Friedhelm Bechstedt

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.

594	25,972	82	135
papers	citations	h-index	g-index
606	27,986 ext. citations	3.2	7.12
ext. papers		avg, IF	L-index

#	Paper	IF	Citations
594	Optical properties of Xenes 2022 , 319-352		
593	From pseudo-direct hexagonal germanium to direct silicon-germanium alloys. <i>Physical Review Materials</i> , 2021 , 5,	3.2	2
592	Optical Signatures of Dirac Electrodynamics for hBN-Passivated Silicene on Au(111). <i>Nano Letters</i> , 2021 , 21, 5301-5307	11.5	3
591	Efficient strain-induced light emission in lonsdaleite germanium. <i>Physical Review Materials</i> , 2021 , 5,	3.2	5
590	Beyond graphene: Clean, hydrogenated and halogenated silicene, germanene, stanene, and plumbene. <i>Progress in Surface Science</i> , 2021 , 96, 100615	6.6	5
589	Electronic and Optical Properties of Small Metal Fluoride Clusters. <i>ACS Omega</i> , 2020 , 5, 13268-13277	3.9	2
588	Giant excitonic absorption and emission in two-dimensional group-III nitrides. <i>Scientific Reports</i> , 2020 , 10, 10719	4.9	11
587	Direct-bandgap emission from hexagonal Ge and SiGe alloys. <i>Nature</i> , 2020 , 580, 205-209	50.4	124
586	Starke Lichtemission in hexagonalen Ge- und SiGe-Halbleitern. <i>Physik in Unserer Zeit</i> , 2020 , 51, 216-217	0.1	
585	Influence of anisotropy, tilt and pairing of Weyl nodes: the Weyl semimetals TaAs, TaP, NbAs and NbP. <i>European Physical Journal B</i> , 2020 , 93, 1	1.2	1
584	Charge qubit in van der Waals heterostructures. <i>Physical Review B</i> , 2019 , 100,	3.3	10
583	Out-of-plane excitons in two-dimensional crystals. <i>Physical Review B</i> , 2019 , 99,	3.3	17
582	Influence of screening dynamics on excitons in Ga2O3 polymorphs. <i>Applied Physics Letters</i> , 2019 , 114, 122101	3.4	12
581	Organic Molecule Adsorption on Stepped SiAu Surfaces: Role of Functional Group on Geometry and Electronic Structure. <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1800653	1.3	
580	Forbidden Band-Edge Excitons of Wurtzite-GaP: A Theoretical View. <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1800238	1.3	10
579	Accurate electronic and optical properties of hexagonal germanium for optoelectronic applications. <i>Physical Review Materials</i> , 2019 , 3,	3.2	19
578	Lattice vibrations and electronic properties of GaSe nanosheets from first principles. <i>Physical Review Materials</i> , 2019 , 3,	3.2	1

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577	Quantization of spin Hall conductivity in two-dimensional topological insulators versus symmetry and spin-orbit interaction. <i>Physical Review B</i> , 2019 , 100,	3.3	9
576	Honeycomb silicon on alumina: Massless Dirac fermions in silicene on substrate. <i>Physical Review B</i> , 2019 , 100,	3.3	7
575	Trends on band alignments: Validity of Anderson's rule in SnS2- and SnSe2-based van der Waals heterostructures. <i>Physical Review B</i> , 2018 , 97,	3.3	40
574	Selective adsorption of toluene-3,4-dithiol on Si(553)-Au surfaces. <i>Physical Review B</i> , 2018 , 97,	3.3	6
573	Efficient Green Emission from Wurtzite Al InP Nanowires. <i>Nano Letters</i> , 2018 , 18, 3543-3549	11.5	14
572	Validity of Weyl fermion picture for transition metals monopnictides TaAs, TaP, NbAs, and NbP from ab initio studies. <i>Scientific Reports</i> , 2018 , 8, 3534	4.9	23
571	Electronic excitations stabilized by a degenerate electron gas in semiconductors. <i>Communications Physics</i> , 2018 , 1,	5.4	5
57°	Optical properties of silicene, Si/Ag(111), and Si/Ag(110). <i>Physical Review B</i> , 2018 , 97,	3.3	21
