

# W Gero Schmidt

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/3696762/w-gero-schmidt-publications-by-citations.pdf>

**Version:** 2024-04-09

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.

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	Semiempirical van der Waals correction to the density functional description of solids and molecular structures. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	641
286	The electronic structure and optical response of rutile, anatase and brookite TiO <sub>2</sub> . <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 195503	1.8	357
285	Attracted by long-range electron correlation: adenine on graphite. <i>Physical Review Letters</i> , <b>2005</b> , 95, 186101	7.4	259
284	Efficient O(N <sup>2</sup> ) method to solve the Bethe-Salpeter equation. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	121
283	Coulombic amino group-metal bonding: adsorption of adenine on Cu <sub>110</sub> . <i>Physical Review Letters</i> , <b>2005</b> , 94, 236102	7.4	120
282	Optical absorption of water: coulomb effects versus hydrogen bonding. <i>Physical Review Letters</i> , <b>2005</b> , 94, 037404	7.4	114
281	Bulk excitonic effects in surface optical spectra. <i>Physical Review Letters</i> , <b>2002</b> , 88, 016402	7.4	109
280	Lithium niobate X-cut, Y-cut, and Z-cut surfaces from ab initio theory. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	103
279	A Bifunctional Electrocatalyst for Oxygen Evolution and Oxygen Reduction Reactions in Water. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 2350-5	16.4	102
278	Reflectance Anisotropy of GaAs(100): Theory and Experiment. <i>Physical Review Letters</i> , <b>1998</b> , 81, 721-724	7.4	101
277	Geometry and electronic structure of GaAs(001)(2 × 4) reconstructions. <i>Physical Review B</i> , <b>1996</b> , 54, 16742-16748	4.3	16748
276	Understanding reflectance anisotropy: Surface-state signatures and bulk-related features in the optical spectrum of InP(001)(2 × 8). <i>Physical Review B</i> , <b>2000</b> , 61, R16335-R16338	3.3	80
275	Ground- and excited-state properties of DNA base molecules from plane-wave calculations using ultrasoft pseudopotentials. <i>Journal of Computational Chemistry</i> , <b>2004</b> , 25, 112-22	3.5	79
274	Optically excited structural transition in atomic wires on surfaces at the quantum limit. <i>Nature</i> , <b>2017</b> , 544, 207-211	50.4	77
273	Do we know the band gap of lithium niobate?. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2010</b> , 7, 362-365		77
272	LiNbO <sub>3</sub> ground- and excited-state properties from first-principles calculations. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	76
271	Surface phase diagram of (2 × 8) and (4 × 8) reconstructions of GaAs(001). <i>Physical Review B</i> , <b>2000</b> , 62, 8087-8091	3.3	74

270	Entropy explains metal-insulator transition of the Si(111)-In nanowire array. <i>Physical Review Letters</i> , <b>2010</b> , 105, 126102	7.4	73
269	Barium titanate ground- and excited-state properties from first-principles calculations. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	65
268	Water adsorption on the $\alpha$ -Al <sub>2</sub> O <sub>3</sub> (0001) surface. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	64
267	Rare-earth defect pairs in GaN: LDA+U calculations. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	64
266	Second-harmonic polarizability including electron-hole attraction from band-structure theory. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	63
265	Structure of the diamond (111) surface: Single-dangling-bond versus triple-dangling-bond face. <i>Physical Review B</i> , <b>1996</b> , 53, 13725-13733	3.3	62
264	Molecular electronic excitations calculated from a solid-state approach: Methodology and numerics. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	61
263	Organic molecule adsorption on solid surfaces: chemical bonding, mutual polarisation and dispersion interaction. <i>Applied Physics A: Materials Science and Processing</i> , <b>2006</b> , 85, 387-397	2.6	61
262	Strongly bonded water monomers on the ice Ih basal plane: Density-functional calculations. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	60
261	Terrace and step contributions to the optical anisotropy of Si(001) surfaces. <i>Physical Review B</i> , <b>2001</b> , 63,	3.3	60
260	Raman scattering efficiency in LiTaO <sub>3</sub> and LiNbO <sub>3</sub> crystals. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	59
259	Activation of surface hydroxyl groups by modification of H-terminated Si(111) surfaces. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 8869-74	16.4	59
258	Atomistic picture of charge density wave formation at surfaces. <i>Physical Review Letters</i> , <b>2012</b> , 109, 186101	10.4	58
257	Atomic structure of InP(001)-(2 $\times$ 8): A dimer reconstruction. <i>Physical Review B</i> , <b>1998</b> , 57, 14596-14599	3.3	58
256	Resolving the optical spectrum of water: coordination and electrostatic effects. <i>Physical Review Letters</i> , <b>2008</b> , 100, 207403	7.4	57
255	Quasiparticle bands and optical spectra of highly ionic crystals: AlN and NaCl. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	57
254	Geometrical and electronic structure of the reconstructed diamond (100) surface. <i>Physical Review B</i> , <b>1994</b> , 50, 17697-17700	3.3	57
253	Fingerprints of order and disorder in the electronic and optical properties of crystalline and amorphous TiO <sub>2</sub> . <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	56

