

PHYSICAL REVIEW B

For editorial and subscription correspondence,
please see inside front cover
(ISSN: 0163-1829)

PERIODICALS

Postmaster send address changes to:
American Institute of Physics
Suite 1NO1
2 Huntington Quadrangle
Melville, NY 11747-4502

THIRD SERIES, VOLUME 65, NUMBER 11

CONTENTS

15 MARCH 2002-I

Announcement: Change in Printing Schedule to Synchronize Online and Print Journals i

BRIEF REPORTS

Electronic structure: wide-band, narrow-band, and strongly correlated systems

- Fermi surface and internal magnetic field of the organic conductors λ -(BETS) $_2$ Fe $_x$ Ga $_{1-x}$ Cl $_4$ (4 pages) 113101
S. Uji, C. Terakura, T. Terashima, T. Yakabe, Y. Terai, M. Tokumoto, A. Kobayashi, F. Sakai,
H. Tanaka, and H. Kobayashi
- Mn 3s exchange splitting in mixed-valence manganites (4 pages) 113102
V. R. Galakhov, M. Demeter, S. Bartkowski, M. Neumann, N. A. Ovechkina, E. Z. Kurmaev,
N. I. Lobachevskaya, Ya. M. Mukovskii, J. Mitchell, and D. L. Ederer
- Ab initio* electronic structure calculation for α' TDAE-C $_{60}$ (4 pages) 113103
Shoji Ishibashi, Masanori Kohyama, and Madoka Tokumoto
- Full-potential electronic structure of Ti $_2$ AlC and Ti $_2$ AlN (4 pages) 113104
Gilles Hug and Evelyne Fries
- High-pressure structural analysis of (Nd,Sm) $_{1/2}$ Sr $_{1/2}$ MnO $_3$: Origin for pressure-induced charge ordering
(4 pages) 113105
A. Kuriki, Y. Moritomo, A. Machida, E. Nishibori, M. Takata, M. Sakata, Y. Ohishi, O. Shimomura,
and A. Nakamura
- Nonuniqueness and derivative discontinuities in density-functional theories for current-carrying and
superconducting systems (4 pages) 113106
K. Capelle and G. Vignale
- Many-body diagrammatic expansion for the exchange-correlation kernel in time-dependent density functional
theory (4 pages) 113107
I. V. Tokatly, R. Stubner, and O. Pankratov
- Radial distribution functions of *ab initio* generated amorphous covalent networks (4 pages) 113108
Fernando Alvarez, C. C. Díaz, Ariel A. Valladares, and R. M. Valladares
- Critical conductance distribution in various dimensions (4 pages) 113109
I. Trávěnek and P. Markoš
- Electronic structure of cubic and orthorhombic phases of ZrW $_2$ O $_8$ (4 pages) 113110
Lizhi Ouyang, Yong-Nian. Xu, and W. Y. Ching
- Spectroscopy of photonic bands in macroporous silicon photonic crystals (4 pages) 113111
M. Galli, M. Agio, L. C. Andreani, M. Belotti, G. Guizzetti, F. Marabelli, M. Patrini, P. Bettotti,
L. Dal Negro, Z. Gaburro, L. Pavesi, A. Lui, and P. Bellutti
- Transient excitonic states in noble metals and Al (3 pages) 113112
Wolf-Dieter Schöne and Walter Ekardt
- Efficient *ab initio* molecular-orbital approach to quasi-one-dimensional molecular crystals based on
neighboring-interaction-localized molecular orbitals (4 pages) 113113
Tomofumi Tada and Yuriko Aoki