569	Correlation beyond the random phase approximation: A consistent many-body perturbation theory approach. <i>Physical Review B</i> , 2018 , 97,	3.3	3
568	Optical Properties of Silicene and Related Materials from First Principles. <i>Nanoscience and Technology</i> , 2018 , 73-98	0.6	3
567	Strong in- and out-of-plane excitons in two-dimensional InN nanosheets. <i>Physical Review B</i> , 2018 , 98,	3.3	21
566	Ab initio optical and energy loss spectra of transition metal monopnictides TaAs, TaP, NbAs, and NbP. <i>Journal of Applied Physics</i> , 2018 , 124, 205110	2.5	5
565	Vibrational properties of GaSe: a layer dependent study from experiments to theory. Semiconductor Science and Technology, 2018 , 33, 125008	1.8	6
564	Spontaneous symmetry breaking and electronic and dielectric properties in commensurate La7/4Sr1/4CuO4 and La5/3Sr1/3NiO4. <i>Physical Review B</i> , 2018 , 97,	3.3	3
563	Tunable electronic properties of two-dimensional nitrides for light harvesting heterostructures. <i>Applied Physics Letters</i> , 2017 , 110, 012103	3.4	44
562	Tuning Electronic Properties and Band Alignments of Phosphorene Combined With MoSe2 and WSe2. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 3862-3869	3.8	42
561	Fast and accurate approximate quasiparticle band structure calculations of ZnO, CdO, and MgO polymorphs. <i>Physical Review B</i> , 2017 , 95,	3.3	18
560	Electronic and optical properties of topological semimetal CdAs. <i>Scientific Reports</i> , 2017 , 7, 45500	4.9	27

559	Optical absorbance and band-gap engineering of (BN)1 \mathbb{I} (C2)x two-dimensional alloys: Phase separation and composition fluctuation effects. <i>Physical Review B</i> , 2017 , 95,	3.3	19
558	Deposition of topological silicene, germanene and stanene on graphene-covered SiC substrates. <i>Scientific Reports</i> , 2017 , 7, 15700	4.9	27
557	Chemically Tunable Properties of Graphene Covered Simultaneously with Hydroxyl and Epoxy Groups. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 27603-27611	3.8	4
556	Critical Temperature for the Conversion from Wurtzite to Zincblende of the Optical Emission of InAs Nanowires. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 16650-16656	3.8	O
555	Thermodynamic, electronic, and optical properties of graphene oxide: A statistical ab initio approach. <i>Physical Review B</i> , 2017 , 95,	3.3	14
554	Coincidence Lattices and Interlayer Twist in van der Waals Heterostructures: Application of the Coincidence Lattice Method on (hbox {hBN/MoSe}_2) Heterobilayer Systems. <i>Journal of Electronic Materials</i> , 2017 , 46, 3910-3916	1.9	7
553	Ferroelectric phase transition in multiferroic Ge Mn Te driven by local lattice distortions. <i>Physical Review B</i> , 2016 , 94,	3.3	11
552	Intrinsic spin Hall conductivity in one-, two-, and three-dimensional trivial and topological systems. <i>Physical Review B</i> , 2016 , 94,	3.3	13
551	Quantum spin Hall effect in B n/CdTe(001) quantum-well structures. <i>Physical Review B</i> , 2016 , 93,	3.3	5
550	Quasiparticle bands and spectra of Ga2O3 polymorphs. <i>Physical Review B</i> , 2016 , 93,	3.3	117
549	Atomic configurations of Au-induced nanowires on Ge(001) stabilized by higher Au coverages. <i>Physical Review B</i> , 2016 , 93,	3.3	7
548	Quantization and topological states in the spin Hall conductivity of low-dimensional systems: An ab initio study. <i>Physical Review B</i> , 2016 , 93,	3.3	8
547	Influence of out-of-plane response on optical properties of two-dimensional materials: First principles approach. <i>Physical Review B</i> , 2016 , 94,	3.3	48