252	InP(001)-(2 x 1) surface: a hydrogen stabilized structure. <i>Physical Review Letters</i> , <b>2003</b> , 90, 126101	7.4	56
251	III-V(110) surface dynamics from an ab initio frozen-phonon approach. <i>Physical Review B</i> , <b>1995</b> , 52, 2001-2007	3.9	55
250	Monolayer Doping via Phosphonic Acid Grafting on Silicon: Microscopic Insight from Infrared Spectroscopy and Density Functional Theory Calculations. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 3471-3477	15.6	54
249	Hexagon versus trimer formation in in nanowires on Si(111): energetics and quantum conductance. <i>Physical Review Letters</i> , <b>2007</b> , 98, 026105	7.4	54
248	(2x1) GaP(001) surface: Atomic structure and optical anisotropy. <i>Physical Review B</i> , <b>1999</b> , 60, 2488-2494	3.3	54
247	Geometrical and optical benchmarking of copper guanidine-quinoline complexes: insights from TD-DFT and many-body perturbation theory. <i>Journal of Computational Chemistry</i> , <b>2014</b> , 35, 1-17	3.5	52
246	Energetics of Si(001) surfaces exposed to electric fields and charge injection. <i>Physical Review Letters</i> , <b>2004</b> , 93, 036101	7.4	52
245	Ga-rich limit of surface reconstructions on GaAs(001): atomic structure of the (4 x 6) phase. <i>Physical Review Letters</i> , <b>2004</b> , 93, 266101	7.4	51
244	Band offsets in cubic GaN/AlN superlattices. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	50
243	Beyond the molecular movie: Dynamics of bands and bonds during a photoinduced phase transition. <i>Science</i> , <b>2018</b> , 362, 821-825	33.3	50
242	GaP(001) and InP(001): Reflectance anisotropy and surface geometry. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>1999</b> , 17, 1691		47
241	Atomic Structure of the Sb-Stabilized GaAs(100)-(2 x 4) Surface. <i>Physical Review Letters</i> , <b>1996</b> , 77, 4402-4405	7.4	47
240	Chemisorption of antimony on GaAs(110). <i>Physical Review B</i> , <b>1994</b> , 49, 4731-4744	3.3	46
239	Structure of si(111)-in nanowires determined from the midinfrared optical response. <i>Physical Review Letters</i> , <b>2009</b> , 102, 226805	7.4	41
238	Long-range chiral recognition due to substrate locking and substrate-adsorbate charge transfer. <i>Physical Review Letters</i> , <b>2007</b> , 99, 196107	7.4	41
237	P-rich GaP(001)(2x1)/(2x1) surface: A hydrogen-adsorbate structure determined from first-principles calculations. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	40
236	GaN m-plane: Atomic structure, surface bands, and optical response. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	39
235	LiNbO surfaces from a microscopic perspective. <i>Journal of Physics Condensed Matter</i> , <b>2017</b> , 29, 413001	1.8	39

234	Defect complexes in congruent LiNbO <sub>3</sub> and their optical signatures. <i>Physical Review B</i> , <b>2015</b> , 91,	3-3	38
233	X-ray diffraction analysis of the gallium-rich surface of GaAs(001). <i>Physical Review B</i> , <b>2001</b> , 64,	3-3	37
232	Structural fingerprints in the reflectance anisotropy spectra of InP(001)(2 $\times$ 8) surfaces. <i>Physical Review B</i> , <b>1999</b> , 59, 2234-2239	3-3	37
231	Transition energies and direct-indirect band gap crossing in zinc-blende Al <sub>x</sub> Ga <sub>1-x</sub> N. <i>Physical Review B</i> , <b>2013</b> , 87,	3-3	36
230	Optical Properties of Ordered As Layers on InP(110) Surfaces. <i>Physical Review Letters</i> , <b>1996</b> , 77, 759-762	7-4	36
229	Optical anisotropy of the SiC((001))- (3 $\times$ 2) surface: evidence for the two-adlayer asymmetric-dimer model. <i>Physical Review Letters</i> , <b>2000</b> , 85, 4381-4	7-4	35
228	LiNbO <sub>3</sub> electronic structure: Many-body interactions, spin-orbit coupling, and thermal effects. <i>Physical Review B</i> , <b>2016</b> , 93,	3-3	33
227	Intrinsic LiNbO <sub>3</sub> point defects from hybrid density functional calculations. <i>Physical Review B</i> , <b>2014</b> , 89,	3-3	33
226	Identification of the nitrogen split interstitial (N-N)(N) in GaN. <i>Physical Review Letters</i> , <b>2012</b> , 109, 206402	7-4	33
225	Polarization-dependent water adsorption on the LiNbO <sub>3</sub> (0001) surface. <i>Physical Review B</i> , <b>2012</b> , 86,	3-3	32
224	Adatom-induced conductance modification of in nanowires: potential-well scattering and structural effects. <i>Physical Review Letters</i> , <b>2008</b> , 100, 106802	7-4	32
223	Polaronic deformation at the Fe <sup>2+/3+</sup> impurity site in Fe:LiNbO <sub>3</sub> crystals. <i>Physical Review B</i> , <b>2015</b> , 91,	3-3	31
222	Optical response of stoichiometric and congruent lithium niobate from first-principles calculations. <i>Physical Review B</i> , <b>2013</b> , 87,	3-3	31
221	Atomic-resolution imaging of the polar (0001 $\bar{1}$ ) surface of LiNbO <sub>3</sub> in aqueous solution by frequency modulation atomic force microscopy. <i>Physical Review B</i> , <b>2012</b> , 86,	3-3	31
220	First-principles calculations of clean Au(110) surfaces and chemisorption of atomic oxygen. <i>Physical Review B</i> , <b>2009</b> , 79,	3-3	30
219	Nanowire-induced optical anisotropy of the Si(111)-In surface. <i>Physical Review B</i> , <b>2003</b> , 68,	3-3	30
218	Chemisorption of pyrrole and polypyrrole on Si(001). <i>Physical Review B</i> , <b>2002</b> , 66,	3-3	30
217	Interplay of surface reconstruction and surface electric fields in the optical anisotropy of GaAs(001). <i>Physical Review B</i> , <b>2002</b> , 66,	3-3	30

