

Wolfgang Schattke

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125
papers

1,791
citations

24
h-index

33
g-index

128
ext. papers

1,860
ext. citations

3.1
avg, IF

4.01
L-index

#	Paper	IF	Citations
125	Augmented Fourier components method for constructing the crystal potential in self-consistent band-structure calculations. <i>Physical Review B</i> , 1999 , 59, 10504-10511	3.3	64
124	Electronic structure of WSe ₂ : A combined photoemission and inverse photoemission study. <i>Physical Review B</i> , 1997 , 55, 10392-10399	3.3	62
123	A subroutine package for computing Green's functions of relaxed surfaces by the renormalization method. <i>Computer Physics Communications</i> , 1993 , 77, 69-83	4.2	62
122	DIFFRACTION AND HOLOGRAPHY WITH PHOTOELECTRONS AND FLUORESCENT X-RAYS. <i>Progress in Surface Science</i> , 1997 , 54, 341-386	6.6	54
121	Impact ionization rate in GaAs. <i>Physical Review B</i> , 1994 , 49, 4494-4500	3.3	51
120	Combined photoemission and inverse photoemission study of HfS ₂ . <i>Physical Review B</i> , 2001 , 63,	3.3	41
119	Surface electronic structure with the linear methods of band theory. <i>Physical Review B</i> , 1997 , 56, 12874-12883	3.3	39
118	Quasi-collective motion of nanoscale metal strings in metal surfaces. <i>Nature Materials</i> , 2003 , 2, 783-7	27	39
117	Theoretical and experimental studies of the photoemission current from GaAs(110). <i>Physical Review B</i> , 1989 , 39, 13286-13292	3.3	36
116	Three-dimensional band structure of layered TiTe ₂ : Photoemission final-state effects. <i>Physical Review B</i> , 2006 , 74,	3.3	35
115	Electronic structure of GaAs(001). <i>Physical Review B</i> , 1990 , 41, 9958-9965	3.3	33
114	Unoccupied band structure of NbSe ₂ by very low-energy electron diffraction: Experiment and theory. <i>Physical Review B</i> , 2002 , 66,	3.3	32
113	Energetic and Spatial Bonding Properties from Angular Distributions of Ultraviolet Photoelectrons: Application to the GaAs(110) Surface. <i>Physical Review Letters</i> , 1997 , 79, 4681-4684	7.4	31
112	How to Determine Fermi Vectors by Angle-Resolved Photoemission. <i>Physical Review Letters</i> , 1999 , 83, 5551-5554	7.4	30
111	Valence-band photoemission from the GaN(0001) surface. <i>Physical Review B</i> , 1999 , 60, 11577-11585	3.3	30
110	Surface-barrier and polarization effects in the photoemission from GaAs(110). <i>Physical Review B</i> , 1993 , 47, 2251-2264	3.3	30
109	Photoemission from Al(100) and (111): Experiment and ab initio theory. <i>Physical Review B</i> , 2008 , 78,	3.3	29

