

Semiconductors I: bulk

First-principles study of aluminum and sodium complexes with hydrogen in silicon dioxide	1524
Marco Magagnini	
Self-interstitial in diamond	1528
Gordon Davies, Hannah Smith, and H. Kanda	
Time-resolved photoluminescence study of hydrogenated amorphous silicon nitride	1532
Kwang Soo Seol, Takashi Watanabe, Makoto Fujimaki, Hiromitsu Kato, Yoshimichi Ohki, and Makoto Takiyama	
Resonant Raman scattering in spontaneously ordered GaInP ₂	1536
Hyeonsik M. Cheong, Angelo Mascarenhas, John F. Geisz, and Jerry M. Olson	

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

High-density ultrasmall epitaxial Ge islands on Si(111) surfaces with a SiO ₂ coverage	1540
Alexander A. Shklyae, Motoshi Shibata, and Masakazu Ichikawa	
Thermodynamics of half-filled Landau levels: A study of the composite fermion mass	1544
Luis G. C. Rego	
From spatially indirect excitons to momentum-space indirect excitons by an in-plane magnetic field	1548
L. V. Butov, A. V. Mintsev, Yu. E. Lozovik, K. L. Campman, and A. C. Gossard	
Asymmetric photoluminescence spectra from excitons in a coupled microcavity	1552
M. Emam-Ismael, V. N. Astratov, M. S. Skolnick, D. M. Whittaker, and J. S. Roberts	
Structural and electronic properties of the Sn/Si(111)- $\sqrt{3} \times \sqrt{3}R30^\circ$ surface	1556
G. Profeta, A. Continenza, L. Ottaviano, W. Mannstadt, and A. J. Freeman	
Peak position of the intersubband absorption spectrum of quantum wells with controlled electron concentrations	1560
S. Tsujino, M. Rüfenacht, H. Nakajima, T. Noda, C. Metzner, and H. Sakaki	
Single-electron acoustic charge transport on shallow-etched channels in a perpendicular magnetic field	1564
J. Cunningham, V. I. Talyanskii, J. M. Shilton, M. Pepper, A. Kristensen, and P. E. Lindelof	
Dynamics of carrier tunneling between vertically aligned double quantum dots	1568
Atsushi Tackeuchi, Takamasa Kuroda, Kazuo Mase, Yoshiaki Nakata, and Naoki Yokoyama	
Frictional drag between coupled two-dimensional hole gases in GaAs/Al _{0.3} Ga _{0.7} As heterostructures	1572
C. Jörger, S. J. Cheng, H. Rubel, W. Dietsche, R. Gerhardts, P. Specht, K. Eberl, and K. v. Klitzing	
Shot noise of Coulomb drag current	1576
V. L. Gurevich and M. I. Muradov	
Transport through a coupled quantum dot system: Role of interdot interactions	1580
Sushil Lamba and S. K. Joshi	
Quantum confinement of quasi-two-dimensional E_1 excitons in Ge nanocrystals studied by resonant Raman scattering	1584
K. L. Teo, S. H. Kwok, P. Y. Yu, and Soumyendu Guha	
Transfer of coherent dynamics between discrete excitons and exciton Fano continua in quantum wells	1588
S. Arlt, J. Kunde, F. Morier-Genoud, U. Keller, and U. Siegner	
Effects of few-particle interaction on the atomiclike levels of a single strain-induced quantum dot	1592
Ross Rinaldi, Salvatore Antonaci, Massimo DeVittorio, Roberto Cingolani, Ulrich Hohenester, Elisa Molinari, Harri Lipsanen, and Jukka Tulkki	
Adsorption of benzene on Si(100) from first principles	1596
Pier Luigi Silvestrelli, Francesco Ancilotto, and Flavio Toigo	