

Semiconductors I: bulk

- First-principles study of impurity segregation in edge dislocations in Si 1674
Theodore Kaplan, Feng Liu, Mark Mostoller, M. F. Chisholm, and V. Milman

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

- Structural changes in α -Si:H film crystallinity with high H dilution 1677
A. H. Mahan, J. Yang, S. Guha, and D. L. Williamson
- Optical characterization of indium-terminated GaAs(001) surfaces 1681
C. Goletti, C. Springer, U. Resch-Esser, N. Esser, W. Richter, and B. O. Fimland
- Distorted icosahedral cage structure of Si_{60} clusters 1685
Bao-xing Li, Pei-lin Cao, and Duan-lin Que
- Ge-Si intermixing at the Ge/Si(001) surface 1688
Jun-Hyung Cho and Myung-Ho Kang
- Dephasing in the quasi-two-dimensional exciton-biexciton system 1692
W. Langbein and J. M. Hvam
- Polariton-acoustic-phonon interaction in a semiconductor microcavity 1696
G. Cassabo, A. L. C. Triques, F. Bogani, C. Delalande, Ph. Roussignol, and C. Piermarocchi
- Polaronic excitons in $\text{Zn}_x\text{Cd}_{1-x}\text{Se}/\text{ZnSe}$ quantum wells 1700
Andrea De Nardis, Vittorio Pellegrini, Raffaele Colombelli, Fabio Beltram, Lia Vanzetti, Alfonso Franciosi, I. N. Krivorotov, and K. K. Bajaj
- Tunneling-assisted acoustic-plasmon-quasiparticle excitation resonances in coupled quasi-one-dimensional electron gases 1704
Guo-Qiang Hai and Marcos R. S. Tavares
- Thermal donor and antimony energy levels in relaxed $\text{Si}_{1-x}\text{Ge}_x$ layers 1708
E. V. Monakhov, A. Yu. Kuznetsov, B. G. Svensson, and A. Nylandsted Larsen
- Magnetic-field-induced dispersion anisotropy of intersubband excitations in an asymmetrical quasi-two-dimensional electron system 1712
L. V. Kulik, I. V. Kukushkin, V. E. Kirpichev, K. v. Klitzing, and K. Eberl
- Quantization of the conductance of a three-dimensional quantum wire in the presence of a magnetic field 1716
V. A. Geyler and V. A. Margulis
- Level fluctuations and many-body effects in disorder-free quantum dots 1720
Min-Chul Cha and S.-R. Eric Yang
- Semiclassical transport in a square billiard: Conductance oscillations as probe of coherence length 1724
T. Blomquist and I. V. Zozoulenko
- Electric-field effects on electronic tunneling transport in magnetic barrier structures 1728
Yong Guo, Hao Wang, Bing-Lin Gu, and Yoshiyuki Kawazoe
- Magnetoconductance oscillations in ballistic semiconductor-superconductor junctions 1732
Yasuhiro Asano
- Quasi-two-dimensional spin distributions in II-VI magnetic semiconductor heterostructures: Clustering and dimensionality 1736
S. A. Crooker, N. Samarth, and D. D. Awschalom
- Optical degeneracies in anisotropic layered media: Treatment of singularities in a 4×4 matrix formalism 1740
W. Xu, L. T. Wood, and T. D. Golding
- Electronic structure of cleaved-edge-overgrowth strain-induced quantum wires 1744
M. Grundmann, O. Stier, A. Schliwa, and D. Bimberg