108	Photoemission from the (001) surface of 1T-TiSe ₂ : Comparison of calculation with experiment. <i>Physical Review B</i> , 1990 , 41, 2982-2990	3.3	28
107	Three-dimensional Fermi surface determination by angle-resolved photoelectron spectroscopy. <i>Physical Review B</i> , 2001 , 63,	3.3	27
106	PHOTOEMISSION WITHIN AND BEYOND THE ONE-STEP MODEL. <i>Progress in Surface Science</i> , 1997 , 54, 211-227	6.6	26
105	Semirelativistic technique for k <p> calculations: Optical properties of Pd and Pt. <i>Physical Review B</i>, 2001, 63,</p>	3.3	26
104	The extended-LAPW-based k \square p method for complex band structure calculations. <i>Solid State Communications</i> , 1995 , 93, 775-779	1.6	26
103	PHOTOELECTRON DIFFRACTION: SPACE, TIME, AND SPIN DEPENDENCE OF SURFACE STRUCTURES. <i>Surface Review and Letters</i> , 1997 , 04, 421-440	1.1	25
102	Determination of the hole lifetime from photoemission: Ti 3d states in TiTe ₂ . <i>Physical Review Letters</i> , 2007 , 98, 217604	7.4	25
101	Angle-resolved photoemission from surface states. <i>Physical Review Letters</i> , 2004 , 93, 027601	7.4	24
100	Valence and conduction band states of HfS ₂ : From bulk to a single layer. <i>Physical Review B</i> , 2003 , 68,	3.3	24
99	Calculation of the wave functions for semi-infinite crystals with linear methods of band theory. <i>Physical Review B</i> , 1999 , 59, R15609-R15612	3.3	24
98	Local field effects in optical excitations of semicore electrons. <i>Physical Review B</i> , 1999 , 60, R16251-R16254	3.4	24
97	Full-band Monte Carlo simulations of high-field electron transport in GaAs and ZnS. <i>Physical Review B</i> , 2003 , 67,	3.3	23
96	Electronic Structure of a Novel Class of Nanoporous Materials. <i>Physical Review Letters</i> , 1998 , 80, 3316-3319	7.4	23
95	Analysis of target-current-spectroscopy data of GaAs(110) with very-low-energy electron-diffraction calculations. <i>Physical Review B</i> , 1992 , 46, 10127-10133	3.3	21
94	Bridging from ThCr ₂ Si ₂ -type materials to hexagonal dichalcogenides: An ab initio and experimental study of KCu ₂ Se ₂ . <i>Physical Review B</i> , 2003 , 67,	3.3	20
93	Tuning dimensionality by nanowire adsorption on layered materials. <i>Physical Review Letters</i> , 2001 , 86, 1303-6	7.4	20
92	Observation of surface-induced photon fields in the photoemission of 1T-TiS ₂ . <i>Physical Review Letters</i> , 1992 , 68, 522-525	7.4	20
91	Band mapping in the one-step photoemission theory: Multi-Bloch-wave structure of final states and interference effects. <i>Physical Review B</i> , 2007 , 75,	3.3	19

90	Band-structure parameters by genetic algorithm. <i>Physical Review B</i> , 1996 , 53, 12549-12552	3.3	19
89	The final-states effect in the photo-emission spectra of TiSe ₂ . <i>Journal of Physics C: Solid State Physics</i> , 1987 , 20, 4437-4447		19
88	Diffusion and intercalation of alkali atoms in transition metal dichalcogenides. <i>Surface Science</i> , 2001 , 482-485, 424-429	1.8	18
87	Ab initio calculation of the optical and photoelectron spectra of KNbO ₃ and KTaO ₃ . <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1997 , 83, 121-127	1.7	17
86	Impact ionization rate in ZnS. <i>Physical Review B</i> , 1995 , 52, 1456-1458	3.3	17
85	Impact ionization rate and high-field transport in ZnS with nonlocal band structure. <i>Journal of Applied Physics</i> , 1996 , 80, 5054-5060	2.5	17
84	Charge transfer in misfit layered compounds. <i>Surface Science</i> , 2003 , 532-535, 705-710	1.8	16
83	Multiple scattering theory for non-spherical potentials: application to photoelectron angular distributions from oriented diatomic molecules and the study of shape resonances. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2001 , 114-116, 99-105	1.7	16
82	Hole initiated impact ionization in wide band gap semiconductors. <i>Journal of Applied Physics</i> , 1999 , 86, 4458-4463	2.5	16
81	Interface electronic structure by the renormalization method: theory and application to Sb/GaAs. <i>Journal of Physics Condensed Matter</i> , 1994 , 6, 1927-1940	1.8	16
80	Calculation of photoemission spectra for the layered crystal 1T-titanium diselenide. <i>Solid State Communications</i> , 1989 , 69, 419-423	1.6	16
79	Valence-band photoemission from GaN(001) and GaAs: GaN surfaces. <i>Physical Review B</i> , 1997 , 56, 13326-13334	3.3	15
78	Direct resolution of unoccupied states in solids via two-photon photoemission. <i>Physical Review B</i> , 2008 , 78,	3.3	15
77	Lithium adsorption by TiSe ₂ of varying concentration via density functional theory. <i>Physical Review B</i> , 2005 , 71,	3.3	15
76	Field effect on the impact ionization rate in semiconductors. <i>Journal of Applied Physics</i> , 2000 , 87, 781-788	2.5	15
75	Application of photoelectron diffraction theory to circular dichroism and spin-polarized photoelectron emission. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1996 , 80, 137-142	1.7	15
74	Interband transition rate in GaAs. <i>Physical Review B</i> , 1991 , 44, 11105-11110	3.3	15
73	The effect of frenkel defects on the electronic structure of 1T-TiSe ₂ . <i>European Physical Journal B</i> , 1987 , 66, 31-37	1.2	14