216	Modeling intrinsic defects in LiNbO <sub>3</sub> within the Slater-Janak transition state model. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 234113	3.9	29
215	Atomic structure and optical anisotropy of III-V(001) surfaces. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>2001</b> , 19, 1756		28
214	The Cu <sub>2</sub> O <sub>2</sub> torture track for a real-life system: [Cu <sub>2</sub> (btmgp)O <sub>2</sub> ](2+) oxo and peroxo species in density functional calculations. <i>Journal of Computational Chemistry</i> , <b>2015</b> , 36, 1672-85	3.5	27
213	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> , <b>2014</b> , 35, 2146-61	3.5	26
212	Atomic structure of interface states in silicon heterojunction solar cells. <i>Physical Review Letters</i> , <b>2013</b> , 110, 136803	7.4	26
211	Bis-oxo and $\mu_2$ -peroxo dicopper complexes studied within (time-dependent) density-functional and many-body perturbation theory. <i>Journal of Computational Chemistry</i> , <b>2013</b> , 34, 1035-45	3.5	26
210	Organic modification of surface electronic properties: A first-principles study of uracil on Si(001). <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	26
209	Understanding reflectance anisotropy: Surface-state signatures and bulk-related features. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>2000</b> , 18, 2215		26
208	Rare-earth silicide thin films on the Si(111) surface. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	25
207	A Bifunctional Electrocatalyst for Oxygen Evolution and Oxygen Reduction Reactions in Water. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 2396-2401	3.6	25
206	Electrically detected electron-spin-echo envelope modulation: a highly sensitive technique for resolving complex interface structures. <i>Physical Review Letters</i> , <b>2011</b> , 106, 196101	7.4	25
205	Understanding the optical anisotropy of oxidized Si(001) surfaces. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	25
204	Femtosecond transfer dynamics of photogenerated electrons at a surface resonance of reconstructed InP(100). <i>Physical Review Letters</i> , <b>2005</b> , 94, 067601	7.4	25
203	Gallium-rich reconstructions on GaAs(001). <i>Physica Status Solidi (B): Basic Research</i> , <b>2003</b> , 240, 91-98	1.3	25
202	Uracil Adsorbed on Si(001): Structure and Energetics. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 5031-5035	3.4	25
201	Cycloaddition reaction versus dimer cleavage at the Si(001):C <sub>5</sub> H <sub>8</sub> interface. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	25
200	Phenanthrenequinone adsorbed on Si(001): geometries, electronic properties, and optical response. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 7928-33	3.4	24
199	SELF-ENERGY EFFECTS IN THE OPTICAL ANISOTROPY OF GaP(001). <i>Surface Review and Letters</i> , <b>1999</b> , 06, 1159-1165	1.1	24

198	Phonon dispersion and zero-point renormalization of LiNbO <sub>3</sub> from density-functional perturbation theory. <i>Journal of Physics Condensed Matter</i> , <b>2015</b> , 27, 385402	1.8	23
197	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> , <b>2014</b> , 118, 8007-8013	3.8	23
196	Asymmetric saddling of single porphyrin molecules on Au(111). <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	23
195	Spatial modulation of molecular adsorption energies due to indirect interaction. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	23
194	GaN and InN conduction-band states studied by ellipsometry. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	23
193	Steric effects and chirality in the adsorption of glycine and phenylglycine on Cu(110). <i>Nanotechnology</i> , <b>2007</b> , 18, 424030	3.4	23
192	The Bethe-Salpeter equation: a first-principles approach for calculating surface optical spectra. <i>Journal of Physics Condensed Matter</i> , <b>2004</b> , 16, S4313-S4322	1.8	23
191	Step-induced optical anisotropy of Si(111):H surfaces. <i>Physical Review B</i> , <b>2000</b> , 61, 7604-7608	3.3	23
190	Experimental and Theoretical High-Energy-Resolution X-ray Absorption Spectroscopy: Implications for the Investigation of the Entatic State. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 11694-11706	5.1	22
189	pH-dependent structure and energetics of H <sub>2</sub> O/MgO(100). <i>Surface Science</i> , <b>2012</b> , 606, 902-907	1.8	22
188	Preserving charge and oxidation state of Au(III) ions in an agent-functionalized nanocrystal model system. <i>ACS Nano</i> , <b>2011</b> , 5, 6480-6	16.7	22
187	Substrate Induced Thermal Decomposition of Perfluoro-Pentacene Thin Films on the Coinage Metals. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 24098-24106	3.8	21
186	In-Si(111)(4 × 4)/(8 × 8) nanowires: Electron transport, entropy, and metal-insulator transition. <i>Physica Status Solidi (B): Basic Research</i> , <b>2012</b> , 249, 343-359	1.3	21
185	Charge compensation by long-period reconstruction in strongly polar lithium niobate surfaces. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	21
184	Antimony-stabilized GaAs(001)(2 × 8) reconstructions. <i>Physical Review B</i> , <b>1997</b> , 55, 13051-13057	3.3	21
183	On-Surface Site-Selective Cyclization of Corrole Radicals. <i>ACS Nano</i> , <b>2017</b> , 11, 3383-3391	16.7	20
182	Signatures of transient Wannier-Stark localization in bulk gallium arsenide. <i>Nature Communications</i> , <b>2018</b> , 9, 2890	17.4	20
181	Adsorption of PTCDA on Terraces and at Steps Sites of the KCl(100) Surface. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 29911-29918	3.8	20