546	Half-Heusler compounds with a 1 eV (1.7 eV) direct band gap, lattice-matched to GaAs (Si), for solar cell application: A first-principles study. <i>Physica Status Solidi (B): Basic Research</i> , 2016 , 253, 889-894	1.3	9
545	Pseudodirect to Direct Compositional Crossover in Wurtzite GaP/InGaP Core-Shell Nanowires. <i>Nano Letters</i> , 2016 , 16, 7930-7936	11.5	17
544	Optical study of the band structure of wurtzite GaP nanowires. <i>Journal of Applied Physics</i> , 2016 , 120, 044304	2.5	28
543	Hund's Rule-Driven Dzyaloshinskii-Moriya Interaction at 3d-5d Interfaces. <i>Physical Review Letters</i> , 2016 , 117, 247202	7.4	105
542	Quantum spin Hall phase in stanene-derived overlayers on passivated SiC substrates. <i>Physical Review B</i> , 2016 , 94,	3.3	14

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541	Coverage-dependent geometries of nanowires on Ge(0 0 1)-Au surfaces: modification of trenches. Journal of Physics Condensed Matter, 2016 , 28, 284005	1.8	3
540	Influence of the composition fluctuations and decomposition on the tunable direct gap and oscillator strength of Ge1-xSnx alloys. <i>Applied Physics Letters</i> , 2016 , 108, 092101	3.4	17
539	Flexible 2D Crystals of Polycyclic Aromatics Stabilized by Static Distortion Waves. <i>ACS Nano</i> , 2016 , 10, 6474-83	16.7	17
538	Coincidence Lattices of 2D Crystals: Heterostructure Predictions and Applications. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 10895-10908	3.8	51
537	Optical Properties of Strained Wurtzite Gallium Phosphide Nanowires. <i>Nano Letters</i> , 2016 , 16, 3703-9	11.5	34
536	Dipole analysis of the dielectric function of color dispersive materials: Application to monoclinic Ga2O3. <i>Physical Review B</i> , 2016 , 94,	3.3	44
535	Stability and electronic structure of two-dimensional allotropes of group-IV materials. <i>Physical Review B</i> , 2015 , 92,	3.3	98
534	Model GW Studies. Springer Series in Solid-state Sciences, 2015 , 327-350	0.4	
533	Energies and Forces. Springer Series in Solid-state Sciences, 2015, 129-161	0.4	
532	Metal-to-Insulator Transition in Au Chains on Si(111)-52-Au by Band Filling: Infrared Plasmonic Signal and Ab Initio Band Structure Calculation. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 3615-20	6.4	12
531	Many-Body Approach to Electronic Excitations. Springer Series in Solid-state Sciences, 2015,	0.4	79
530	Excitons in two-dimensional sheets with honeycomb symmetry. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 72-77	1.3	18
529	Wurtzite silicon as a potential absorber in photovoltaics: Tailoring the optical absorption by applying strain. <i>Physical Review B</i> , 2015 , 92,	3.3	39
528	Influence of structure and thermodynamic stability on electronic properties of two-dimensional SiC, SiGe, and GeC alloys. <i>Physical Review B</i> , 2015 , 92,	3.3	41
527	Spin-dependent properties and images of MnO, FeO, CoO, and NiO(001) surfaces. <i>Physical Review B</i> , 2015 , 92,	3.3	10
526	Near valence-band electronic properties of semiconducting G a2O3 (100) single crystals. <i>Physical Review B</i> , 2015 , 92,	3.3	27
525	Dielectric tensor of monoclinic Ga2O3 single crystals in the spectral range 0.5 B .5 eV. <i>APL Materials</i> , 2015 , 3, 106106	5.7	65
524	Metallic Properties of the Si(111) - 5 📭 - Au Surface from Infrared Plasmon Polaritons and Ab Initio Theory. <i>Nano Letters</i> , 2015 , 15, 4155-60	11.5	23

523	Amorphous Ge quantum dots embedded in crystalline Si: ab initio results. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 405302	1.8	7
522	Hamiltonian of Interacting Electrons. Springer Series in Solid-state Sciences, 2015, 13-27	0.4	
