

W Gero Schmidt

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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|--------------------|-------------------------|----------------|-----------------|
| 287 papers | 7,341 citations | 47 h-index | 71 g-index |
| 300 ext. papers | 8,032 ext. citations | 4.2 avg, IF | 6.04 L-index |

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 287 | Reconstructions of the As-Terminated GaAs(001) Surface Exposed to Atomic Hydrogen.. <i>ACS Omega</i> , 2022 , 7, 5064-5068 | 3.9 | 1 |
| 286 | Electron Polarons in Lithium Niobate: Charge Localization, Lattice Deformation, and Optical Response. <i>Crystals</i> , 2021 , 11, 542 | 2.3 | 2 |
| 285 | Controlled growth of ordered monolayers of N-heterocyclic carbenes on silicon. <i>Nature Chemistry</i> , 2021 , 13, 828-835 | 17.6 | 12 |
| 284 | Band Alignment at Ga _x In _{1-x} P/Al _y In _{1-y} P Alloy Interfaces from Hybrid Density Functional Theory Calculations. <i>Physica Status Solidi (B): Basic Research</i> , 2021 , 258, 2000463 | 1.3 | 2 |
| 283 | InP and AlInP(001)(2 × 4) Surface Oxidation from Density Functional Theory. <i>ACS Omega</i> , 2021 , 6, 6297-6304 | 3.9 | 3 |
| 282 | Spin Polarization, Electron-Phonon Coupling, and Zero-Phonon Line of the NV Center in 3-SiC. <i>Nano Letters</i> , 2021 , 21, 8119-8125 | 11.5 | 4 |
| 281 | Electronic structure of the Si(111)3BR30?B surface from theory and photoemission spectroscopy. <i>Physical Review B</i> , 2021 , 103, | 3.3 | 4 |
| 280 | Adatom mediated adsorption of N-heterocyclic carbenes on Cu(111) and Au(111).. <i>Journal of Computational Chemistry</i> , 2021 , | 3.5 | 2 |
| 279 | A photoredox catalysed Heck reaction hole transfer from a Ru(ii)-bis(terpyridine) complex to graphene oxide.. <i>RSC Advances</i> , 2020 , 10, 42930-42937 | 3.7 | 3 |
| 278 | Photochemical Ring Opening of Oxirane Modeled by Constrained Density Functional Theory. <i>ACS Omega</i> , 2020 , 5, 24057-24063 | 3.9 | 2 |
| 277 | Photocatalytic properties of graphene-supported titania clusters from density-functional theory. <i>Journal of Computational Chemistry</i> , 2020 , 41, 1921-1930 | 3.5 | 6 |
| 276 | Toward Efficient Toxic-Gas Detectors: Exploring Molecular Interactions of Sarin and Dimethyl Methylphosphonate with Metal-Centered Phthalocyanine Structures. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 6090-6102 | 3.8 | 8 |
| 275 | Vibrational Raman spectroscopy on adsorbate-induced low-dimensional surface structures. <i>Surface Science Reports</i> , 2020 , 75, 100480 | 12.9 | 0 |
| 274 | Electron paramagnetic resonance study of ferroelectric phase transition and dynamic effects in a Mn doped [NH][Zn(HCOO)] hybrid formate framework. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 8513-8521 | 3.6 | 1 |
| 273 | Vibration-Driven Self-Doping of Dangling-Bond Wires on Si(553)-Au Surfaces. <i>Physical Review Letters</i> , 2020 , 124, 146802 | 7.4 | 6 |
| 272 | Spin decontamination for magnetic dipolar coupling calculations: Application to high-spin molecules and solid-state spin qubits. <i>Physical Review Research</i> , 2020 , 2, | 3.9 | 3 |
| 271 | Free and defect-bound (bi)polarons in LiNbO3: Atomic structure and spectroscopic signatures from ab initio calculations. <i>Physical Review Research</i> , 2020 , 2, | 3.9 | 5 |

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| 270 | Tetracene Ultrathin Film Growth on Hydrogen-Passivated Silicon. <i>Langmuir</i> , 2020 , 36, 9099-9113 | 4 | 4 |
| 269 | Subcycle Wannier-Stark Localization by Mid-Infrared Bias in Gallium Arsenide. <i>EPJ Web of Conferences</i> , 2019 , 205, 05001 | 0.3 | |