180	Methyl Chloride Adsorption on Si(001) Electronic Structure. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 7809-7813	3.4	20
179	Quasiparticle and excitonic effects in the optical spectra of diamond, SiC, Si, GaP, GaAs, InP, and AlN. <i>Physica Status Solidi (B): Basic Research</i> , <b>2005</b> , 242, 2720-2728	1.3	20
178	Optical response of $\pi$ -conjugated molecular monolayer adsorbed on the semiconductor Si(001) surface: A first-principles study. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	20
177	Tuning the conductivity along atomic chains by selective chemisorption. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	19
176	Imaging of the Ferroelectric Domain Structures by Confocal Raman Spectroscopy. <i>Ferroelectrics</i> , <b>2011</b> , 420, 44-48	0.6	19
175	Polarization-dependent methanol adsorption on lithium niobate Z-cut surfaces. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	19
174	Current density analysis of electron transport through molecular wires in open quantum systems. <i>Journal of Computational Chemistry</i> , <b>2017</b> , 38, 1685-1692	3.5	18
173	Grand canonical Peierls transition in In/Si(111). <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	18
172	Rashba splitting and relativistic energy shifts in In/Si(111) nanowires. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	18
171	Ga-rich GaAs(001) surface from ab initio calculations: Atomic structure of the (4 $\times$ 8) and (6 $\times$ 8) reconstructions. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	18
170	Calculation of reflectance anisotropy for semiconductor surface exploration. <i>Physica Status Solidi (B): Basic Research</i> , <b>2005</b> , 242, 2751-2764	1.3	18
169	Optical properties of Sb-terminated GaAs and InP (110) surfaces. <i>Physical Review B</i> , <b>1995</b> , 52, 12158-12163	3.3	17
168	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> , <b>2017</b> , 8, 727-732	6.4	16
167	Combined ab initio and classical potential simulation study on silicon carbide precipitation in silicon. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	16
166	Influence of Na adsorption on the quantum conductance and metal-insulator transition of the In-Si(111)(4 $\times$ 8) nanowire array. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	16
165	Water adsorption on clean Ni(111) and p(2 $\times$ 2)-Ni(111)-O surfaces calculated from first principles. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	16
164	Adsorption of phenylglycine on copper: Density functional calculations. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	16
163	LiTaO phonon dispersion and ferroelectric transition calculated from first principles. <i>Physica Status Solidi (B): Basic Research</i> , <b>2016</b> , 253, 683-689	1.3	16



162	New pyridinium based ionic dyes for the hydrogen evolution reaction. <i>Tetrahedron</i> , <b>2018</b> , 74, 142-149	2.4	16
161	Vibrational properties of LiNbO <sub>3</sub> /TaO <sub>3</sub> mixed crystals. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	15
160	Layer-by-layer analysis of surface reflectance anisotropy in semiconductors. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	15
159	Imaging of 180° ferroelectric domain walls in uniaxial ferroelectrics by confocal Raman spectroscopy: Unraveling the contrast mechanism. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	15
158	Calculation of spin-spin zero-field splitting within periodic boundary conditions: Towards all-electron accuracy. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	14
157	Vibration eigenmodes of the Au(500)/Si(111) surface studied by Raman spectroscopy and first-principles calculations. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	14
156	Understanding band alignments in semiconductor heterostructures: Composition dependence and type-I/type-II transition of natural band offsets in nonpolar zinc-blende Al <sub>x</sub> Ga <sub>1-x</sub> N/Al <sub>y</sub> Ga <sub>1-y</sub> N composites. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	14
155	Adsorption of OH and H at the LiNbO <sub>3</sub> (0001) surface. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2012</b> , 9, 1361-1365		14
154	Probing quasi-one-dimensional band structures by plasmon spectroscopy. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	13
153	Ferroelectric phase transition in LiNbO <sub>3</sub> : Insights from molecular dynamics. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2012</b> , 59, 1925-8	3.2	13
152	Catalytic Action of a Cu(111) Surface on Tetraazaperopyrene Polymerization. <i>Journal of Physical Chemistry Letters</i> , <b>2010</b> , 1, 3266-3270	6.4	13
151	Chainlike Au <sub>20</sub> Structures on Au(110)-(1 × 1) Surfaces Calculated from First Principles. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 5690-5699	3.8	13
150	Ethanol adsorbed on ice: A first-principles study. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	13
149	Surface Ordering of P-rich InP(001): Hydrogen Stabilization vs Electron Correlation. <i>Surface Review and Letters</i> , <b>2003</b> , 10, 163-167	1.1	13
148	Surface vibrational Raman modes of In:Si(111)(4 × 1) and (8 × 8) nanowires. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	13
147	X-ray Spectroscopy of Thin Film Free-Base Corroles: A Combined Theoretical and Experimental Characterization. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 2192-2200	3.8	12
146	Modeling LiNbO <sub>3</sub> Surfaces at Ambient Conditions. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 10213-10223	3.8	12
145	Copper(110) surface in thermodynamic equilibrium with water vapor studied from first principles. <i>Surface Science</i> , <b>2013</b> , 612, 82-89	1.8	12