521	Topological states in 8 n and HgTe quantum wells: A comparison of ab initio results. <i>Physical Review B</i> , 2015 , 91,	3.3	17
520	Density Correlation and Electronic Polarization. Springer Series in Solid-state Sciences, 2015, 255-286	0.4	
519	Kohn-Sham Scheme. Springer Series in Solid-state Sciences, 2015 , 89-104	0.4	
518	Electron-Hole Problem. Springer Series in Solid-state Sciences, 2015, 439-457	0.4	
517	Beyond Static Screening. Springer Series in Solid-state Sciences, 2015, 539-572	0.4	
516	Non-local Exchange and Correlation. Springer Series in Solid-state Sciences, 2015, 163-195	0.4	
515	Si(111)2🛘 surface isomers: DFT investigations on stability and doping effects. <i>Surface Science</i> , 2014 , 621, 123-127	1.8	4
514	Silicene-derived phases on Ag(111) substrate versus coverage: Ab initio studies. <i>Physical Review B</i> , 2014 , 89,	3.3	54
513	Unexpected symmetry and AA stacking of bilayer silicene on Ag(111). Physical Review B, 2014, 89,	3.3	24
512	Topological 岳n surface states versus film thickness and strain. <i>Physical Review B</i> , 2014 , 90,	3.3	23
511	Optical properties of two-dimensional honeycomb crystals graphene, silicene, germanene, and tinene from first principles. <i>New Journal of Physics</i> , 2014 , 16, 105007	2.9	131
510	One- and two-particle effects in the electronic and optical spectra of barium fluoride. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 125501	1.8	3
509	Polytypism in ZnS, ZnSe, and ZnTe: First-principles study. <i>Physical Review B</i> , 2014 , 89,	3.3	31
508	Nonmetallic substrates for growth of silicene: an ab initio prediction. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 185002	1.8	41
507	Silicene on metal and metallized surfaces:ab initiostudies. New Journal of Physics, 2014, 16, 075004	2.9	24
506	Magnetic exchange force microscopy from first principles: application to the antiferromagnetic NiO(001) surface. <i>New Journal of Physics</i> , 2014 , 16, 023020	2.9	7

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505	Influence of edge and field effects on topological states of germanene nanoribbons from self-consistent calculations. <i>Physical Review B</i> , 2014 , 90,	3.3	39
504	Topological transition and edge states in HgTe quantum wells from first principles. <i>Physical Review B</i> , 2014 , 89,	3.3	13
503	First-principles calculations of energetics and electronic structure for reconstructed Si(111)[5f])Au surfaces. <i>Physical Review B</i> , 2014 , 90,	3.3	8
502	Structural and Magnetic Properties of MnTe Phases from Ab Initio Calculations. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013 , 26, 1963-1972	1.5	21
501	Silicene on hydrogen-passivated Si(111) and Ge(111) substrates. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013 , 7, 538-541	2.5	29
500	Universal infrared absorbance of two-dimensional honeycomb group-IV crystals. <i>Physical Review B</i> , 2013 , 87,	3.3	122
499	Structure, energetics, and electronic states of III-V compound polytypes. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 273201	1.8	80
498	Effects of strain on the valence band structure and exciton-polariton energies in ZnO. <i>Physical Review B</i> , 2013 , 88,	3.3	31
497	Massive Dirac quasiparticles in the optical absorbance of graphene, silicene, germanene, and tinene. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 395305	1.8	134
496	Structural and electronic properties of \(\pmathbb{H}\)in nanocrystals from first principles. <i>Physical Review B</i> , 2013 , 87,	3.3	24