72	Nonlocal pseudopotentials in complex band-structure and photoemission calculations. <i>Physical Review B</i> , 1997 , 55, 5045-5050	3.3	13
71	Valence-band photoemission from GaAs(100) $\sqrt{3}\sqrt{3}$. <i>Physical Review B</i> , 2001 , 63,	3.3	13
70	Calculation of the dielectric function in a local representation. <i>Physical Review B</i> , 2002 , 66,	3.3	13
69	Electronic band structure of gallium nitride: a comparative angle-resolved photoemission study of single crystals and thin films. <i>Surface Science</i> , 2002 , 507-510, 223-228	1.8	13
68	Electronic structure of the GaSb(001) surface. <i>Physical Review B</i> , 1991 , 44, 6312-6328	3.3	13
67	Inelastic tunneling assisted by molecular impurities. <i>Zeitschrift für Physik A</i> , 1972 , 256, 185-198		13
66	Dielectric function and local-field effects of TiSe ₂ . <i>Physical Review B</i> , 1995 , 51, 17965-17971	3.3	12
65	Electromagnetic surface response for a solid with one-dimensional crystallinity. <i>Physical Review B</i> , 1995 , 51, 2537-2549	3.3	12
64	Variational quantum Monte Carlo ground state of GaAs. <i>Physical Review B</i> , 1996 , 54, 5512-5515	3.3	12
63	One-step photoemission calculations for ideal GaAs(001) and AlAs(001) surfaces and (GaAs) _m (AlAs) _n superlattices. <i>Physical Review B</i> , 2001 , 63,	3.3	11
62	Electronic and optical properties of cetineites nanoporous semiconductors with zeolite-like channel structure. <i>Scripta Materialia</i> , 1999 , 12, 447-450		11
61	Photoemission by screened photon fields from layered solids. <i>Surface Science</i> , 1995 , 327, 379-386	1.8	11
60	Band structure of the misfit compound (PbS)NbS ₂ compared to NbSe ₂ : experiment and theory. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2001 , 114-116, 555-561	1.7	10
59	Spin resolved photoemission spectroscopy on WSe ₂ . <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1999 , 101-103, 449-454	1.7	10
58	Angle Resolved Photoemission Spectroscopy of GaN (101-0): Experiment and Theory. <i>Physica Status Solidi (B): Basic Research</i> , 1999 , 215, 751-755	1.3	10
57	Variational quantum Monte Carlo ground state of lithium on a Slater orbital basis. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1995 , 216, 151-157	3.3	10
56	LEED intensities of TiSe ₂ including off-normal electron incidence. <i>Surface Science</i> , 1989 , 214, 436-447	1.8	10
55	Photoemission and photon screening in layered crystals. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1996 , 78, 481-484	1.7	9

