN(0001) and (000̄1) under oxide vapor phase epitaxy growth conditions. <i>Physica Status Solidi (B): Basic Research</i> , 2017 , 254, 1600706	1.3	2
54	An abrasive-free chemical polishing method assisted by nickel catalyst generated by in situ electrochemical plating. <i>Review of Scientific Instruments</i> , 2020 , 91, 045108	1.7	2
53	Planarization of 4H-SiC(0001) by catalyst-referred etching using pure water etchant 2014 ,		2
52	Study of Terminated Species on 4H-SiC (0001) Surfaces Planarized by Catalyst-Referred Etching. <i>Materials Science Forum</i> , 2013 , 740-742, 510-513	0.4	2
51	First-Principles Study of Reaction Process of SiC and HF Molecules in Catalyst-Referred Etching. <i>Key Engineering Materials</i> , 2012 , 523-524, 173-177	0.4	2
50	Atomic and Electronic Structures of Pt Supported on Graphene. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 900, 1		2
49	Improvement of the Thickness Distribution of AT Cut Quartz Crystal Wafer by Open-air Type Plasma Chemical Vaporization Machining. <i>E-Journal of Surface Science and Nanotechnology</i> , 2007 , 5, 41-44	0.7	2
48	Trends in the First-principles Theoretical Study on Catalysis. <i>Hyomen Kagaku</i> , 2006 , 27, 354-359		2
47	Order-Disorder Phase Transition on the Si(001) Surface. <i>Springer Series in Solid-state Sciences</i> , 1993 , 77-87.	0.4	2
46	Identifying Atomic-Level Correlation between Geometric and Electronic Structure at a Metal/Organic Interface. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 17696-17701	3.8	2
45	Role of Intermolecular Interactions in the Catalytic Reaction of Formic Acid on Cu(111). <i>Small</i> , 2021 , 17, e2008010	11	2
44	Chemical stability of hydrogen boride nanosheets in water. <i>Communications Materials</i> , 2021 , 2,	6	2

43	Theoretical Study on Electronic Structure of Bathocuproine: Renormalization of the Band Gap in the Crystalline State and the Large Exciton Binding Energy. <i>Journal of the Chinese Chemical Society</i> , 2016 , 63, 513-520	1.5	2
42	Oxidative etching mechanism of the diamond (100) surface. <i>Carbon</i> , 2021 , 174, 36-51	10.4	2
41	A flat-lying dimer as a key intermediate in NO reduction on Cu(100). <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 16880-16887	3.6	2
40	Effects of Surface Termination and Layer Thickness on Electronic Structures of LaNiO ₃ Thin Films. <i>Journal of the Physical Society of Japan</i> , 2018 , 87, 114704	1.5	2
39	Computational Study on Atomic Structures, Electronic Properties, and Chemical Reactions at Surfaces and Interfaces and in Biomaterials. <i>Journal of the Physical Society of Japan</i> , 2018 , 87, 061013	1.5	1
38	Investigation of the Barrier Heights for Dissociative Adsorption of HF on SiC Surfaces in the Catalyst-Referred Etching Process. <i>Materials Science Forum</i> , 2014 , 778-780, 726-729	0.4	1
37	Smoothing of Single Crystalline SiC and GaN by Catalyst Referred Etching. <i>Journal of the Japan Society for Precision Engineering</i> , 2012 , 78, 947-951	0.1	1
36	Evaluation of Schottky barrier diodes fabricated directly on processed 4H-SiC(0001) surfaces. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 2809-13	1.3	1
35	A novel mechanism for spectator CO-mediated reaction with unique cis-(NO) ₂ dimer on a Co ₂ +dimer/FeAl ₂ O ₃ (110) model catalyst: Density functional theory calculations. <i>Catalysis Today</i> , 2010 , 154, 118-126	5.3	1
34	Fabrication of damascene Cu wirings using solid acidic catalyst. <i>Science and Technology of Advanced Materials</i> , 2007 , 8, 166-169	7.1	1
33	Plasma-CVM (Chemical Vaporization Machining)587-606		1
32	First-Principles Calculations of Metal/Oxide Interfaces: Effects of Interface Stoichiometry. <i>Materials Science Forum</i> , 2005 , 502, 27-32	0.4	1
31	Linear Stability of a Radial Wall Jet. <i>Aeronautical Quarterly</i> , 1979 , 30, 544-558		1
30	New Polishing Technique of Semiconductor SiC Substrate : Development of Polishing Technique Utilizing Catalyst Surface Reaction. <i>Journal of the Society of Mechanical Engineers</i> , 2012 , 115, 767-771	0	1
29	Dry Reforming of Methane on Cobalt Catalysts: DFT-Based Insights into Carbon Deposition Versus Removal. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 21902-21913	3.8	1
28	High-Efficiency Planarization of SiC Wafers by Water-CARE (Catalyst-Referred Etching) Employing Photoelectrochemical Oxidation. <i>Materials Science Forum</i> , 2019 , 963, 525-529	0.4	1
27	Mechanistic insight into oxygen vacancy migration in SrFeO from DFT+U simulations. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 18628-18639	3.6	1
26	High-Speed Etching of Silicon Carbide Wafer Using High-Pressure SF ₆ Plasma. <i>ECS Journal of Solid State Science and Technology</i> , 2021 , 10, 014005	2	1

