

Yoshitada Morikawa

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.

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|--------------------|--------------------------|----------------|-----------------|
| 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 | 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 | 0 |
| 275 | Growing 3D-nanostructured carbon allotropes from CO ₂ at room temperature under the dynamic CO ₂ electrochemical reduction environment. <i>Carbon</i> , 2022 , 187, 241-255 | 10.4 | 0 |
| 274 | 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 |
| 273 | Role of Intermolecular Interactions in the Catalytic Reaction of Formic Acid on Cu(111). <i>Small</i> , 2021 , 17, e2008010 | 11 | 2 |
| 272 | Activation free energies for formation and dissociation of N-N, C-C, and C-H bonds in a NaCl melt. <i>Computational Materials Science</i> , 2021 , 194, 110366 | 3.2 | 0 |
| 271 | Chemical stability of hydrogen boride nanosheets in water. <i>Communications Materials</i> , 2021 , 2, | 6 | 2 |
| 270 | Oxidative etching mechanism of the diamond (100) surface. <i>Carbon</i> , 2021 , 174, 36-51 | 10.4 | 2 |
| 269 | Density functional theory study on a nitrogen-rich carbon nitride material CN as photocatalyst for CO reduction to C ₁ and C ₂ products. <i>Journal of Colloid and Interface Science</i> , 2021 , 585, 740-749 | 9.3 | 15 |
| 268 | 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 |
| 267 | 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 |
| 266 | Adsorption of toxic gases on borophene: surface deformation links to chemisorptions.. <i>RSC Advances</i> , 2021 , 11, 18279-18287 | 3.7 | 6 |
| 265 | 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 |
| 264 | 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 |
| 263 | Multi-scale Simulation of Equilibrium Step Fluctuations on Cu(111) Surfaces. <i>ACS Omega</i> , 2021 , 6, 5183-5196 | 3.96 | 1 |
| 262 | Diffusion of excessively adsorbed hydrogen atoms on hydrogen terminated Si(100)(2x1) surface. <i>AIP Advances</i> , 2021 , 11, 085318 | 1.5 | 0 |
| 261 | Isotope effect of methane adsorbed on fcc metal (1 1 1) surfaces. <i>Chemical Physics Letters</i> , 2021 , 780, 138943 | 2.5 | 0 |
| 260 | Optimal deformation procedure for hybrid adaptive x-ray mirror based on mechanical and piezo-driven bending system.. <i>Review of Scientific Instruments</i> , 2021 , 92, 123706 | 1.7 | 1 |

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|-----|---|------|----|
| 259 | High-throughput deterministic plasma etching using array-type plasma generator system.. <i>Review of Scientific Instruments</i> , 2021 , 92, 125107 | 1.7 | |
| 258 | Absolute surface energies of oxygen-adsorbed GaN surfaces. <i>Journal of Crystal Growth</i> , 2020 , 549, 125868 | 5 | |
| 257 | 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 |
| 256 | 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 |
| 255 | 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 |
| 254 | 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 |
| 253 | 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 |
| 252 | 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 |
| 251 | Ionic-Liquid-Originated Carrier Trapping Dynamics at the Interface in Electric Double-Layer Organic FET Revealed by Operando Interfacial Analyses. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 2543-2552 | 3.8 | 9 |
| 250 | 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 |
| 249 | Enhanced CO tolerance of Pt clusters supported on graphene with lattice vacancies. <i>Physical Review B</i> , 2020 , 102, | 3.3 | 8 |
| 248 | Oxygen vacancy induced insulator-metal transition in LaNiO ₃ thin films. <i>Physical Review B</i> , 2020 , 102, | 3.3 | 3 |
| 247 | Manipulable Metal Catalyst for Nanographene Synthesis. <i>Nano Letters</i> , 2020 , 20, 8339-8345 | 11.5 | 5 |
| 246 | 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 |
| 245 | Platinum single-atom adsorption on graphene: a density functional theory study. <i>Nanoscale Advances</i> , 2019 , 1, 1165-1174 | 5.1 | 12 |
| 244 | Vibration-driven reaction of CO on Cu surfaces via Eley-Rideal-type mechanism. <i>Nature Chemistry</i> , 2019 , 11, 722-729 | 17.6 | 38 |
| 243 | Catalyzed chemical polishing of SiO ₂ glasses in pure water. <i>Review of Scientific Instruments</i> , 2019 , 90, 045115 | 1.5 | 6 |
| 242 | Van der Waals density functional study of formic acid adsorption and decomposition on Cu(111). <i>Journal of Chemical Physics</i> , 2019 , 150, 154707 | 3.9 | 11 |