Semiconductors I: bulk

Thermodynamic limits of the local field corrections in a spin-polarized electron system (4 pages)	113201
D. C. Marinescu and I. Tifrea	
Structural, electronic, and magnetic properties of α - and β -MnAs: LDA and GGA investigations (4 pages)	113202
Yu-Jun Zhao, W. T. Geng, A. J. Freeman, and B. Delley	
Piezoscopic deep-level transient spectroscopy studies of the silicon divacancy (4 pages)	113203
L. Dobaczewski, K. Gościński, Z. R. Żytkiewicz, K. Bonde Nielsen, L. Rubaldo, O. Andersen, and A. R. Peaker	
Photoelectron spectroscopy of tellurium in the solid, liquid, and vapor phase (4 pages)	113204
M. G. Garnier, R. Wahrenberg, and P. Oelhafen	
Electronically controlled motion of hydrogen in silicon (4 pages)	113205
Y. Kamiura, K. Fukuda, Y. Yamashita, and T. Ishiyama	
Impact ionization in GaAs: A screened exchange density-functional approach (4 pages)	113206
S. Picozzi, R. Asahi, C.B. Geller, A. Continenza, and A. J. Freeman	

Semiconductors II: surfaces, interfaces, microstructures, and related topics

Electron-optical-phonon scattering rates in spherical CdSe quantum dots in an external magnetic field (4 pages)	113301
A. M. Alcalde and G. E. Marques	
Polarization revival of a Bloch-oscillating wave packet in conjunction with resonant Zener tunneling (3 pages)	113302
D. Meinhold, B. Rosam, F. Löser, V. G. Lyssenko, F. Rossi, Jian-Zhong Zhang, K. Köhler, and K. Leo	
Giant permanent dipole moments of excitons in semiconductor nanostructures (4 pages)	113303
R. J. Warburton, C. Schulhauser, D. Haft, C. Schäfflein, K. Karrai, J. M. Garcia, W. Schoenfeld, and P. M. Petroff	
ac-driven localization in a two-electron quantum dot molecule (4 pages)	113304
C. E. Creffield and G. Platero	
Anharmonicity-induced polaron relaxation in GaAs/InAs quantum dots (4 pages)	113305
L. Jacak, J. Krasnyj, D. Jacak, and P. Machnikowski	
Characteristic adsorption of Xe on a Si(111)-(7 $\times$ 7) surface at low temperature (4 pages)	113306
Y. J. Li, O. Takeuchi, D. N. Futaba, H. Oigawa, K. Miyake, H. Shigekawa, and Y. Kuk	

Surface physics, low-dimensional systems, and related topics

<i>s-d</i> hybridization and evolution of the electronic and magnetic properties in small Co and Ni clusters (4 pages)	113401
Shu-Rong Liu, Hua-Jin Zhai, and Lai-Sheng Wang	
Strain release and twin structure in GdBa ₂ Cu ₃ O _{7-δ} films on (001) SrTiO ₃ and NdGaO ₃ (4 pages)	113402
L. X. Cao, T. L. Lee, F. Renner, Y. Su, R. L. Johnson, and J. Zegenhagen	
Surface and interface states in the Cu/V(110) structure (4 pages)	113403
S. B. Legoas and B. Laks	
Anomalous layer expansion in thin niobium films during hydrogen absorption (4 pages)	113404
Ch. Rehm, H. Maletta, M. Fieber-Erdmann, E. Holub-Krappe, and F. Klose	
Hysteresis shift in Fe-filled carbon nanotubes due to γ -Fe (4 pages)	113405
C. Prados, P. Crespo, J. M. González, A. Hernando, J. F. Marco, R. Gancedo, N. Grobert, M. Terrones, R. M. Walton, and H. W. Kroto	
Double quantum well states in Cu/Co/Cu grown on Co(001) (4 pages)	113406
W. L. Ling, Eli Rotenberg, H. J. Choi, J. H. Wolfe, F. Toyama, Silena Paik, N. V. Smith, and Z. Q. Qiu	