495	Origin of Dirac-cone-like features in silicon structures on Ag(111) and Ag(110). <i>Journal of Applied Physics</i> , 2013 , 114, 113710	2.5	65
494	Relation between spontaneous polarization and crystal field from first principles. <i>Physical Review B</i> , 2013 , 87,	3.3	33
493	Theoretical optical spectroscopy of complex systems. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2013 , 189, 46-55	1.7	7
492	Enhanced Optical Absorption Due to Symmetry Breaking in TiO2(1日)S2x Alloys. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 4189-4193	3.8	13
491	Electronic and optical properties of cadmium fluoride: The role of many-body effects. <i>Physical Review B</i> , 2013 , 87,	3.3	13
490	Ab initio calculation of optical properties with excitonic effects in wurtzite InxGa1NN and InxAl1NN alloys. <i>Physical Review B</i> , 2013 , 87,	3.3	13
489	Direct band gap wurtzite gallium phosphide nanowires. <i>Nano Letters</i> , 2013 , 13, 1559-63	11.5	230
488	Unit cell structure of the wurtzite phase of GaP nanowires: X-ray diffraction studies and density functional theory calculations. <i>Physical Review B</i> , 2013 , 88,	3.3	27

487	Magnetic anisotropy of FeO and CoO: the Influence of gradient corrections on exchange and correlation. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 486002	1.8	6
486	Optical absorption and emission of 🖺 nanocrystals from first principles. <i>Nanotechnology</i> , 2013 , 24, 405702	3.4	10
485	Electronic Surface Properties of Transparent Conducting Oxides: An Ab Initio Study 2013 , 119-128		
484	Influence of on-site Coulomb interaction U on properties of MnO(001)2 II and NiO(001)2 II surfaces. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 094006	1.8	9
483	Magnetic exchange forces and d-state filling: Antiferromagnetic MnO(001) and NiO(001) surfaces. <i>Physical Review B</i> , 2013 , 88,	3.3	3
482	In4d and Ga3d levels in InxX1⊠N (X = Ga, Al) alloys. <i>Applied Physics Letters</i> , 2013 , 102, 172105	3.4	1
481	Ab-initio study of Mg-doped InN(0001) surface. AIP Advances, 2013, 3, 012102	1.5	2
480	Ab initio investigation of graphene-based one-dimensional superlattices and their interfaces. <i>Physical Review B</i> , 2012 , 86,	3.3	13
479	Direct experimental determination of the spontaneous polarization of GaN. <i>Physical Review B</i> , 2012 , 86,	3.3	82
478	Geometric, electronic, and optical properties of the Si(111)2d surface: Positive and negative buckling. <i>Physical Review B</i> , 2012 , 86,	3.3	14
477	Electronic bands of III-V semiconductor polytypes and their alignment. <i>Physical Review B</i> , 2012 , 86,	3.3	126
476	Influence of separation of Si nanocrystals embedded in a SiO2 matrix on electronic and optical properties. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2012 , 177, 1098-1102	3.1	4
475	Structural, electrical, and optical properties of hydrogen-doped ZnO films. <i>Physical Review B</i> , 2012 , 86,	3.3	37
474	Crystalline and magnetic anisotropy of the 3d-transition metal monoxides MnO, FeO, CoO, and NiO. <i>Physical Review B</i> , 2012 , 86,	3.3	77
473	Optical and energy-loss spectra of the antiferromagnetic transition metal oxides MnO, FeO, CoO, and NiO including quasiparticle and excitonic effects. <i>Physical Review B</i> , 2012 , 86,	3.3	51
472	Distribution of cations in wurtzitic InxGa1N and InxAl1N alloys: Consequences for energetics and quasiparticle electronic structures. <i>Physical Review B</i> , 2012 , 85,	3.3	18
471	Beyond the GW approximation: Combining correlation channels. <i>Physical Review B</i> , 2012 , 85,	3.3	52
470	First-principles optical spectra for F centers in MgO. <i>Physical Review Letters</i> , 2012 , 108, 126404	7.4	131