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|-----|--|-----|----|
| 241 | 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. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 7973-7988 | 3.6 | 9 |
| 240 | Improvements in graphene growth on 4H-SiC(0001) using plasma induced surface oxidation. <i>Journal of Applied Physics</i> , 2019 , 126, 065301 | 2.5 | |
| 239 | First-principles theoretical study on carrier doping effects induced by Zn vacancies in Mn-doped in ZnSnAs ₂ . <i>Japanese Journal of Applied Physics</i> , 2019 , 58, 110601 | 1.4 | 0 |
| 238 | 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 |
| 237 | 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 |
| 236 | 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 |
| 235 | 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 |
| 234 | 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 |
| 233 | 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 |
| 232 | First-principles study of ZnSnAs ₂ -based dilute magnetic semiconductors. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 020306 | 1.4 | 11 |
| 231 | Microscopic properties of ionic liquid/organic semiconductor interfaces revealed by molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 13075-13083 | 3.6 | 11 |
| 230 | 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 |
| 229 | 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 |
| 228 | 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 |
| 227 | 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 |
| 226 | 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 |
| 225 | 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 |
| 224 | 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 |

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|-----|---|------|----|
| 223 | First-principles study of polar, nonpolar, and semipolar GaN surfaces during oxide vapor phase epitaxy growth. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 115504 | 1.4 | 1 |
| 222 | 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 |
| 221 | Hydrogen Bond-Induced Nitric Oxide Dissociation on Cu(110). <i>Journal of Physical Chemistry C</i> , 2018 , 122, 11814-11824 | 3.8 | 6 |
| 220 | 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 |
| 219 | Chemical etching of silicon carbide in pure water by using platinum catalyst. <i>Applied Physics Letters</i> , 2017 , 110, 201601 | 3.4 | 15 |
| 218 | 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 |
| 217 | First-principles study of the surface phase diagrams of GaN(0001) and (000 $\bar{1}$) under oxide vapor phase epitaxy growth conditions. <i>Physica Status Solidi (B): Basic Research</i> , 2017 , 254, 1600706 | 1.3 | 2 |
| 216 | 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 |
| 215 | Image potential states from the van der Waals density functional. <i>Journal of Chemical Physics</i> , 2017 , 147, 044708 | 3.9 | 4 |
| 214 | 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 |
| 213 | 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 |
| 212 | 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 |
| 211 | Desorption dynamics of CO from formate decomposition on Cu(111). <i>Chemical Communications</i> , 2017 , 53, 9222-9225 | 5.8 | 16 |
| 210 | 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 |
| 209 | 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 |
| 208 | Hybrid image potential states in molecular overlayers on graphene. <i>Physical Review Materials</i> , 2017 , 1, 014001 | 3.2 | 12 |
| 207 | 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 |
| 206 | Dynamic fracture of tantalum under extreme tensile stress. <i>Science Advances</i> , 2017 , 3, e1602705 | 14.3 | 30 |

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| 205 | High-efficiency planarization method combining mechanical polishing and atmospheric-pressure plasma etching for hard-to-machine semiconductor substrates. <i>Mechanical Engineering Journal</i> , 2016 , 3, 15-00527-15-00527 | 0.5 | |
| 204 | Self-consistent van der Waals density functional study of benzene adsorption on Si(100). <i>Physical Review B</i> , 2016 , 93, | 3.3 | 32 |
| 203 | Photoelectron Holographic Atomic Arrangement Imaging of Cleaved Bimetal-intercalated Graphite Superconductor Surface. <i>Scientific Reports</i> , 2016 , 6, 36258 | 4.9 | 18 |
| 202 | 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 |
| 201 | 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 |
| 200 | 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 |
| 199 | Development of speckle-free channel-cut crystal optics using plasma chemical vaporization machining for coherent x-ray applications. <i>Review of Scientific Instruments</i> , 2016 , 87, 063118 | 1.7 | 10 |
| 198 | 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 |
| 197 | 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 |
| 196 | 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 |
| 195 | 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 |
| 194 | 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 |
| 193 | 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 |
| 192 | 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 |
| 191 | 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 |
| 190 | Catalyst-Assisted Electroless Flattening of Ge Surfaces in Dissolved-O ₂ -Containing Water. <i>ChemElectroChem</i> , 2015 , 2, 1656-1659 | 4.3 | 5 |
| 189 | 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 |
| 188 | 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 |

