

Contents

- | | |
|---|---|
| <p>227 Solid solutions of $Cd_xHg_{1-x}Te : V : Mn$, $Cd_xHg_{1-x}Te : Ti : Mn$ ($x = 0.9 - 0.95$): growth and properties
 <i>S.Yu. Paranchych, Yu.V. Tanasyuk, V.R. Romanyuk, O.S. Romanyuk, V.M. Makogonenko, M.D. Andriychuk, S.V. Synylo, Yu.I. Ivonyak</i></p> | <p>251 Partial polarization switching in ferroelectrics-semiconductors with charged defects
 <i>A.N. Morozovska, E.A. Eliseev, E. Cattan, D. Remiens</i></p> |
| <p>231 The influence of ion implantation by phosphorous on structural changes in porous silicon
 <i>Z. Swiatek, I. Lytvynchuk, I. Fodchuk</i></p> | <p>263 Peculiarities and asymmetry of polarization reversal in Pt/PZT-film/Pt:Ti/SiO₂/Si-substrate structures in pyroelectric response investigations
 <i>S.L. Bravina, E. Cattan, N.V. Morozovsky, D. Remiens</i></p> |
| <p>236 Mathematic modeling the oxygen distribution mechanism in Si ingots during growing processes
 <i>A.P. Oksanich, S.E. Pritchyn, A.V. Vasheruk</i></p> | <p>272 Effect of pulse thermal treatments on Ni(Ti)-<i>n</i>-21R(6H)-SiC contact parameters
 <i>S.P. Avdeev, O.A. Agueev, R.V. Konakova, Ya. Ya. Kudryk, O.S. Lytvyn, P.M. Lytvyn, V.V. Milenin, D.A. Sechenov, A.M. Svetlichny, S.I. Soloviev, T.S. Sudarshan</i></p> |
| <p>240 Radiation-stimulated relaxation of internal mechanical straines in homoepitaxial GaP films
 <i>P.A. Gentsar, A.A. Kudryavtsev</i></p> | <p>279 Theory of free-carrier absorption in the presence of a quantizing magnetic field in quasi-one-dimensional quantum well structures
 <i>G.B. Ibragimov</i></p> |
| <p>243 Raman spectra and electron microscopic investigations of the sections of modified As₂S₃ glasses
 <i>N. Mateleshko, V. Mitsa, E. Borkach</i></p> | <p>283 Optical intersubband transitions in quantum wires with an applied magnetic field
 <i>G.B. Ibragimov</i></p> |
| <p>247 Spectrum of electron-hole pair in quantum dots of a semiconductor nanolaser: theory
 <i>S.I. Pokutnyi</i></p> | |

- 287 Ellipsometry examination of copper alloys with transitive metals**
*Y.V. Filipov, V.S. Staschuk,
L.V. Poperenko, V.V. Vovchenko*
- 291 Optical properties of dielectric layers with CeO₂**
T.V. Semikina
- 297 Structure dependence of CsI(Tl) films scintillation properties**
*A. Ananenko, A. Fedorov,
A. Lebedinsky, P. Mateychenko,
V. Tarasov, Yu. Vidaj*
- 301 On the nature of the fine structure in emission spectra of XeCl laser**
*I.V. Blonskyy, A.V. Gnatovskyy,
N.G. Zubrilin, I.A. Pavlov,
M.P. Chernomorets*
- 304 Possibility of a laser action under electrochemical excitation in a cell with a multilayer working electrode**
*D.A. Vasyanovitch, Y.T. Zholudov,
N.N. Rozhitskii*
- 309 Liquid crystal modulator in the channel of a laser projection microscope**
*P. Oleksenko, V. Sorokin,
R. Zelinskyy*
- 313 Approximation of electro-optical hysteresis characteristics of ChLC**
*A. Rybalochka, M. Chumachkova,
V. Sorokin*
- 318 Gold and colloidal gold surface induce DNA conformation change**
*G.I. Dovbeshko, O.P. Gnatyuk,
V.I. Chegel, Y.M. Shirshov,
D.V. Kosenkov, E.A. Andreev,
H.A. Tajmir-Riahi, P.M. Lytvyn*
- 326 The effect of structural-kinetic features of hologram formation on holographic properties of photopolymers**
*T. Smirnova, O. Sakhno,
S. Lozenko*