| 268 | Accurate and Efficient Spin-Spin Zero-Field Splitting Calculations for Extended Periodic Systems 2019 , 131-140 | | |
| 267 | Excited-state band mapping and momentum-resolved ultrafast population dynamics in In/Si(111) nanowires investigated with XUV-based time- and angle-resolved photoemission spectroscopy. <i>Physical Review B</i> , 2019 , 99, | 3.3 | 11 |
| 266 | Oxygen and potassium vacancies in KTP calculated from first principles. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 385401 | 1.8 | 2 |
| 265 | Potassium titanyl phosphate (KTP) quasiparticle energies and optical response. <i>JPhys Materials</i> , 2019 , 2, 045003 | 4.2 | 2 |
| 264 | Quasiparticle and excitonic effects in the optical response of KNbO ₃ . <i>Physical Review Materials</i> , 2019 , 3, | 3.2 | 7 |
| 263 | Water Splitting Reaction at Polar Lithium Niobate Surfaces. <i>ACS Omega</i> , 2019 , 4, 3850-3859 | 3.9 | 11 |
| 262 | Electric Field Induced Raman Scattering at the SbInP(110) Interface: The Surface Dipole Contribution. <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1800314 | 1.3 | 3 |
| 261 | Photo-Excited Surface Dynamics from Massively Parallel Constrained-DFT Calculations 2018 , 157-168 | | |
| 260 | Identifying On-Surface Site-Selective Chemical Conversions by Theory-Aided NEXAFS Spectroscopy: The Case of Free-Base Corroles on Ag(111). <i>Chemistry - A European Journal</i> , 2018 , 24, 6787-6797 | 4.8 | 7 |
| 259 | Probing quasi-one-dimensional band structures by plasmon spectroscopy. <i>Physical Review B</i> , 2018 , 97, | 3.3 | 13 |
| 258 | Structural dynamics upon photoexcitation-induced charge transfer in a dicopper(i)-disulfide complex. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 6274-6286 | 3.6 | 11 |
| 257 | Vibrational properties of the Au-(3B)/Si(111) surface reconstruction. <i>Physical Review B</i> , 2018 , 97, | 3.3 | 8 |
| 256 | Calculation of spin-spin zero-field splitting within periodic boundary conditions: Towards all-electron accuracy. <i>Physical Review B</i> , 2018 , 97, | 3.3 | 14 |
| 255 | Temperature stabilizes rough Au/Ge(001) surface reconstructions. <i>Surface Science</i> , 2018 , 667, 101-104 | 1.8 | 5 |
| 254 | Signatures of transient Wannier-Stark localization in bulk gallium arsenide. <i>Nature Communications</i> , 2018 , 9, 2890 | 17.4 | 20 |
| 253 | Plasmon spectroscopy: Robust metallicity of Au wires on Si(557) upon oxidation. <i>Physical Review Materials</i> , 2018 , 2, | 3.2 | 9 |

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| 252 | Imaging of 180° ferroelectric domain walls in uniaxial ferroelectrics by confocal Raman spectroscopy: Unraveling the contrast mechanism. <i>Physical Review Materials</i> , 2018 , 2, | 3.2 | 15 |
| 251 | Impact of finite-temperature and condensed-phase effects on theoretical X-ray absorption spectra of transition metal complexes. <i>Journal of Computational Chemistry</i> , 2018 , 40, 712 | 3.5 | 4 |
| 250 | New pyridinium based ionic dyes for the hydrogen evolution reaction. <i>Tetrahedron</i> , 2018 , 74, 142-149 | 2.4 | 16 |
| 249 | Polytypism driven zero-field splitting of silicon vacancies in 6H-SiC. <i>Physical Review B</i> , 2018 , 98, | 3.3 | 12 |
| 248 | Beyond the molecular movie: Dynamics of bands and bonds during a photoinduced phase transition. <i>Science</i> , 2018 , 362, 821-825 | 33.3 | 50 |
| 247 | Unraveling the Oxidation and Spin State of Mn-Corrole through X-ray Spectroscopy and Quantum Chemical Analysis. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 6412-6420 | 6.4 | 9 |
| 246 | Spin pairing versus spin chains at Si(553)-Au surfaces. <i>Physical Review B</i> , 2018 , 98, | 3.3 | 11 |