Oscillations of persistent edge currents in the parafermion quantum Hall states (4 pages)	113407
H. Kiryu	
Green's function theory of electrical and thermal transport in single-wall carbon nanotubes (4 pages)	113408
P. J. Lin-Chung and A. K. Rajagopal	
Low-temperature specific heat of single-wall carbon nanotubes (4 pages)	113409
J. C. Lasjaunias, K. Biljaković, Z. Benes, J. E. Fischer, and P. Monceau	
Theory of an all-carbon molecular switch (4 pages)	113410
R. Gutierrez, G. Fagas, G. Cuniberti, F. Grossmann, R. Schmidt, and K. Richter	
Surface resonances and reduced symmetry in the heteroepitaxial Ag/Cu(110) system (4 pages)	113411
D. A. Hite, O. Kizilkaya, P. T. Sprunger, E. Lægsgaard, and F. Besenbacher	
Establishing an accurate depth-scale calibration in the top few nanometers of an ultrashallow implant profile (4 pages)	113412
M. G. Dowsett, S. H. Al-Harhi, T. J. Ormsby, B. Guzmán, F. S. Gard, T. C. Q. Noakes, P. Bailey, and C. F. McConville	
Polarized resonance Raman spectroscopy of single-wall carbon nanotubes within a polymer under strain (4 pages)	113413
M. D. Frogley, Q. Zhao, and H. D. Wagner	

ARTICLES

Electronic structure: wide-band, narrow-band, and strongly correlated systems

Dimerized spin fluid in a one-dimensional electron system (4 pages)	115101
Y. Z. Zhang, C. Q. Wu, and H. Q. Lin	
Optical probe of the metal-insulator transition in pyrochlore-type molybdate (5 pages)	115102
Y. Taguchi, K. Ohgushi, and Y. Tokura ^{1,2,3}	
Embedding approach for rapid convergence of plane waves in photonic calculations (10 pages)	115103
R. Kemp and J. E. Inglesfield	
Depleted Kondo lattices: Quantum Monte Carlo and mean-field calculations (11 pages)	115104
F. F. Assaad	
Delocalization and phase transitions in Pr: Theory (5 pages)	115105
Per Söderlind	
<i>Ab initio</i> many-body calculations on infinite carbon and boron-nitrogen chains (7 pages)	115106
Ayjamal Abdurahman, Alok Shukla, and Michael Dolg	
Linear $T_{1u} \otimes h_g$ Jahn-Teller problem (14 pages)	115107
Janette L. Dunn, Mark R. Eccles, Yimin Liu, and Colin A. Bates	
Spin transport in a quantum wire (10 pages)	115108
Cristina Bena and Leon Balents	
Relaxation of an electron system: Conserving approximation (14 pages)	115109
G. S. Atwal and N. W. Ashcroft	
Transfer of spectral weight in the degenerate Hubbard Model in infinite dimension (9 pages)	115110
Pierre Lombardo and Gilbert Albinet	
Exchange integrals of $\text{Sr}_2\text{CuO}_2\text{Cl}_2$ and $\text{Ba}_2\text{Cu}_3\text{O}_4\text{Cl}_2$ from LDA+ <i>U</i> calculations (7 pages)	115111
A. N. Yaresko, A. Y. Perlov, R. Hayn, and H. Rosner	
Polaron and bipolaron defects in a charge density wave: A model for lightly doped BaBiO_3 (7 pages)	115112
Ilka B. Bischofs, Vladimir N. Kostur, and Philip B. Allen	
Self-trapped exciton defects in a charge density wave: Electronic excitations of BaBiO_3 (5 pages)	115113
Philip B. Allen and Ilka B. Bischofs	
Interacting particles at a metal-insulator transition (7 pages)	115114
Cosima Schuster, Rudolf A. Römer, and Michael Schreiber	