144	Structural variety of 5-fluoroarene-2-aminopyrimidine in comparison to 2-aminopyrimidine silver(I) coordination polymers: progress report and overview. <i>CrystEngComm</i> , <b>2013</b> , 15, 4225	3.3	12
143	Role of Dihydrogen Bonds for the Stabilization of Self-Assembled Molecular Nanostructures. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 12653-12657	3.8	12
142	Ab initio investigation of the LiNbO <sub>3</sub> (0001) surface. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2010</b> , 7, 145-148		12
141	Energetics and Structure of Ordered Sb Overlayers and Sb Clusters on GaAs(110) Probed by ab initio Calculations. <i>Europhysics Letters</i> , <b>1994</b> , 25, 357-362	1.6	12
140	Si(775)-Au atomic chains: Geometry, optical properties, and spin order. <i>Physical Review Materials</i> , <b>2017</b> , 1,	3.2	12
139	Controlled growth of ordered monolayers of N-heterocyclic carbenes on silicon. <i>Nature Chemistry</i> , <b>2021</b> , 13, 828-835	17.6	12
138	Density functional theory of the CuA -like Cu <sub>2</sub> S <sub>2</sub> diamond core in Cu <sub>2</sub> (NGuaS) <sub>2</sub> Cl <sub>2</sub> . <i>Journal of Computational Chemistry</i> , <b>2016</b> , 37, 1005-18	3.5	12
137	Polytypism driven zero-field splitting of silicon vacancies in 6H-SiC. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	12
136	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> , <b>2019</b> , 99,	3.3	11
135	Consistent Atomic Geometries and Electronic Structure of Five Phases of Potassium Niobate from Density-Functional Theory. <i>Advances in Materials Science and Engineering</i> , <b>2017</b> , 2017, 1-13	1.5	11
134	Structural dynamics upon photoexcitation-induced charge transfer in a dicopper(I)-disulfide complex. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 6274-6286	3.6	11
133	Chemical reactivity on surfaces: Modeling the imide synthesis from DATP and PTCDA on Au(111). <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	11
132	Structure, energetics, and vibrational spectra of perylene adsorbed on Si(001): First-principles calculations compared with STM and HREELS. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	11
131	Clean and pyrrole-functionalized Si- and C-terminated SiC surfaces: First-principles calculations of geometry and energetics compared with LEED and XPS. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	11
130	Initial stage of Si(001) surface oxidation from first-principles calculations. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 17649-53	3.4	11
129	Oxidation- and organic-molecule-induced changes of the Si surface optical anisotropy:ab initio predictions. <i>Journal of Physics Condensed Matter</i> , <b>2004</b> , 16, S4323-S4334	1.8	11
128	Quasi-particle band structure of C(111)2 × 1 and C(100)2 × 1 surfaces. <i>Surface Science</i> , <b>1995</b> , 331-333, 1152-1156	1.8	11
127	Water Splitting Reaction at Polar Lithium Niobate Surfaces. <i>ACS Omega</i> , <b>2019</b> , 4, 3850-3859	3.9	11

126	Spin pairing versus spin chains at Si(553)-Au surfaces. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	11
125	Liquid Crystal (8CB) Molecular Adsorption on Lithium Niobate Z-Cut Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 9342-9346	3.8	10
124	Atomic size effects studied by transport in single silicide nanowires. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	10
123	Influence of structural defects and oxidation onto hole conductivity in P3HT. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 6481-91	3.4	10
122	2-Aminopyrimidine-silver(I) based organic semiconductors: Electronic structure and optical response. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	10
121	Group-VII point defects in ZnSe. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	10
120	VUV-ellipsometry on GaN: Probing conduction band properties by core level excitations. <i>Physica Status Solidi (B): Basic Research</i> , <b>2005</b> , 242, 2601-2609	1.3	10
119	Hydrogen interaction with Sb-terminated GaAs and InP (110) surfaces. <i>Physical Review B</i> , <b>1995</b> , 52, 17379-17385	3.3	10
118	Adatoms and vacancies on the diamond(111) surface. <i>Europhysics Letters</i> , <b>1996</b> , 35, 585-590	1.6	10
117	Optical response of the Cu <sub>2</sub> S <sub>2</sub> diamond core in Cu <sub>2</sub> II(NGuaS) <sub>2</sub> Cl <sub>2</sub> . <i>Journal of Computational Chemistry</i> , <b>2016</b> , 37, 2181-92	3.5	10
116	Temperature-Dependent Hole Mobility and Its Limit in Crystal-Phase P3HT Calculated from First Principles. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 5572-80	3.4	9
115	Impurity-Mediated Early Condensation of a Charge Density Wave in an Atomic Wire Array. <i>ACS Nano</i> , <b>2016</b> , 10, 810-4	16.7	9
114	Efficient PAW-based bond strength analysis for understanding the In/Si(111)(8 × 8) - (4 × 4) phase transition. <i>Journal of Computational Chemistry</i> , <b>2017</b> , 38, 2276-2282	3.5	9
113	Barrier-free subsurface incorporation of 3d metal atoms into Bi(111) films. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	9
112	Structure Formation in diindenoperylene thin films on copper(111). <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 8776-83	3.6	9
111	Linear and nonlinear optical response of LiNbO <sub>3</sub> calculated from first principles. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2012</b> , 59, 1929-33	3.2	9
110	Glutamic acid adsorbed on Ag(110): direct and indirect molecular interactions. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 185001	1.8	9
109	Optical anisotropy of the In/Si(111)(4 × 4)/(8 × 8) nanowire array. <i>Surface Science</i> , <b>2009</b> , 603, 247-250	1.8	9