| 245 | Molecular Orbital Rule for Quantum Interference in Weakly Coupled Dimers: Low-Energy Giant Conductivity Switching Induced by Orbital Level Crossing. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 727-732 | 6.4 | 16 |
| 244 | On-Surface Site-Selective Cyclization of Corrole Radicals. <i>ACS Nano</i> , 2017 , 11, 3383-3391 | 16.7 | 20 |
| 243 | Tuning the conductivity along atomic chains by selective chemisorption. <i>Physical Review B</i> , 2017 , 95, | 3.3 | 19 |
| 242 | [Cu (NGuaS)] and its oxidized and reduced derivatives: Confining electrons on a torus. <i>Journal of Computational Chemistry</i> , 2017 , 38, 1752-1761 | 3.5 | 1 |
| 241 | Current density analysis of electron transport through molecular wires in open quantum systems. <i>Journal of Computational Chemistry</i> , 2017 , 38, 1685-1692 | 3.5 | 18 |
| 240 | Zn-VI quasiparticle gaps and optical spectra from many-body calculations. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 215702 | 1.8 | 4 |
| 239 | Optically excited structural transition in atomic wires on surfaces at the quantum limit. <i>Nature</i> , 2017 , 544, 207-211 | 50.4 | 77 |
| 238 | X-ray Spectroscopy of Thin Film Free-Base Corroles: A Combined Theoretical and Experimental Characterization. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 2192-2200 | 3.8 | 12 |
| 237 | Electron paramagnetic resonance calculations for hydrogenated Si surfaces. <i>Physical Review B</i> , 2017 , 95, | 3.3 | 4 |
| 236 | Consistent Atomic Geometries and Electronic Structure of Five Phases of Potassium Niobate from Density-Functional Theory. <i>Advances in Materials Science and Engineering</i> , 2017 , 2017, 1-13 | 1.5 | 11 |
| 235 | LiNbO surfaces from a microscopic perspective. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 413001 | 1.8 | 39 |

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| 234 | Efficient PAW-based bond strength analysis for understanding the In/Si(111)(8 × 8) - (4 × 4) phase transition. <i>Journal of Computational Chemistry</i> , 2017 , 38, 2276-2282 | 3.5 | 9 |
| 233 | Understanding band alignments in semiconductor heterostructures: Composition dependence and type-I/type-II transition of natural band offsets in nonpolar zinc-blende Al _x Ga _{1-x} N/Al _y Ga _{1-y} N composites. <i>Physical Review B</i> , 2017 , 95, | 3.3 | 14 |
| 232 | Solving the Bethe-Salpeter equation for the second-harmonic generation in Zn chalcogenides. <i>Physical Review B</i> , 2017 , 96, | 3.3 | 4 |
| 231 | Optical properties of titanium-doped lithium niobate from time-dependent density-functional theory. <i>Physical Review Materials</i> , 2017 , 1, | 3.2 | 6 |
| 230 | Polaron optical absorption in congruent lithium niobate from time-dependent density-functional theory. <i>Physical Review Materials</i> , 2017 , 1, | 3.2 | 7 |
| 229 | Si(775)-Au atomic chains: Geometry, optical properties, and spin order. <i>Physical Review Materials</i> , 2017 , 1, | 3.2 | 12 |
| 228 | Surface induced vibrational modes in the fluorescence spectra of PTCDA adsorbed on the KCl(100) and NaCl(100) surfaces. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 32891-32902 | 3.6 | 5 |
| 227 | Atomic size effects studied by transport in single silicide nanowires. <i>Physical Review B</i> , 2016 , 93, | 3.3 | 10 |
| 226 | Vibrational properties of LiNb _{1-x} Ta _x O ₃ mixed crystals. <i>Physical Review B</i> , 2016 , 93, | 3.3 | 15 |
| 225 | Rare-earth silicide thin films on the Si(111) surface. <i>Physical Review B</i> , 2016 , 93, | 3.3 | 25 |
| 224 | Grand canonical Peierls transition in In/Si(111). <i>Physical Review B</i> , 2016 , 93, | 3.3 | 18 |
