

E. K. ARUSHANOV

PUBLICATIONS

in refereed journals and full paper published in refereed conference proceedings

1. S. Levchenko, R. Caballero, L. Dermenji, E.V. Telesh, I.A. Victorov, J.M. Merino, **E. Arushanov**, M. Leon, I.V. Bodnard, Preparation and optical characterization of $\text{Cu}_2\text{ZnGeSe}_4$ thin films. *Opt. Mater.* 2015, **40**, 76-80.
2. Serghei Levchenko, Alexandr Nateprov, Victor Kravtsov, Maxim Guc, Alejandro Pérez-Rodríguez, Victor Izquierdo-Roca, Xavier Fontané, **Ernest Arushanov**, Structural study and Raman scattering analysis of $\text{Cu}_2\text{ZnSiTe}_4$ bulk crystals. *Opt. Express* 2014, **22**, A1936-A1943.
3. M. León, S. Levchenko, R. Serna, I. V. Bodnar, A. Nateprov, M. Guc, G. Gurieva, N. Lopez, J.M. Merino, R. Caballero, S. Schorr, A. Perez-Rodriguez, **E. Arushanov**, Spectroscopic ellipsometry study of $\text{Cu}_2\text{ZnSnSe}_4$ bulk crystals. *Appl. Phys. Lett.* 2014, **105**, 061909/4.
4. M. Guc, A. P. Litvinchuk, S. Levchenko, V. Izquierdo-Roca, X. Fontané, M. Ya. Valakh, **E. Arushanov**, A. Pérez-Rodríguez, Optical phonons in wurtzstannite $\text{Cu}_2\text{ZnGeS}_4$ semiconductor: polarized Raman spectroscopy and first principle calculations. *Phys. Rev. B* 2014, **89**, 205205/7.
5. M. Guc, S. Levchenko, L. Dermenji, G. Gurieva, S. Schorr, N.N. Syrбу, **E. Arushanov**, Excitonic and band-band transitions of $\text{Cu}_2\text{ZnSiS}_4$ determined from reflectivity spectra. *Sol. Stat. Commun.* 2014, **190**, 44-48.
6. M. Guć, K.G. Lisunov, E. Hajdeu, S. Levchenko, V. Ursaki, **E. Arushanov**, Variable-range hopping conductivity in $\text{Cu}_2\text{ZnGeSe}_4$ single crystals. *Sol. Energ. Mater. Sol. Cells* 2014, **127**, 87-91.
7. M. Guc, R. Caballero, K.G. Lisunov, N. López, **E. Arushanov**, J.M. Merino, M. León, Disorder and variable-range hopping conductivity in $\text{Cu}_2\text{ZnSnS}_4$ thin films prepared by flash evaporation and post-thermal treatment. *J. Alloy Compd.* 2014, **596**, 140-144.
8. M. Guc, S. Levchenko, L. Dermenji, G. Gurieva, S. Schorr, N.N. Syrбу, **E. Arushanov**, Exciton spectra and energy band structure of $\text{Cu}_2\text{ZnSiSe}_4$. *J. Alloy Compd.* 2014, **587**, 393-397.
9. **E. Arushanov**, S. Levchenko, G. Fuchs, S.-L. Drechsler, Scaling of the temperature dependent resistivity in 111 iron-pnictide superconductors. *J. Supercond. Nov. Magn.* 2013, **26**, 2727-2734.
10. M. Guc, V. Izquierdo-Roca, A. Pérez Rodríguez, G. Gurieva, S. Levchenko, S. Schorr, **E. Arushanov**, Raman spectra of wurtzstannite quaternary compounds. *Phys. Stat. Sol. C* 2013, **10**, 1075-1078.
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12. M. Guc, S. Levchenko, V. Izquierdo-Roca, X. Fontane, **E. Arushanov**, A. Pérez Rodríguez, Polarized Raman scattering analysis of $\text{Cu}_2\text{ZnSnSe}_4$ and $\text{Cu}_2\text{ZnGeSe}_4$ single crystals. *J. Appl. Phys.* 2013, **114**, 193514/1-9.
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15. M. León, S. Levchenko, R. Serna, A. Nateprov, G. Gurieva, J. M. Merino, S. Schorr, **E. Arushanov**, Spectroscopic ellipsometry study of $\text{Cu}_2\text{ZnGeSe}_4$ and $\text{Cu}_2\text{ZnSiSe}_4$ crystals. *Mater Chem Phys* 2013, **141**, 58-62.
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