469	Clustering of N impurities in ZnO. Applied Physics Letters, 2012, 100, 022107	3.4	15
468	Infrared absorbance of silicene and germanene. <i>Applied Physics Letters</i> , 2012 , 100, 261906	3.4	134
467	Strong excitons in novel two-dimensional crystals: Silicane and germanane. <i>Europhysics Letters</i> , 2012 , 98, 37004	1.6	100
466	Tunneling of electrons between Si nanocrystals embedded in a SiO2 matrix. <i>Physical Review B</i> , 2012 , 86,	3.3	26
465	Surface Properties of Transparent Conducting Oxides from First Principles: In2O3, SnO2, and ZnO. <i>E-Journal of Surface Science and Nanotechnology</i> , 2012 , 10, 216-220	0.7	2
464	Defect induced modification of the surface gap and optical properties of C(111)2 surface. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 669-674	1.6	3
463	Side-dependent electron escape from graphene- and graphane-like SiC layers. <i>Applied Physics Letters</i> , 2012 , 100, 043110	3.4	35
462	Real-structure effects: Absorption edge of MgxZn1-xO, CdxZn1-xO, and n-type ZnO from ab-initio calculations 2012 ,		5
461	Large bandwidths in synthetic one-dimensional stacks of biological molecules. <i>Physical Review B</i> , 2012 , 86,	3.3	7
460	Energetics and approximate quasiparticle electronic structure of low-index surfaces of SnO2. <i>Physical Review B</i> , 2012 , 86,	3.3	27
459	Structural examination of Au/Ge(001) by surface x-ray diffraction and scanning tunneling microscopy. <i>Physical Review B</i> , 2012 , 85,	3.3	15
458	Band discontinuities at Si-TCO interfaces from quasiparticle calculations: Comparison of two alignment approaches. <i>Physical Review B</i> , 2012 , 85,	3.3	56
457	Ab initio description of quasiparticle band structures and optical near-edge absorption of transparent conducting oxides. <i>Journal of Materials Research</i> , 2012 , 27, 2180-2189	2.5	23
456	Cysteine on Gold: An ab-initio Investigation 2012 , 105-117		
455	Tin dioxide from first principles: Quasiparticle electronic states and optical properties. <i>Physical Review B</i> , 2011 , 83,	3.3	129
454	Electronic and optical properties of MgxZn1NO and CdxZn1NO fromab initiocalculations. <i>New Journal of Physics</i> , 2011 , 13, 085012	2.9	49
453	Cubic inclusions in hexagonal AlN, GaN, and InN: Electronic states. <i>Physical Review B</i> , 2011 , 84,	3.3	44
452	Polytypism of GaAs, InP, InAs, and InSb: An ab initio study. <i>Physical Review B</i> , 2011 , 84,	3.3	40

451	Unit cell structure of crystal polytypes in InAs and InSb nanowires. <i>Nano Letters</i> , 2011 , 11, 1483-9	11.5	110
450	Optical absorption in degenerately doped semiconductors: Mott transition or Mahan excitons?. <i>Physical Review Letters</i> , 2011 , 107, 236405	7.4	49
449	Luminescence and absorption in germanium and silicon nanocrystals: The influence of compression, surface reconstruction, optical excitation, and spin-orbit splitting. <i>Physical Review B</i> , 2011 , 83,	3.3	15
448	Charge transport in organic crystals: Theory and modelling. <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 511-525	1.3	118
447	Influence of exchange and correlation on structural and electronic properties of AlN, GaN, and InN polytypes. <i>Physical Review B</i> , 2011 , 84,	3.3	79
446	Effective density of states and carrier masses for Si/SiO2superlattices from first principles. <i>Semiconductor Science and Technology</i> , 2011 , 26, 014024	1.8	7
445	Interplay of excitonic effects and van Hove singularities in optical spectra: CaO and AlN polymorphs. <i>Physical Review B</i> , 2011 , 84,	3.3	44