54	Computation of TiSe ₂ LEED spectra. <i>Surface Science</i> , 1986 , 173, 20-29	1.8	9
53	Electron-scattering states at solid surfaces calculated with realistic potentials. <i>Physical Review B</i> , 1997 , 55, R13432-R13435	3.3	8
52	Development of the scattering theory of X-ray absorption and core level photoemission. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2002 , 126, 67-76	1.7	8
51	Cetineites: Electronic, optical, and conduction properties of nanoporous chalcogenoantimonates. <i>Physical Review B</i> , 2000 , 61, 15697-15706	3.3	8
50	Surface band structure calculation for GaAs(1 1 1) ₂ $\sqrt{3}$. <i>Solid State Communications</i> , 1989 , 70, 683-686	1.6	8
49	High-Field Transport and Impact Ionization in Wide Bandgap Semiconductors. <i>Physica Status Solidi (B): Basic Research</i> , 1997 , 204, 528-530	1.3	7
48	Impact ionization and high-field effects in wide-band-gap semiconductors. <i>Physica B: Condensed Matter</i> , 2002 , 314, 52-54	2.8	7
47	Optical potential and escape depth for electron scattering at very low energies. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1999 , 101-103, 473-478	1.7	7
46	Accurate band mapping via photoemission from thin films. <i>Physical Review B</i> , 2004 , 69,	3.3	6
45	Detection of the longitudinal photon field in surface screening by photoemission spectra. <i>Surface Science</i> , 1993 , 287-288, 676-680	1.8	6
44	Rapid propagation of a Bloch wave packet excited by a femtosecond ultraviolet pulse. <i>Physical Review B</i> , 2016 , 94,	3.3	6
43	Scattering states for very low energy electron spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1998 , 88-91, 563-569	1.7	5
42	Electron scattering states for low-energy spectroscopies. <i>Progress in Surface Science</i> , 2000 , 64, 89-138	6.6	5
41	Tagungsberichte: The interstellar medium in M31 and M33/High Field and Quantum Transport in Semiconductors/Interacting Electrons in Nanostructures/DPG-Lehrerfortbildungskurs 2000: Physik und Musik. <i>Physik Journal</i> , 2000 , 56, 80-81		5
40	Full-hemisphere valence band photoemission spectra calculated for the ideal Si(001) surface. <i>Surface Science</i> , 1996 , 357-358, 245-250	1.8	5
39	Calculation of photoemission spectra for 1TTiSe ₂ and 1TTiS ₂ . <i>Vacuum</i> , 1990 , 41, 550-552	3.7	5
38	Observation of circular dichroism in angular distribution of the valence band photoelectron from Si(001) in UPS region. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1998 , 88-91, 213-218	1.7	4
37	Adsorption and diffusion of an alkali-metal adatom on transition-metal dichalcogenides. <i>Physical Review B</i> , 2006 , 73,	3.3	4