| 223 | LiNbO ₃ electronic structure: Many-body interactions, spin-orbit coupling, and thermal effects. <i>Physical Review B</i> , 2016 , 93, | 3.3 | 33 |
| 222 | Experimental and Theoretical High-Energy-Resolution X-ray Absorption Spectroscopy: Implications for the Investigation of the Entatic State. <i>Inorganic Chemistry</i> , 2016 , 55, 11694-11706 | 5.1 | 22 |
| 221 | Vibration eigenmodes of the Au-(5 × 5)/Si(111) surface studied by Raman spectroscopy and first-principles calculations. <i>Physical Review B</i> , 2016 , 94, | 3.3 | 14 |
| 220 | A Bifunctional Electrocatalyst for Oxygen Evolution and Oxygen Reduction Reactions in Water. <i>Angewandte Chemie</i> , 2016 , 128, 2396-2401 | 3.6 | 25 |
| 219 | Temperature-Dependent Hole Mobility and Its Limit in Crystal-Phase P3HT Calculated from First Principles. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 5572-80 | 3.4 | 9 |
| 218 | Inhomogeneous and Homogeneous Line Broadening of Optical Spectra of PTCDA Molecules Adsorbed at Step Edges of Alkali Halide Surfaces. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 11926-11937 | 3.8 | 8 |
| 217 | Impurity-Mediated Early Condensation of a Charge Density Wave in an Atomic Wire Array. <i>ACS Nano</i> , 2016 , 10, 810-4 | 16.7 | 9 |

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| 216 | Manipulation resolves non-trivial structure of corrole monolayer on Ag(111). <i>Nanotechnology</i> , 2016 , 27, 025704 | 3.4 | 8 |
| 215 | Solving the Scattering Problem for the P3HT On-Chain Charge Transport 2016 , 155-170 | | |
| 214 | Submonolayer Rare Earth Silicide Thin Films on the Si(111) Surface 2016 , 163-175 | | |
| 213 | LiTaO phonon dispersion and ferroelectric transition calculated from first principles. <i>Physica Status Solidi (B): Basic Research</i> , 2016 , 253, 683-689 | 1.3 | 16 |
| 212 | Density functional theory of the CuA -like Cu ₂ S ₂ diamond core in Cu ₂ II(NGuaS) ₂ Cl ₂ . <i>Journal of Computational Chemistry</i> , 2016 , 37, 1005-18 | 3.5 | 12 |
| 211 | A Bifunctional Electrocatalyst for Oxygen Evolution and Oxygen Reduction Reactions in Water. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 2350-5 | 16.4 | 102 |
| 210 | Strain-induced quasi-one-dimensional rare-earth silicide structures on Si(111). <i>Physical Review B</i> , 2016 , 94, | 3.3 | 8 |
| 209 | Surface vibrational Raman modes of In:Si(111)(4×1) and (8×8) nanowires. <i>Physical Review B</i> , 2016 , 94, | 3.3 | 13 |
| 208 | Optical response of the Cu ₂ S ₂ diamond core in Cu ₂ II(NGuaS) ₂ Cl ₂ . <i>Journal of Computational Chemistry</i> , 2016 , 37, 2181-92 | 3.5 | 10 |
| 207 | GaN m-plane: Atomic structure, surface bands, and optical response. <i>Physical Review B</i> , 2015 , 91, | 3.3 | 39 |
| 206 | Water adsorbate influence on the Cu(110) surface optical response. <i>Surface Science</i> , 2015 , 641, 231-236 | 1.8 | 8 |
| 205 | Raman scattering efficiency in LiTaO ₃ and LiNbO ₃ crystals. <i>Physical Review B</i> , 2015 , 91, | 3.3 | 59 |
| 204 | Nanopatterning on H-Terminated Si(111) Explained as Dynamic Equilibrium of the Chemical Reaction with Methanol. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 16947-16953 | 3.8 | 8 |
| 203 | Liquid Crystal (8CB) Molecular Adsorption on Lithium Niobate Z-Cut Surfaces. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 9342-9346 | 3.8 | 10 |
| 202 | A panel of peralkylated sulfur-guanidine type bases: Novel pro-ligands for use in biomimetic coordination chemistry. <i>Inorganica Chimica Acta</i> , 2015 , 430, 225-238 | 2.7 | 5 |