444	Screening and band structure effects on quasi-one-dimensional transport in periodically modulated graphene. <i>Physical Review B</i> , 2011 , 84,	3.3	4
443	Electronic properties of polar and nonpolar InN surfaces: A quasiparticle picture. <i>Physical Review B</i> , 2011 , 84,	3.3	34
442	Ab initiocharacterization of the electronic properties of PbTe quantum dots embedded in a CdTe matrix. <i>Semiconductor Science and Technology</i> , 2011 , 26, 014005	1.8	6
441	Ab-initio Characterization of Electronic Properties of PbTe Quantum Dots Embedded in a CdTe Matrix 2011 , 135-147		
440	Organic-Metal Interface: Adsorption of Cysteine on Au(110) from First Principles 2011 , 119-134		
439	Magnetic interaction in pairwise Mn-doped Si nanocrystals. <i>Physical Review B</i> , 2010 , 82,	3.3	8
438	Valence-band splittings in cubic and hexagonal AlN, GaN, and InN. <i>Applied Physics Letters</i> , 2010 , 97, 232	1 <u>9.4</u>	26
437	Single cysteine adsorption on Au(110): A first-principles study. <i>Physical Review B</i> , 2010 , 81,	3.3	41
436	First-principles studies of Au-induced nanowires on Ge(001). <i>Physical Review B</i> , 2010 , 81,	3.3	34
435	Charge transport in organic crystals: interplay of band transport, hopping and electronphonon scattering. <i>New Journal of Physics</i> , 2010 , 12, 023011	2.9	57
434	Ab initio description of heterostructural alloys: Thermodynamic and structural properties of MgxZn1NO and CdxZn1NO. <i>Physical Review B</i> , 2010 , 81,	3.3	42

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433	Influence of Strong Electron Correlation on Magnetism in Transition-Metal Doped Si Nanocrystals. Journal of Chemical Theory and Computation, 2010 , 6, 353-8	6.4	10
432	Band alignment at a nonplanar Si/SiO2 interface. <i>Physical Review B</i> , 2010 , 82,	3.3	28
431	Characteristics of small- and large-polaron motion in organic crystals. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 465802	1.8	10
430	Free-carrier absorption in nitrides from first principles. <i>Physical Review B</i> , 2010 , 81,	3.3	97
429	Band lineup between silicon and transparent conducting oxides. <i>Applied Physics Letters</i> , 2010 , 97, 0321	16.4	44
428	Energetic stability and magnetic properties of MnO in the rocksalt, wurtzite, and zinc-blende structures: Influence of exchange and correlation. <i>Physical Review B</i> , 2010 , 82,	3.3	52
427	Finite-size modelling of electrodes for quantum transport calculations using k-space ab initio techniques. <i>Computer Physics Communications</i> , 2010 , 181, 746-749	4.2	3
426	Electronic and transport properties of graphene nanoribbons. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010 , 207, 304-308	1.6	28
425	Electronic and optical properties of group IV two-dimensional materials. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010 , 207, 291-299	1.6	19
424	Spectral properties of InN and its native oxide from first principles. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010 , 207, 1041-1053	1.6	10
423	Metalihsulator transition in Si(111)-(4 🗈)/(8 🗈)-In studied by optical spectroscopy. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 2033-2039	1.3	11
422	Stability of polar semiconductor heterostructures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, 244-247		
421	Optical anisotropy of Si(111)-(4 🗓)/(8 🗜)-In nanowires calculated from first-principles. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, 133-136		1
420	Interface with organic molecules: Cysteine on Au(110). <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, 149-152		10
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