36	Full band Monte Carlo simulations of high-field electron transport in wide band-gap semiconductors. <i>Semiconductor Science and Technology</i> , 2004 , 19, S206-S208	1.8	4
35	SURFACE SENSITIVITY OF VERY LOW ENERGY ELECTRONS. <i>Surface Review and Letters</i> , 1999 , 06, 631-633.	1.1	4
34	2013 ,		4
33	Effect of off-diagonal dielectric response on optical properties of LaTiO ₃ . <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 1885-1892	1.3	3
32	Valence band photoemission from in-situ grown GaAs(100)-c(4 × 4). <i>European Physical Journal D</i> , 2006 , 56, 21-26		3
31	Surfaces and interfaces in short-period GaAs/AlAs superlattices. <i>Progress in Surface Science</i> , 2003 , 74, 293-303	6.6	3
30	Calculation of the dielectric function for a semi-infinite crystal. <i>Physical Review B</i> , 2002 , 66,	3.3	3
29	Electronic structure and photoemission spectra of thin (GaAs) _n (AlAs) _n superlattices. <i>Surface Science</i> , 2002 , 507-510, 160-164	1.8	3
28	Theoretical photoemission line shapes and many body correlations. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1995 , 76, 265-270	1.7	3
27	Role of final states in photoemission from Al(111). <i>Surface Science</i> , 2007 , 601, 4105-4108	1.8	2
26	Relation Between Surface Crystallography and Surface Electron Structure of the Superlattice. <i>Surface Review and Letters</i> , 2003 , 10, 195-199	1.1	2
25	Electronic structure and UPS of the misfit chalcogenide (SnS)NbS ₂ and related compounds. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2001 , 114-116, 1133-1138	1.7	2
24	Variational quantum Monte Carlo calculations for solid surfaces. <i>Physical Review B</i> , 2001 , 63,	3.3	2
23	Calculation of VLEED spectra with the extended linear augmented plane wave kp method. <i>European Physical Journal D</i> , 1999 , 49, 1575-1581		2
22	Non-muffin-tin atomic scattering-matrices for semiconductor LEED-calculations. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1994 , 68, 167-173	1.7	2
21	Estimation of photoemission intensities and the surface photoelectric effect. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1994 , 68, 313-320	1.7	2
20	Nanomechanics of a hydrogen molecule suspended between two equally charged tips. <i>Physical Review B</i> , 2020 , 101,	3.3	1
19	Photoemission from Al(100): experiment and one-step theory. <i>Journal of Physics: Conference Series</i> , 2008 , 100, 072035	0.3	1

18	Contributions of the escape depth to the photoelectron intensity of a well-defined initial state. <i>Physical Review B</i> , 2004 , 70,	3.3	1
17	A theoretical investigation of photoemission spectra from (GaAs) ₂ (AlAs) ₂ superlattices. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2001 , 114-116, 1127-1132	1.7	1
16	On structure/property-relations in nanoporous semiconductors of the cetineite-type. <i>Studies in Surface Science and Catalysis</i> , 2000 , 129, 683-690	1.8	1
15	Many-body calculations for the relaxed (110) surface of GaAs. <i>European Physical Journal D</i> , 1999 , 49, 1519-1524		1
14	CESR spectroscopy in the presence of magnetic impurities. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1981 , 85, 181-184	2.3	1
13	Bloch equations for the Kondo system. <i>Zeitschrift für Physik B Condensed Matter and Quanta</i> , 1982 , 45, 315-329		1
12	Zur Theorie des nichtlokalen Supraleiters im Magnetfeld. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1968 , 23, 1822-1833	1.4	1
11	Photoemission and Photon Screening in Layered Crystals 1996 , 481-484		1
10	Electron surface states in short-period superlattices: (GaAs) ₂ /(AlAs) ₂ (100)-c(4x4). <i>Surface Science</i> , 2006 , 600, 3646-3649	1.8	0
9	Electromagnetic Interactions with Solids 2012 , 181-237		
8	Photoemission study of S adsorption on GaAs (0 0 1). <i>New Journal of Physics</i> , 2005 , 7, 115-115	2.9	
7	Bonding of Guest Molecules in the Tubes of Nanoporous Cetineite Crystals. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 658, 491		
6	Special solution of the mode-coupling equations for a two-component magnetic system. <i>Journal of Statistical Physics</i> , 1983 , 30, 607-615	1.5	
5	Stochastic Properties of a One-Dimensional Discrete Ginzburg-Landau Field. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1981 , 36, 1-9	1.4	
4	A Model for Spin-lattice Relaxation in Metals. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1976 , 31, 1422-1423	1.4	
3	Surface Dependent Geometrical Resonance of Superconductors. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1970 , 25, 189-195	1.4	
2	Band Structure in the Excitation Spectrum of Type II Superconductors. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1971 , 26, 228-232	1.4	
1	Nonadiabatic localization of H ₂ in the field of two external positive tip charges. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021 , 39, 053206	2.9	