Luttinger liquid superlattices: Realization of gapless insulating phases (14 pages)	115115
J. Silva-Valencia, E. Miranda, and Raimundo R. dos Santos	
Lifetimes of quasiparticle excitations in 4d transition metals: Scattering theory and LMTO-RPA-GW approaches (11 pages)	115116
V. P. Zhukov, F. Aryasetiawan, E. V. Chulkov, and P. M. Echenique	
Weakly coupled one-dimensional Mott insulators (13 pages)	115117
Fabian H. L. Essler and Alexei M. Tsvelik	
Optical evidence of multiphase coexistence in single crystalline (La,Pr,Ca)MnO ₃ (6 pages)	115118
H. J. Lee, K. H. Kim, M. W. Kim, T. W. Noh, B. G. Kim, T. Y. Koo, S.-W. Cheong, Y. J. Wang, and X. Wei	

Semiconductors I: bulk

Angle-resolved photoemission study and first-principles calculation of the electronic structure of GaTe (8 pages)	115201
J. F. Sánchez-Royo, J. Pellicer-Porres, A. Segura, V. Muñoz-Sanjosé, G. Tobías, P. Ordejón, E. Canadell, and Y. Huttel	
Effective mass of conduction electrons in Cd _{1-x} Mn _x Te (10 pages)	115202
Y. H. Matsuda, T. Ikaida, N. Miura, S. Kuroda, F. Takano, and K. Takita	
Theoretical study of the effects of isovalent coalloying of Bi and N in GaAs (5 pages)	115203
A. Janotti, Su-Huai Wei, and S. B. Zhang	
Effect of Ni on the transport and magnetic properties of Co _{1-x} Ni _x Sb ₃ (9 pages)	115204
Jeffrey S. Dyck, Wei Chen, Jihui Yang, Gregory P. Meisner, and Ctirad Uher	
Local structure of liquid GeTe via neutron scattering and <i>ab initio</i> simulations (10 pages)	115205
J. Y. Raty, V. V. Godlevsky, J. P. Gaspard, C. Bichara, M. Bionducci, R. Bellissent, R. Céolin, James R. Chelikowsky, and Ph. Ghosez	
Effective electron mass and phonon modes in <i>n</i> -type hexagonal InN (7 pages)	115206
A. Kasic, M. Schubert, Y. Saito, Y. Nanishi, and G. Wagner	
Theory of hydrogen in diamond (13 pages)	115207
J. P. Goss, R. Jones, M. I. Heggie, C. P. Ewels, P. R. Briddon, and S. Öberg	
Long-wavelength limit (homogenization) for two-dimensional photonic crystals (17 pages)	115208
A. A. Krokhin, P. Halevi, and J. Arriaga	
Oscillating magnetoresistance in diluted magnetic semiconductor barrier structures (5 pages)	115209
Kai Chang, J. B. Xia, and F. M. Peeters	
Stability of large vacancy clusters in silicon (11 pages)	115210
T.E.M. Staab, A. Sieck, M. Haugk, M.J. Puska, Th. Frauenheim, and H.S. Leipner	
Anomalous current-voltage characteristics of polymer light-emitting diodes (5 pages)	115211
Gui Yu, Yunqi Liu, Shuqin Zhou, Fenglian Bai, Pengju Zeng, Min Zheng, Xia Wu, and Daoben Zhu	
Diluted magnetic semiconductors based on Sb _{2-x} V _x Te ₃ (0.01 ≤ <i>x</i> ≤ 0.03) (7 pages)	115212
Jeffrey S. Dyck, Pavel Hájek, Petr Lošťák, and Ctirad Uher	
Elemental process of amorphization induced by electron irradiation in Si (10 pages)	115213
Jun Yamasaki, Seiji Takeda, and Kenji Tsuda	

Semiconductors II: surfaces, interfaces, microstructures, and related topics

Theory of double magnetophonon resonance in a two-dimensional electron gas in a tilted magnetic field (10 pages)	115301
V. V. Afonin, V. L. Gurevich, and R. Laiho	
Wannier-Stark resonances in semiconductor superlattices (9 pages)	115302
M. Glück, A. R. Kolovsky, H. J. Korsch, and F. Zimmer	
Dephasing time of disordered two-dimensional electron gas in modulated magnetic fields (7 pages)	115303
Xiao-Bing Wang	