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| 187 | Dissociative adsorption of CO ₂ on flat, stepped, and kinked Cu surfaces. <i>Journal of Chemical Physics</i> , 2014 , 141, 034702 | 3.9 | 50 |
| 186 | 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 |
| 185 | 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 |
| 184 | Aggregation of carbon atoms at SiO ₂ /SiC(0 0 1) interface by plasma oxidation toward formation of pit-free graphene. <i>Carbon</i> , 2014 , 80, 440-445 | 10.4 | 4 |
| 183 | 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 |
| 182 | Enhancement of photoluminescence efficiency from GaN(0001) by surface treatments. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 021001 | 1.4 | 9 |
| 181 | Planarization of 4H-SiC(0001) by catalyst-referred etching using pure water etchant 2014 , | | 2 |
| 180 | 4H-SiC Planarization Using Catalyst-Referred Etching with Pure Water. <i>Materials Science Forum</i> , 2014 , 778-780, 722-725 | 0.4 | 3 |
| 179 | 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 |
| 178 | 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 |
| 177 | First-principles theoretical study of hydrolysis of stepped and kinked Ga-terminated GaN surfaces. <i>Nanoscale Research Letters</i> , 2013 , 8, 232 | 5 | 9 |
| 176 | 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 |
| 175 | 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 |
| 174 | Focusing of X-ray free-electron laser pulses with reflective optics. <i>Nature Photonics</i> , 2013 , 7, 43-47 | 33.9 | 195 |
| 173 | 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 |
| 172 | Understanding the Metal/Molecule Interface from First Principles 2013 , 51-89 | | 9 |
| 171 | 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 |
| 170 | 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 |

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| 169 | 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 |
| 168 | Structural Analysis of Carbon-Added Na _{0.5} Al Melts in Na Flux GaN Growth by First-Principles Calculation. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 08JA04 | 1.4 | 5 |
| 167 | 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 |
| 166 | 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 |
| 165 | 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 . <i>Current Applied Physics</i> , 2012 , 12, S105-S109 | 2.6 | 5 |
| 164 | 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 |
| 163 | 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 |
| 162 | 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 |
| 161 | Adsorption of hydrogen fluoride on SiC surfaces: A density functional theory study. <i>Current Applied Physics</i> , 2012 , 12, S42-S46 | 2.6 | 13 |
| 160 | The charged interface between Pt and water: First principles molecular dynamics simulations. <i>AIP Advances</i> , 2012 , 2, 032182 | 1.5 | 15 |
| 159 | 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 |
| 158 | Surface Observation of 4H-SiC (0001) Planarized by Catalyst-Referred Etching. <i>Key Engineering Materials</i> , 2012 , 516, 452-456 | 0.4 | |
| 157 | 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 |
| 156 | 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 |
| 155 | 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 |
| 154 | 3.2/Pt?????????????????????. <i>Electrochemistry</i> , 2012 , 80, 932-937 | 1.2 | |
| 153 | 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 |
| 152 | Improvement of Removal Rate in Abrasive-Free Planarization of 4H-SiC Substrates Using Catalytic Platinum and Hydrofluoric Acid. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 046501 | 1.4 | 10 |

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| 151 | 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 |
| 150 | First-principles Theoretical Study of Organic-metal Interfaces. <i>Hyomen Kagaku</i> , 2011 , 32, 9-14 | | |
| 149 | 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 |
| 148 | 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 |
| 147 | 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 |
| 146 | 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 |
| 145 | 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 |
| 144 | Density-functional theoretical study of fluorination effect on organic/metal interfaces. <i>Organic Electronics</i> , 2011 , 12, 295-299 | 3.5 | 12 |
| 143 | Adsorption of benzene on noble metal surfaces studied by density functional theory with Van der Waals correction. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 2836-43 | 1.3 | 9 |
| 142 | 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 |
| 141 | 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 |
| 140 | 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 |
| 139 | State-selective dissociation of a single water molecule on an ultrathin MgO film. <i>Nature Materials</i> , 2010 , 9, 442-7 | 27 | 146 |
| 138 | Breaking the 10 nm barrier in hard-X-ray focusing. <i>Nature Physics</i> , 2010 , 6, 122-125 | 16.2 | 413 |
| 137 | Interaction of water with a metal surface: Importance of van der Waals forces. <i>Physical Review B</i> , 2010 , 81, | 3.3 | 55 |
| 136 | Symmetric hydrogen bond in a water-hydroxyl complex on Cu(110). <i>Physical Review B</i> , 2010 , 81, | 3.3 | 37 |
| 135 | Crystal Machining Using Atmospheric Pressure Plasma 2010 , 313-330 | | |
| 134 | Spin- and energy-dependent tunneling through a single molecule with intramolecular spatial resolution. <i>Physical Review Letters</i> , 2010 , 105, 047204 | 7.4 | 240 |

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|-----|---|-----|-----|
| 133 | 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 |
| 132 | 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 |
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