- 25 Multi-scale Simulation of Equilibrium Step Fluctuations on Cu(111) Surfaces. *ACS Omega*, **2021**, 6, 5183-5196 1
- 24 First-principles study of polar, nonpolar, and semipolar GaN surfaces during oxide vapor phase epitaxy growth. *Japanese Journal of Applied Physics*, **2018**, 57, 115504 1.4 1
- 23 Optimal deformation procedure for hybrid adaptive x-ray mirror based on mechanical and piezo-driven bending system.. *Review of Scientific Instruments*, **2021**, 92, 123706 1.7 1
- 22 First-principles theoretical study on carrier doping effects induced by Zn vacancies in Mn-doped in ZnSnAs₂. *Japanese Journal of Applied Physics*, **2019**, 58, 110601 1.4 0
- 21 Growing 3D-nanostructured carbon allotropes from CO₂ at room temperature under the dynamic CO₂ electrochemical reduction environment. *Carbon*, **2022**, 187, 241-255 10.4 0
- 20 Electric Field Effect on the Adsorption State of Methylthiolate on Au(111). *E-Journal of Surface Science and Nanotechnology*, **2008**, 6, 99-102 0.7 0
- 19 Activation free energies for formation and dissociation of N-H, C-H, and C-H bonds in a NaGa melt. *Computational Materials Science*, **2021**, 194, 110366 3.2 0
- 18 Isotope effect of methane adsorbed on fcc metal (1 1 1) surfaces. *Chemical Physics Letters*, **2021**, 780, 138943 2.5 0
- 17 High-efficiency planarization method combining mechanical polishing and atmospheric-pressure plasma etching for hard-to-machine semiconductor substrates. *Mechanical Engineering Journal*, **2016**, 3, 15-00527-15-00527 0.5
- 16 Improvements in graphene growth on 4H-SiC(0001) using plasma induced surface oxidation. *Journal of Applied Physics*, **2019**, 126, 065301 2.5
- 15 First-principles Theoretical Study of Organic-metal Interfaces. *Hyomen Kagaku*, **2011**, 32, 9-14
- 14 Crystal Machining Using Atmospheric Pressure Plasma **2010**, 313-330
- 13 Surface Observation of 4H-SiC (0001) Planarized by Catalyst-Referred Etching. *Key Engineering Materials*, **2012**, 516, 452-456 0.4
- 12 3./Pt?????????????????. *Electrochemistry*, **2012**, 80, 932-937 1.2
- 11 Ultra-precision Figured 4H-SiC(0001) Surfaces. *Hyomen Kagaku*, **2010**, 31, 466-473
- 10 Ultraprecision Machining Method for Ultraprecise Aspherical Mirror. *The Review of Laser Engineering*, **2007**, 35, 162-167 0
- 9 Ab initio material design of CN for control of DB in a-Si. *Physica B: Condensed Matter*, **2006**, 376-377, 240-244
- 8 Atomic and Electronic Structures of Au/TiO₂ Catalyst - First-Principle Calculations. *Materials Research Society Symposia Proceedings*, **2002**, 738, 1371

7	Effect of impurities from deposition precursors on the electronic properties of Si/SiO ₂ interfaces. <i>Journal of Applied Physics</i> , 2022 , 131, 055306	2.5
6	Vibrational Spectra of NO Molecules Adsorbed on the Pt(111) Surface-Analysis by First-principles Calculations-. <i>Hyomen Kagaku</i> , 2003 , 24, 306-312	
5	Evaluation of Infrared Absorption Spectra and High Resolution Electron Energy Loss Spectra by First-principles Calculation. <i>Hyomen Kagaku</i> , 2008 , 29, 202-205	
4	An Application of the Car-Parrinello Method to a Study of Alkali-Metal Adsorbed Si(001) Surface. <i>Springer Proceedings in Physics</i> , 1992 , 31-35	0.2
3	Alkali-Metal Adsorption on the Si(001) Surface. <i>Springer Series in Solid-state Sciences</i> , 1993 , 98-111	0.4
2	Diffusion of excessively adsorbed hydrogen atoms on hydrogen terminated Si(100)(2 \times 1) surface. <i>AIP Advances</i> , 2021 , 11, 085318	1.5
1	High-throughput deterministic plasma etching using array-type plasma generator system.. <i>Review of Scientific Instruments</i> , 2021 , 92, 125107	1.7