Density-dependent intersubband absorption in strongly disordered systems (10 pages)	115304
R. N. Riemann, C. Metzner, and G. H. Döhler	
Quantum dots in high magnetic fields: Calculation of ground-state properties (5 pages)	115305
J. Kainz, S. A. Mikhailov, A. Wensauer, and U. Rössler	
Kinetic instabilities during plasma etching of GaAs(001) (4 pages)	115306
S. W. Robey	
Local density of states and scattering matrix in quasi-one-dimensional systems (7 pages)	115307
Satofumi Souma and Akira Suzuki	
Two-component approach for thermodynamic properties in diluted magnetic semiconductors (11 pages)	115308
Malcolm P. Kennett, Mona Berciu, and R. N. Bhatt	
Variance of direct current in mesoscopic rings (8 pages)	115309
V. I. Yudson	
Optical method for the determination of carrier density in modulation-doped quantum wells (9 pages)	115310
G. V. Astakhov, V. P. Kochereshko, D. R. Yakovlev, W. Ossau, J. Nürnberger, W. Faschinger, G. Landwehr, T. Wojtowicz, G. Karczewski, and J. Kossut	
Selective attachment of benzonitrile on Si(111)-7×7: Configuration, selectivity, and mechanism (9 pages)	115311
Feng Tao, Zhong Hai Wang, Xian Feng Chen, and Guo Qin Xu	
Quantum-dot lithium in zero magnetic field: Electronic properties, thermodynamics, and Fermi liquid–Wigner solid crossover in the ground state (12 pages)	115312
S. A. Mikhailov	
Ballistic effect in red photoluminescence of Si wires (7 pages)	115313
T. V. Torchynska, M. Morales Rodriguez, F. G. Becerril Espinoza, L. Yu. Khomenkova, N. E. Korsunskaya, and L. V. Scherbina	
Scattering of hot excitons due to optical phonons in quantum wells: Multiphonon resonant Raman process (11 pages)	115314
C. Trallero-Giner, Fernando de León-Pérez, Meng Lu, and Joseph L. Birman	
True direct gap absorption in germanium quantum films (4 pages)	115315
Alexander N. Kholod, Stefano Ossicini, V. E. Borisenko, and F. Arnaud d'Avitaya	
Atomistic simulation of strain relaxation in $\text{In}_x\text{Ga}_{1-x}\text{As}/\text{GaAs}$ quantum dots with nonuniform composition (5 pages)	115316
M. A. Migliorato, A. G. Cullis, M. Fearn, and J. H. Jefferson	
Inelastic scattering time for conductance fluctuations (10 pages)	115317
I. L. Aleiner and Ya. M. Blanter	
Absolute surface energies of group-IV semiconductors: Dependence on orientation and reconstruction (10 pages)	115318
A. A. Stekolnikov, J. Furthmüller, and F. Bechstedt	
Tunneling effect on the composite fermion pairing state in bilayer quantum Hall systems (5 pages)	115319
Takao Morinari	
Resonant excitation study of ultrasharp emission lines in ordered $\text{Ga}_x\text{In}_{1-x}\text{P}$ (5 pages)	115320
B. Fluegel, S. Smith, Y. Zhang, A. Mascarenhas, J. F. Geisz, and J. M. Olson	
STM study of the C-induced Si(100)-c(4×4)reconstruction (8 pages)	115321
S. T. Jemander, H. M. Zhang, R. I. G. Uhrberg, and G. V. Hansson	
Photoluminescence of self-assembled InSb quantum dots grown on GaSb as a function of excitation power, temperature, and magnetic field (7 pages)	115322
E. Alphandéry, R. J. Nicholas, N. J. Mason, S. G. Lyapin, and P. C. Klipstein	
Broken-symmetry states in quantum Hall superlattices (8 pages)	115323
C. B. Hanna, J. C. Díaz-Vélez, and A. H. MacDonald	
Binding energy of charged excitons in semiconductor quantum wells in the presence of longitudinal electric fields (6 pages)	115324
Luis C. O. Dacal and José A. Brum	

