
Content

Editorial	324		
Semiconductor physics			
Diffusion properties of electrons in GaN crystals subjected to electric and magnetic fields <i>G.I. Syngayivska, V.V. Korotyeyev, V.A. Kochelap</i>	325-335		
Nature and kinetics of paramagnetic defects induced by beta-irradiation of chitosan <i>A.A. Konchits, B.D. Shanina, I.B. Yanchuk, S.V. Krasnovyid</i>	336-344		
Influence of intrinsic point defects and substitutional impurities (Cl, I → S) on the electronic structure of 2H-SnS₂ <i>D.I. Bletskan, V.V. Frolova</i>	345-359		
Thin dysprosium oxide films formed by rapid thermal annealing on porous SiC substrates <i>Yu.Yu. Bacherikov, R.V. Konakova, O.B. Okhrimenko, N.I. Berezovska, O.S. Lytvyn, L.M. Kapitanchuk, A.M. Svetlichnyi</i>	360-364		
Synergetics of the instability and randomness in formation of gradient modified semiconductor structures <i>N.V. Yurkovych, M.I. Mar'yan, V. Seben</i>	365-373		
1/f noise and carrier transport mechanisms in InSb p⁺-n junctions <i>V.V. Tetyorkin, A.V. Sukach, A.I. Tkachuk, S.P. Trotsenko</i>	374-379		
Hetero- and low-dimensional structures			
2D semiconductor structures as a basis for new high-tech devices (Review) <i>D.V. Korbutyak, V.G. Lytovchenko, M.V. Strikha</i>	380-386		
Electrical and dielectrical properties of composites based on (Ag_{1-x}Cu_x)₇GeS₅I mixed crystals <i>V.Yu. Izai, V.I. Studenyak, A.I. Pogodin, I.P. Studenyak, M. Rajňák, J. Kurimsky, M. Timko, P. Kopčanský</i>	387-391		
Clusters of nickel atoms and controlling their state in silicon lattice <i>M.K. Bakhadyrkhanov, K.A. Ismailov, B.K. Ismaylov, Z.M. Saparniyazova</i>	392-396		
Influence of Li-TCNQ impurities on dielectric properties of planar-oriented nematic liquid crystal <i>V.E. Vovk, O.V. Kovalchuk, T.M. Kovalchuk</i>	397-401		
Domain structure regularization in monocrystalline barium hexaferrite <i>A.L. Nikytenko, V.I. Kostenko, V.I. Grygoruk, V.F. Romaniuk</i>	402-406		
Influence of nanoparticles of Cu₇GeS₅I superionic conductor on dielectric properties of planar-oriented nematic liquid crystal 6CB <i>O.V. Kovalchuk, M.M. Luchynets, I.P. Studenyak, M. Timko, P. Kopčanský, T.M. Kovalchuk</i>	407-411		
Optics			
Ellipsometry of hybrid noble metal-dielectric nanostructures <i>A.L. Yampolskiy, O.V. Makarenko, L.V. Poperenko, V.O. Lysiuk</i>	412-416		
Optical properties of ternary alloys MgZnO in infrared spectrum <i>E.F. Venger, I.V. Venger, N.O. Korsunskaya, L.Yu. Melnichuk, O.V. Melnichuk, L.Yu. Khomenkova</i>	417-423		
Optoelectronics and optoelectronic devices			
Spectral control of power diode lasers with enhanced output by external cavity based on volume holographic grating <i>S.M. Bashchenko, L.S. Marchenko, A.M. Negriyko, T.N. Smirnova, I.V. Matsnev</i>	424-428		
Linear and nonlinear solid-state optics			
Reduction of speckle noise in laser energy distribution on the target by means of modified Fourier hologram and incoherent averaging technique <i>A.G. Derzhypolskyi, O.V. Gnatovskiy, L.A. Derzhypolska</i>	429-433		
Lectures, Presentations			
<i>(For subscribers only)</i>			
Photovoltaics today <i>V.D. Kostylyov</i>	434		
Hybrid organic-inorganic heterojunctions: Principles of functioning and application in solar cells <i>O.P. Dimitriev</i>	435		
History			
V.A. Tyagai, 80-year anniversary <i>Colleagues and disciples of Valeriy Arnoldovich Tyagai (SPQEO Editorial Board)</i>	436-437		
2018 Authors			
Author Index 2018	438-442		
Information			
For contributors to SPQEO	443-444		