108	As on InP(110) studied within density-functional theory. <i>Physical Review B</i> , <b>1997</b> , 56, 6719-6726	3.3	9
107	Plasmon spectroscopy: Robust metallicity of Au wires on Si(557) upon oxidation. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	9
106	Unraveling the Oxidation and Spin State of Mn-Corrole through X-ray Spectroscopy and Quantum Chemical Analysis. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 6412-6420	6.4	9
105	Water adsorbate influence on the Cu(110) surface optical response. <i>Surface Science</i> , <b>2015</b> , 641, 231-236	1.8	8
104	Nanopatterning on H-Terminated Si(111) Explained as Dynamic Equilibrium of the Chemical Reaction with Methanol. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 16947-16953	3.8	8
103	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> , <b>2020</b> , 124, 6090-6102	3.8	8
102	Vibrational properties of the Au-(3 $\sqrt{3}$ )/Si(111) surface reconstruction. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	8
101	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> , <b>2016</b> , 120, 11926-11937	3.8	8
100	Manipulation resolves non-trivial structure of corrole monolayer on Ag(111). <i>Nanotechnology</i> , <b>2016</b> , 27, 025704	3.4	8
99	Interwire coupling for In(4 $\sqrt{3}$ )/Si(111) probed by surface transport. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	8
98	Mechanism for nuclear and electron spin excitation by radio frequency current. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	8
97	Frigge et al. reply. <i>Physical Review Letters</i> , <b>2013</b> , 111, 149602	7.4	8
96	Localised Phonon Modes at LiNbO <sub>3</sub> (0001) Surfaces. <i>Ferroelectrics</i> , <b>2011</b> , 419, 1-8	0.6	8
95	Theoretical Aspects of the Optical Response of Semiconductor Surfaces. <i>Physica Status Solidi A</i> , <b>1999</b> , 175, 5-16		8
94	Se/GaAs(110): Atomic and electronic structure. <i>Physical Review B</i> , <b>1994</b> , 50, 17280-17291	3.3	8
93	Strain-induced quasi-one-dimensional rare-earth silicide structures on Si(111). <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	8
92	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> , <b>2018</b> , 24, 6787-6797	4.8	7
91	The atomic structure of ternary amorphous Ti <sub>x</sub> Si <sub>1-x</sub> O <sub>2</sub> hybrid oxides. <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 253201	1.8	7

90	Vibrational Fingerprints of LiNbO <sub>3</sub> -LiTaO <sub>3</sub> Mixed Crystals. <i>Ferroelectrics</i> , <b>2013</b> , 447, 63-68	0.6	7
89	Unraveling the LiNbO <sub>3</sub> X-cut surface by atomic force microscopy and density functional theory. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	7
88	Vibrational properties of the LiNbO <sub>3</sub> z-surfaces. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2011</b> , 58, 1751-6	3.2	7
87	Adsorption structure of cyclopentene on InP(001)(2 $\times$ 8). <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	7
86	GaN/LiNbO <sub>3</sub> (0 0 0 1) interface formation calculated from first-principles. <i>Applied Surface Science</i> , <b>2010</b> , 256, 5740-5743	6.7	7
85	Influence of the Side Group Aromaticity on the Organic Molecule Adsorption on Cu(110). <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 11490-11494	3.8	7
84	Theoretical study of the localization of excess electrons at the surface of ice. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 225003	1.8	7
83	Se/GaAs(110): energetics and structure. <i>Surface Science</i> , <b>1995</b> , 331-333, 557-563	1.8	7
82	Polaron optical absorption in congruent lithium niobate from time-dependent density-functional theory. <i>Physical Review Materials</i> , <b>2017</b> , 1,	3.2	7
81	Quasiparticle and excitonic effects in the optical response of KNbO <sub>3</sub> . <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	7
80	Photocatalytic properties of graphene-supported titania clusters from density-functional theory. <i>Journal of Computational Chemistry</i> , <b>2020</b> , 41, 1921-1930	3.5	6
79	Vibration-Driven Self-Doping of Dangling-Bond Wires on Si(553)-Au Surfaces. <i>Physical Review Letters</i> , <b>2020</b> , 124, 146802	7.4	6
78	LiNb <sub>1-x</sub> Ta <sub>x</sub> O <sub>3</sub> Electronic Structure and Optical Response from First-Principles Calculations. <i>Ferroelectrics</i> , <b>2013</b> , 447, 78-85	0.6	6
77	Oxygen adsorbates on the Si(111)4 $\times$ 1-In metallic atomic wire: Scanning tunneling microscopy and density-functional theory calculations. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	6
76	Defects in carbon implanted silicon calculated by classical potentials and first-principles methods. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	6
75	Chemisorption of aluminium on GaAs(110). <i>Journal of Physics Condensed Matter</i> , <b>1993</b> , 5, 9025-9036	1.8	6
74	Optical properties of titanium-doped lithium niobate from time-dependent density-functional theory. <i>Physical Review Materials</i> , <b>2017</b> , 1,	3.2	6
73	A panel of peralkylated sulfur-guanidine type bases: Novel pro-ligands for use in biomimetic coordination chemistry. <i>Inorganica Chimica Acta</i> , <b>2015</b> , 430, 225-238	2.7	5