Binding energy of charged excitons bound to interface defects of semiconductor quantum wells (5 pages)	115325
Luis C. O. Dacal, R. Ferreira, G. Bastard, and José A. Brum ^{2,3}	
Coulomb blockade of strongly coupled quantum dots studied via bosonization of a channel with a finite barrier (13 pages)	115326
John M. Golden and Bertrand I. Halperin	
Ripple propagation and velocity dispersion on ion-beam-eroded silicon surfaces (6 pages)	115327
S. Habenicht, K. P. Lieb, J. Koch, and A. D. Wieck	
Impact of optical phonon scattering on magnetotransport in double-barrier heterostructures (7 pages)	115328
Dae Kwan Kim, Patrick Roblin, Kwang-Sup Soh, and Chul Koo Kim	
Double quantum dot as a spin rotator (15 pages)	115329
Konstantin Kikoin and Yshai Avishai	
Photoluminescence in integer quantum Hall systems (12 pages)	115330
Kenichi Asano and Tsuneya Ando	
Control of crystal polarity in a wurtzite crystal: ZnO films grown by plasma-assisted molecular-beam epitaxy on GaN (10 pages)	115331
Soon-Ku Hong, Takashi Hanada, Hang-Ju Ko, Yefan Chen, Takafumi Yao, Daisuke Imai, Kiyooki Araki, Makoto Shinohara, Koh Saitoh, and Masami Terauchi	
Cotunneling thermopower of single electron transistors (9 pages)	115332
M. Turek and K. A. Matveev	
Dephasing in a quantum pump (7 pages)	115333
J. N. H. J. Cremers and P. W. Brouwer	
Intersubband and interminiband spectroscopy of doped and undoped CdS/ZnSe multiple quantum wells and superlattices (9 pages)	115334
M. Göppert, M. Grün, C. Maier, S. Petillon, R. Becker, A. Dinger, A. Storzum, M. Jörger, and C. Klingshirn	
Photoemission study of GaAs(100) grown at low temperature (6 pages)	115335
H. Åsklund, L. Ilver, J. Kanski, J. Sadowski, and M. Karlsteen	
Quenching of the exciton-spin relaxation via exchange interaction in GaAs/Al _x Ga _{1-x} As quantum wells (4 pages)	115336
J. Urdanivia, F. Iikawa, M. Z. Maialle, J. A. Brum, P. Hawrylak, and Z. Wasilewski	
Enhancement and suppression of shot noise in capacitively coupled metallic double dots (8 pages)	115337
M. Gattobigio, G. Iannaccone, and M. Macucci	

Surface physics, low-dimensional systems, and related topics

Microstructure of the α -Al ₂ O ₃ (11 $\bar{2}$ 0) surface (8 pages)	115401
Th. Becker, A. Birkner, G. Witte, and Ch. Wöll	
Modeling photonic force microscopy with metallic particles under plasmon eigenmode excitation (8 pages)	115402
J. R. Arias-González, M. Nieto-Vesperinas, and M. Lester	
Calorimetry of hydrogen desorption from <i>a</i> -Si nanoparticles (5 pages)	115403
J. Farjas, D. Das, J. Fort, P. Roura, and E. Bertran	
Optical second-harmonic generation and scanning tunneling microscopy study of the self-assembly process of cyanine dyes on Br-Ag(111) substrates (7 pages)	115404
I. Drevenšek-Olenik, F. Touhari, J. W. Gerritsen, P. Callant, Th. Rasing, and H. van Kempen	
<i>Ab initio</i> calculations of multilayer relaxations of stepped Cu surfaces (8 pages)	115405
Rolf Heid, Klaus Peter Bohnen, Abdelkader Kara, and Talat S. Rahman ^{2,3}	
Correlation between height selection and electronic structure of the uniform height Pb/Si(111) islands (4 pages)	115406
M. Hupalo and M. C. Tringides	

