

## Contents

273-283

**Infrared and terahertz in biomedicine**

*F.F. Sizov*

284-296

**Ellipsometry and optical spectroscopy of low-dimensional family TMDs**

*V.G. Kravets, V.V. Prorok, L.V. Poperenko, I.A. Shaykevich*

297-304

**Raman study of L-Asparagine and L-Glutamine molecules adsorbed on aluminum films in a wide frequency range**

*B.O. Golichenko, V.M. Naseka, V.V. Strelchuk, O.F. Kolomys*

305-313

**On determination of  $Cd_{1-x}Zn_xTe$  composition from an analysis of the 4.2, 77 and 295 K edge photoluminescence spectra**

*K.D. Glinchuk, V.P. Maslov, O.M. Strilchuk, A.B. Lyapina*

314-318

**The influence of substrate temperature on properties of Cu-Al-O films deposited using the reactive ion beam sputtering method**

*A.I. Ievtushenko, M.G. Dusheyko, V.A. Karpyna, O.I. Bykov, P.M. Lytvyn, O.I. Olifan, V.A. Levchenko, A.A. Korchovi, S.P. Starik, S.V. Tkach, E.F. Kuzmenko, G.V. Lashkarev*

319-324

**Gross-Tulub polaron functional in the region of intermediate and strong coupling**

*N.I. Kashirina*

325-329

**Effective lifetime of minority carriers in black silicon nano-textured by cones and pyramids**

*V.F. Onyshchenko, L.A. Karachevtseva, O.O. Lytvynenko, M.M. Plakhotnyuk, O.Y. Stronska*

330-334

**Peculiarities of nanocrystalline silicon films growth on porous anodic alumina surface**

*P.V. Parfenyuk, A.A. Evtukh, I.M. Korobchuk, V.I. Glotov, V.V. Strelchuk*

335-339

**Effective polycrystalline sensor of ultraviolet radiation**

*S.Yu. Pavelets, Yu.N. Bobrenko, T.V. Semikina, K.B. Krulikovska, G.I. Sheremetova, B.S. Atdaev, M.V. Yaroshenko*

340-343

**$I^{127}$  NQR spectra of  $Pb_{1-x}Cd_xI_2$  and  $(BiI_3)_{(1-x)}(PbI_2)_x$  of mixed layered semiconductors**

*I.G. Vertegel, E.D. Chesnokov, O.I. Ovcharenko, L.S. Ivanova, Yu.P. Gnatenko, I.I. Vertegel*

344-348

**Nanograin boundaries and silicon carbide photoluminescence**

*S.I. Vlaskina, G.N. Mishinova, V.I. Vlaskin, V.E. Rodionov, G.S. Svechnikov*

349-354

**Quantitative Optical Trapping and Optical Manipulation of Micro Sized Objects**

*Rania Sayed*

355-361

**Modeling of X-ray rocking curves for layers after two-stage ion-implantation**

*O.I. Liubchenko, V.P. Kladko, O.Yo. Gudymenko*

362-368

**Enhancing sensitivity of SPR sensors using nanostructured Au chips coated with functional plasma polymer nanofilms**

*I.Z. Indutnyi, Yu.V. Ushenin, D. Hegemann, M. Vandenbossche, V.I. Myn'ko, P.E. Shepeliavii, M.V. Lukaniuk, P.M. Lytvyn, R.V. Khrystosenko*

369-374

**Structure and Raman spectra of  $(Cu_6PS_5I)_{1-x}(Cu_7PS_6)_x$  mixed crystals**

*I.P. Studenyak, M.M. Luchynets, V.Yu. Izai, A.I. Pogodin, O.P. Kokhan, Yu.M. Azhniuk, D.R.T. Zahn*

375-381

**The influence of the guest cavitations loading degree in fractal nanohybrids**

**$GaSe(\beta\text{-cyclodextrin}(FeSO_4))$  on the current passing and polarization processes. The giant "battery spin" effect at room temperature.**

*F.O. Ivashchyshyn, I.I. Grygorchak, O.I. Hryhorchak*

382

**Publication Ethics and Publication Malpractice Statement**

383

Contents