| 201 | Phonon dispersion and zero-point renormalization of LiNbO ₃ from density-functional perturbation theory. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 385402 | 1.8 | 23 |
| 200 | Polaronic deformation at the Fe ²⁺ /3 ⁺ impurity site in Fe:LiNbO ₃ crystals. <i>Physical Review B</i> , 2015 , 91, | 3.3 | 31 |
| 199 | Interwire coupling for In(4×1)/Si(111) probed by surface transport. <i>Physical Review B</i> , 2015 , 92, | 3.3 | 8 |

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| 198 | Mechanism for nuclear and electron spin excitation by radio frequency current. <i>Physical Review B</i> , 2015 , 92, | 3.3 | 8 |
| 197 | The Cu ₂ O ₂ torture track for a real-life system: [Cu ₂ (btmgp) ₂ O ₂](2+) oxo and peroxo species in density functional calculations. <i>Journal of Computational Chemistry</i> , 2015 , 36, 1672-85 | 3.5 | 27 |
| 196 | Barrier-free subsurface incorporation of 3d metal atoms into Bi(111) films. <i>Physical Review B</i> , 2015 , 91, | 3.3 | 9 |
| 195 | Influence of structural defects and oxidation onto hole conductivity in P3HT. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 6481-91 | 3.4 | 10 |
| 194 | Defect complexes in congruent LiNbO ₃ and their optical signatures. <i>Physical Review B</i> , 2015 , 91, | 3.3 | 38 |
| 193 | Structure formation in diindenoperylene thin films on copper(111). <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 8776-83 | 3.6 | 9 |
| 192 | Surface Charge of Clean LiNbO ₃ Z-Cut Surfaces 2015 , 163-178 | | |
| 191 | Geometrical and optical benchmarking of copper guanidine-quinoline complexes: insights from TD-DFT and many-body perturbation theory. <i>Journal of Computational Chemistry</i> , 2014 , 35, 1-17 | 3.5 | 52 |
| 190 | Modeling LiNbO ₃ Surfaces at Ambient Conditions. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 10213-10230 | 3.8 | 12 |
| 189 | Formation of Hydroxyl Groups at Calcium-Silicate-Hydrate (C-S-H): Coexistence of CaOH and SiOH on Wollastonite(001). <i>Journal of Physical Chemistry C</i> , 2014 , 118, 8007-8013 | 3.8 | 23 |
| 188 | The atomic structure of ternary amorphous TixSi1-xO2 hybrid oxides. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 253201 | 1.8 | 7 |
| 187 | Adsorption of PTCDA on Terraces and at Steps Sites of the KCl(100) Surface. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 29911-29918 | 3.8 | 20 |
| 186 | Rashba splitting and relativistic energy shifts in In/Si(111) nanowires. <i>Physical Review B</i> , 2014 , 89, | 3.3 | 18 |
| 185 | Modeling intrinsic defects in LiNbO ₃ within the Slater-Janak transition state model. <i>Journal of Chemical Physics</i> , 2014 , 140, 234113 | 3.9 | 29 |
| 184 | Oxygen adsorbates on the Si(111)4H-In metallic atomic wire: Scanning tunneling microscopy and density-functional theory calculations. <i>Physical Review B</i> , 2014 , 90, | 3.3 | 6 |
| 183 | Unraveling the LiNbO ₃ X-cut surface by atomic force microscopy and density functional theory. <i>Physical Review B</i> , 2014 , 89, | 3.3 | 7 |
| 182 | Geometrical and optical benchmarking of copper(II) guanidine-quinoline complexes: insights from TD-DFT and many-body perturbation theory (part II). <i>Journal of Computational Chemistry</i> , 2014 , 35, 2146-61 | 3.5 | 26 |
| 181 | Intrinsic LiNbO ₃ point defects from hybrid density functional calculations. <i>Physical Review B</i> , 2014 , 89, | 3.3 | 33 |

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| 180 | Copper(110) surface in thermodynamic equilibrium with water vapor studied from first principles. <i>Surface Science</i> , 2013 , 612, 82-89 | 1.8 | 12 |