Discrete structure of ultrathin dielectric films and their surface optical properties (14 pages)	115407
S. V. Sukhov and K. V. Krutitsky	
Surface morphology, stress, and volume change during growth and crystallization of interface-stabilized amorphous $\text{Fe}_{100-x}\text{Zr}_x$ films (7 pages)	115408
S. G. Mayr and K. Samwer	
Submonolayer molecular hydrogen on graphite: A path-integral Monte Carlo study (12 pages)	115409
Kwangsik Nho and Efstratios Manousakis	
Fundamental role of ion bombardment for the synthesis of cubic boron nitride films (5 pages)	115410
H. Hofsäss, H. Feldermann, S. Eyhusen, and C. Ronning	
Oxygen-induced $p(2 \times 3)$ reconstruction on Mo(112) studied by LEED and STM (8 pages)	115411
T. Schroeder, J. B. Giorgi, A. Hammoudeh, N. Magg, M. Bäumer, and H.-J. Freund	
Electronic structure of polyhedral carbon cages consisting of hexagons and triangles (12 pages)	115412
A. Ceulemans, S. Compennolle, A. Delabie, K. Somers, L. F. Chibotaru, P. W. Fowler, M. J. Margańska, and M. Szopa	
Tiling of a Nb(110) surface with NbO crystals nanosized by the NbO/Nb misfit (8 pages)	115413
I. Arfaoui, J. Cousty, and H. Safa	
Onset voltage shift due to nonzero Landau ground-state level in coherent magnetotransport (5 pages)	115414
Dae Kwan Kim and Patrick Roblin	
Possible microscopic explanation of the virtually universal occurrence of static friction (9 pages)	115415
J. B. Sokoloff	
First-principles density-functional calculations for optical spectra of clusters and nanocrystals (18 pages)	115416
Igor Vasiliev, Serdar Ögüt, and James R. Chelikowsky	
Growth of epitaxial Yb silicide on Si(100) studied by metastable atom deexcitation spectroscopy and photoemission (10 pages)	115417
L. Pasquali, S. D'Addato, and S. Nannarone	
Retarded field calculation of electron energy loss in inhomogeneous dielectrics (17 pages)	115418
F. J. García de Abajo and A. Howie	
Dissipative van der Waals interaction between a small particle and a metal surface (11 pages)	115419
A. I. Volokitin and B. N. J. Persson	
Long-range adsorbate interactions mediated by a two-dimensional electron gas (5 pages)	115420
N. Knorr, H. Brune, M. Epple, A. Hirstein, M. A. Schneider, and K. Kern	
Tip influence on plasmon excitations in single gold particles in an STM (8 pages)	115421
N. Nilius, N. Ernst, and H.-J. Freund	
Ordering and metastable state during the growth of fcc alloy monolayers (8 pages)	115422
Hongting Shi and Jun Ni	
Scanning tunneling spectroscopy on crossed carbon nanotubes (5 pages)	115423
J. W. Janssen, S. G. Lemay, L. P. Kouwenhoven, and C. Dekker	
Electrical conductance of reconstructed silicon surfaces (11 pages)	115424
Kwonjae Yoo and H. H. Weitering	

ERRATA

Erratum: Structure and energetics of stoichiometric TiO_2 anatase surfaces [Phys. Rev. B 63 , 155409 (2001)] (1 page)	119901(E)
Michele Lazzeri, Andrea Vittadini, and Annabella Selloni	

Cumulative Author Index	iii
-----------------------------------	-----