72	Temperature stabilizes rough Au/Ge(001) surface reconstructions. <i>Surface Science</i> , <b>2018</b> , 667, 101-104	1.8	5
71	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> , <b>2016</b> , 18, 32891-32902	3.6	5
70	Manganese-hydrogen complexes in Ga <sub>1-x</sub> Mn <sub>x</sub> N. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	5
69	Magnetic characterization of conductance electrons in GaN. <i>Physica Status Solidi (B): Basic Research</i> , <b>2010</b> , 247, 1728-1731	1.3	5
68	Adsorption of water on chlorine-terminated Si(111) from first principles: Substrate-induced ordering versus intermolecular interactions. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	5
67	Dynamics of the phonon-induced electron transfer between semiconductor bulk and surface states. <i>Physica Status Solidi (B): Basic Research</i> , <b>2004</b> , 241, R60-R62	1.3	5
66	Exchange reactions versus adsorption geometries for Se/GaAs(110). <i>Physical Review B</i> , <b>1994</b> , 50, 17651-17654	3.5	5
65	Coverage-dependent bonding of Sb on GaAs (110). <i>Surface Science</i> , <b>1994</b> , 307-309, 235-240	1.8	5
64	Ab initio calculation of the atomic and electronic structure for Sb adsorbed on GaAs(110). <i>European Physical Journal D</i> , <b>1993</b> , 43, 1003-1007		5
63	Free and defect-bound (bi)polarons in LiNbO <sub>3</sub> : Atomic structure and spectroscopic signatures from ab initio calculations. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	5
62	Zn-VI quasiparticle gaps and optical spectra from many-body calculations. <i>Journal of Physics Condensed Matter</i> , <b>2017</b> , 29, 215702	1.8	4
61	Electron paramagnetic resonance calculations for hydrogenated Si surfaces. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	4
60	Solving the Bethe-Salpeter equation for the second-harmonic generation in Zn chalcogenides. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	4
59	The anisotropic electron - positron momentum distribution in diamond. <i>Journal of Physics Condensed Matter</i> , <b>1997</b> , 9, 6323-6333	1.8	4
58	Ab initio calculation of linear and nonlinear optical properties of semiconductor structures. <i>Brazilian Journal of Physics</i> , <b>1999</b> , 29, 643	1.2	4
57	Tetracene Ultrathin Film Growth on Hydrogen-Passivated Silicon. <i>Langmuir</i> , <b>2020</b> , 36, 9099-9113	4	4
56	Impact of finite-temperature and condensed-phase effects on theoretical X-ray absorption spectra of transition metal complexes. <i>Journal of Computational Chemistry</i> , <b>2018</b> , 40, 712	3.5	4
55	Spin Polarization, Electron-Phonon Coupling, and Zero-Phonon Line of the NV Center in 3-SiC. <i>Nano Letters</i> , <b>2021</b> , 21, 8119-8125	11.5	4



54	Electronic structure of the Si(111)3 $\times$ 3R30 $^\circ$ B surface from theory and photoemission spectroscopy. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	4
53	A photoredox catalysed Heck reaction hole transfer from a Ru(ii)-bis(terpyridine) complex to graphene oxide.. <i>RSC Advances</i> , <b>2020</b> , 10, 42930-42937	3.7	3
52	Fine Structure of Triplet Centers in Room Temperature Irradiated 6H-SiC. <i>Materials Science Forum</i> , <b>2010</b> , 645-648, 403-406	0.4	3
51	Spin-Coupling in Heavily Nitrogen-Doped 4H-SiC. <i>Materials Science Forum</i> , <b>2009</b> , 615-617, 343-346	0.4	3
50	GaN growth on LiNbO <sub>3</sub> (0001) by first-principles simulation. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2010</b> , 7, 2272-2274		3
49	Experimental and theoretical evidence for a hydrogen stabilized c(2 $\times$ ) reconstruction of the P-rich InP(001) surface. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	3
48	Se-induced 3d core-level shifts of GaAs(110). <i>Applied Surface Science</i> , <b>1996</b> , 104-105, 141-146	6.7	3
47	Spin decontamination for magnetic dipolar coupling calculations: Application to high-spin molecules and solid-state spin qubits. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	3
46	Electric Field Induced Raman Scattering at the SbInP(110) Interface: The Surface Dipole Contribution. <i>Physica Status Solidi (B): Basic Research</i> , <b>2019</b> , 256, 1800314	1.3	3
45	InP and AlInP(001)(2 $\times$ 4) Surface Oxidation from Density Functional Theory. <i>ACS Omega</i> , <b>2021</b> , 6, 6297-6304	3.4	3
44	Photochemical Ring Opening of Oxirane Modeled by Constrained Density Functional Theory. <i>ACS Omega</i> , <b>2020</b> , 5, 24057-24063	3.9	2
43	Oxygen and potassium vacancies in KTP calculated from first principles. <i>Journal of Physics Condensed Matter</i> , <b>2019</b> , 31, 385401	1.8	2
42	Potassium titanyl phosphate (KTP) quasiparticle energies and optical response. <i>JPhys Materials</i> , <b>2019</b> , 2, 045003	4.2	2
41	First-principles study of water adsorption and a high-density interfacial ice structure on (1 $\bar{1}$ )-O/Rh(111). <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	2
40	Atomic structure and energetics of the c-GaN(001) surface. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	2
39	Electron Polarons in Lithium Niobate: Charge Localization, Lattice Deformation, and Optical Response. <i>Crystals</i> , <b>2021</b> , 11, 542	2.3	2
38	Band Alignment at Ga <sub>x</sub> In <sub>1-x</sub> P/Al <sub>y</sub> In <sub>1-y</sub> P Alloy Interfaces from Hybrid Density Functional Theory Calculations. <i>Physica Status Solidi (B): Basic Research</i> , <b>2021</b> , 258, 2000463	1.3	2
37	Adatom mediated adsorption of N-heterocyclic carbenes on Cu(111) and Au(111).. <i>Journal of Computational Chemistry</i> , <b>2021</b> ,	3.5	2