| 179 | Monolayer Doping via Phosphonic Acid Grafting on Silicon: Microscopic Insight from Infrared Spectroscopy and Density Functional Theory Calculations. <i>Advanced Functional Materials</i> , 2013 , 23, 3471-3477 | 15.6 | 54 |
| 178 | Vibrational Fingerprints of LiNbO ₃ -LiTaO ₃ Mixed Crystals. <i>Ferroelectrics</i> , 2013 , 447, 63-68 | 0.6 | 7 |
| 177 | LiNb _{1-x} Ta _x O ₃ Electronic Structure and Optical Response from First-Principles Calculations. <i>Ferroelectrics</i> , 2013 , 447, 78-85 | 0.6 | 6 |
| 176 | Transition energies and direct-indirect band gap crossing in zinc-blende Al _x Ga _{1-x} N. <i>Physical Review B</i> , 2013 , 87, | 3.3 | 36 |
| 175 | Optical response of stoichiometric and congruent lithium niobate from first-principles calculations. <i>Physical Review B</i> , 2013 , 87, | 3.3 | 31 |
| 174 | Structural variety of 5-fluoroarene-2-aminopyrimidine in comparison to 2-aminopyrimidine silver(I) coordination polymers: progress report and overview. <i>CrystEngComm</i> , 2013 , 15, 4225 | 3.3 | 12 |
| 173 | Atomic structure of interface states in silicon heterojunction solar cells. <i>Physical Review Letters</i> , 2013 , 110, 136803 | 7.4 | 26 |
| 172 | Bis- μ -oxo and μ - η^2 -peroxo dicopper complexes studied within (time-dependent) density-functional and many-body perturbation theory. <i>Journal of Computational Chemistry</i> , 2013 , 34, 1035-45 | 3.5 | 26 |
| 171 | Frigge et al. reply. <i>Physical Review Letters</i> , 2013 , 111, 149602 | 7.4 | 8 |
| 170 | Charge compensation by long-period reconstruction in strongly polar lithium niobate surfaces. <i>Physical Review B</i> , 2013 , 88, | 3.3 | 21 |
| 169 | Electronic and Optical Excitations of Aminopyrimidine Molecules from Many-Body Perturbation Theory 2013 , 17-28 | | |
| 168 | Lithium Niobate Dielectric Function and Second-Order Polarizability Tensor From Massively Parallel Ab Initio Calculations 2013 , 93-104 | | |
| 167 | Polarization Dependent Water Adsorption on the Lithium Niobate Z-Cut Surfaces 2013 , 155-166 | | |
| 166 | Polarization-dependent water adsorption on the LiNbO ₃ (0001) surface. <i>Physical Review B</i> , 2012 , 86, | 3.3 | 32 |
| 165 | Linear and nonlinear optical response of LiNbO ₃ calculated from first principles. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012 , 59, 1929-33 | 3.2 | 9 |
| 164 | Lithium niobate-tantalate mixed crystals electronic and optical properties calculated from first principles 2012 , | | 1 |
| 163 | Ferroelectric phase transition in LiNbO ₃ : Insights from molecular dynamics. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012 , 59, 1925-8 | 3.2 | 13 |

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| 162 | Substrate Induced Thermal Decomposition of Perfluoro-Pentacene Thin Films on the Coinage Metals. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 24098-24106 | 3.8 | 21 |
| 161 | pH-dependent structure and energetics of H ₂ O/MgO(100). <i>Surface Science</i> , 2012 , 606, 902-907 | 1.8 | 22 |
| 160 | Fingerprints of order and disorder in the electronic and optical properties of crystalline and amorphous TiO ₂ . <i>Physical Review B</i> , 2012 , 86, | 3.3 | 56 |
| 159 | Activation of surface hydroxyl groups by modification of H-terminated Si(111) surfaces. <i>Journal of the American Chemical Society</i> , 2012 , 134, 8869-74 | 16.4 | 59 |
| 158 | In-Si(111)(4 × 1)/(8 × 2) nanowires: Electron transport, entropy, and metal-insulator transition. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 343-359 | 1.3 | 21 |
| 157 | Adsorption of OH and H at the LiNbO ₃ (0001) surface. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012 , 9, 1361-1365 | | 14 |