36	[Cu (NGuaS) ] and its oxidized and reduced derivatives: Confining electrons on a torus. <i>Journal of Computational Chemistry</i> , <b>2017</b> , 38, 1752-1761	3.5	1
35	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> , <b>2020</b> , 22, 8513-8521	3.6	1
34	Lithium niobate-tantalate mixed crystals electronic and optical properties calculated from first principles <b>2012</b> ,		1
33	Photovoltaic applications of micro- and nano-crystalline silicon carbide. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1322, 51		1
32	Theoretical investigation of Er-O co-doping in hexagonal GaN. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1342, 73		1
31	Pyrrole (C <sub>4</sub> H <sub>4</sub> NH) and Polypyrrole Functionalized Silicon Surfaces Calculated from First Principles. <i>Surface Review and Letters</i> , <b>2003</b> , 10, 221-226	1.1	1
30	Reconstructions of the As-Terminated GaAs(001) Surface Exposed to Atomic Hydrogen.. <i>ACS Omega</i> , <b>2022</b> , 7, 5064-5068	3.9	1
29	GaInP/AlInP(001) Interfaces from Density Functional Theory. <i>Physica Status Solidi (B): Basic Research</i> , <b>2004</b> , 210, 462	10.4	1
28	Gas-Phase Epitaxy Grown InP(001) Surfaces From Real-Space Finite-Difference Calculations <b>2003</b> , 155-166		1
27	Vibrational Raman spectroscopy on adsorbate-induced low-dimensional surface structures. <i>Surface Science Reports</i> , <b>2020</b> , 75, 100480	12.9	0
26	Subcycle Wannier-Stark Localization by Mid-Infrared Bias in Gallium Arsenide. <i>EPJ Web of Conferences</i> , <b>2019</b> , 205, 05001	0.3	
25	Accurate and Efficient Spin-Spin Zero-Field Splitting Calculations for Extended Periodic Systems <b>2019</b> , 131-140		
24	Photo-Excited Surface Dynamics from Massively Parallel Constrained-DFT Calculations <b>2018</b> , 157-168		
23	Solving the Scattering Problem for the P3HT On-Chain Charge Transport <b>2016</b> , 155-170		
22	Anomalous Water Optical Absorption: Large-Scale First-Principles Simulations <b>2007</b> , 49-58		
21	Many-body and overlayer effects on surface optical properties. <i>Physica Status Solidi (B): Basic Research</i> , <b>2003</b> , 240, 469-479	1.3	
20	Methylchloride Adsorption on Si(001) [Electronic Properties <b>2005</b> , 115-127		
19	DNA Base Properties from First Principles Plane-Wave Calculations <b>2005</b> , 349-361		

- 18 Large-Scale Simulations for Understanding Surface Optical Spectra **2006**, 73-84
- 17 Long-Range Chiral Recognition Due to Substrate Locking and Substrate-Adsorbate Charge Transfer **2009**, 641-648
- 16 Understanding Molecular Recognition and Self-Assembly from Large-Scale Numerical Simulations **2009**, 129-137
- 15 Terrace and step contributions to the surface optical anisotropy of Si(001). *Springer Proceedings in Physics*, **2001**, 299-300 O.2
- 14 (2 × 4) and (4 × 2) reconstructions of GaAs (001): The surface phase diagram re-examined. *Springer Proceedings in Physics*, **2001**, 279-280 O.2
- 13 GaAs and InAs (001) Surface Structures from Large-scale Real-space Multigrid Calculations **2002**, 178-188
- 12 Excitonic and Local-Field Effects in Optical Spectra from Real-Space Time-Domain Calculations **2003**, 133-148
- 11 Surface Charge of Clean LiNbO<sub>3</sub> Z-Cut Surfaces **2015**, 163-178
- 10 Submonolayer Rare Earth Silicide Thin Films on the Si(111) Surface **2016**, 163-175
- 9 Understanding Electron Transport in Atomic Nanowires from Large-Scale Numerical Calculations **2010**, 233-242
- 8 Understanding Long-range Indirect Interactions Between Surface Adsorbed Molecules **2010**, 75-84
- 7 Influence of Adatoms on the Quantum Conductance and Metal-Insulator Transition of Atomic-Scale Nanowires **2011**, 159-170
- 6 Si(111)-In Nanowire Optical Response from Large-scale Ab Initio Calculations **2011**, 149-158
- 5 Copper Substrate Catalyzes Tetraazaperopyrene Polymerization **2012**, 47-56
- 4 Entropy and Metal-Insulator Transition in Atomic-Scale Wires: The Case of In-Si(111)(4 × 4)/(8 × 8) **2012**, 131-139
- 3 Electronic and Optical Excitations of Aminopyrimidine Molecules from Many-Body Perturbation Theory **2013**, 17-28
- 2 Lithium Niobate Dielectric Function and Second-Order Polarizability Tensor From Massively Parallel Ab Initio Calculations **2013**, 93-104
- 1 Polarization Dependent Water Adsorption on the Lithium Niobate Z-Cut Surfaces **2013**, 155-166