| 156 | The electronic structure and optical response of rutile, anatase and brookite TiO ₂ . <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 195503 | 1.8 | 357 |
| 155 | 2-Aminopyrimidine-silver(I) based organic semiconductors: Electronic structure and optical response. <i>Physical Review B</i> , 2012 , 85, | 3.3 | 10 |
| 154 | Atomic-resolution imaging of the polar (0001) surface of LiNbO ₃ in aqueous solution by frequency modulation atomic force microscopy. <i>Physical Review B</i> , 2012 , 86, | 3.3 | 31 |
| 153 | Atomistic picture of charge density wave formation at surfaces. <i>Physical Review Letters</i> , 2012 , 109, 186101 | 7.4 | 58 |
| 152 | Identification of the nitrogen split interstitial (N-N)(N) in GaN. <i>Physical Review Letters</i> , 2012 , 109, 206402 | 7.4 | 33 |
| 151 | Polarization-dependent methanol adsorption on lithium niobate Z-cut surfaces. <i>Physical Review B</i> , 2012 , 86, | 3.3 | 19 |
| 150 | Copper Substrate Catalyzes Tetraazaperopyrene Polymerization 2012 , 47-56 | | |
| 149 | Entropy and Metal-Insulator Transition in Atomic-Scale Wires: The Case of In-Si(111)(4 × 1)/(8 × 2) 2012 , 131-139 | | |
| 148 | Vibrational properties of the LiNbO ₃ z-surfaces. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011 , 58, 1751-6 | 3.2 | 7 |
| 147 | Group-VII point defects in ZnSe. <i>Physical Review B</i> , 2011 , 84, | 3.3 | 10 |
| 146 | Imaging of the Ferroelectric Domain Structures by Confocal Raman Spectroscopy. <i>Ferroelectrics</i> , 2011 , 420, 44-48 | 0.6 | 19 |
| 145 | Photovoltaic applications of micro- and nano-crystalline silicon carbide. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1322, 51 | | 1 |

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| 144 | Preserving charge and oxidation state of Au(III) ions in an agent-functionalized nanocrystal model system. <i>ACS Nano</i> , 2011 , 5, 6480-6 | 16.7 | 22 |
| 143 | Asymmetric saddling of single porphyrin molecules on Au(111). <i>Physical Review B</i> , 2011 , 83, | 3.3 | 23 |
| 142 | Combined ab initio and classical potential simulation study on silicon carbide precipitation in silicon. <i>Physical Review B</i> , 2011 , 84, | 3.3 | 16 |
| 141 | Electrically detected electron-spin-echo envelope modulation: a highly sensitive technique for resolving complex interface structures. <i>Physical Review Letters</i> , 2011 , 106, 196101 | 7.4 | 25 |
| 140 | Band offsets in cubic GaN/AlN superlattices. <i>Physical Review B</i> , 2011 , 83, | 3.3 | 50 |
| 139 | Barium titanate ground- and excited-state properties from first-principles calculations. <i>Physical Review B</i> , 2011 , 83, | 3.3 | 65 |
| 138 | Influence of Na adsorption on the quantum conductance and metal-insulator transition of the In-Si(111)(411)B nanowire array. <i>Physical Review B</i> , 2011 , 84, | 3.3 | 16 |
| 137 | Theoretical investigation of Er-O co-doping in hexagonal GaN. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1342, 73 | | 1 |
| 136 | Localised Phonon Modes at LiNbO ₃ (0001) Surfaces. <i>Ferroelectrics</i> , 2011 , 419, 1-8 | 0.6 | 8 |
| 135 | Influence of Adatoms on the Quantum Conductance and Metal-Insulator Transition of Atomic-Scale Nanowires 2011 , 159-170 | | |
| 134 | Si(111)-In Nanowire Optical Response from Large-scale Ab Initio Calculations 2011 , 149-158 | | |
| 133 | Fine Structure of Triplet Centers in Room Temperature Irradiated 6H-SiC. <i>Materials Science Forum</i> , 2010 , 645-648, 403-406 | 0.4 | 3 |
| 132 | Entropy explains metal-insulator transition of the Si(111)-In nanowire array. <i>Physical Review Letters</i> , 2010 , 105, 126102 | 7.4 | 73 |
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