

E. K. ARUSHANOV

PUBLICATIONS

in refereed journals and full paper published in refereed conference proceedings

1. S. Lehmann^{*, 1}, D. Fuertes Marrón², M. Tovar¹, Y. Tomm¹, C. Wolf¹, S. Schorr³, T. Schedel-Niedrig¹, **E. Arushanov**⁴, and M. Ch. Lux-Steine, A structural study on the CuGaSe₂-related copper-poor materials CuGa₃Se₅ and CuGa₅Se₈: thin-film vs. bulk material, *Phys. Status Solidi A*, 1-4 (2009) / DOI 10.1002/pssa.200881221
2. G. Fuchs, S.-L. Drechsler, N. Kozlova, G. Behr, K. Nenkov, A. Köler, **E. Arushanov** et al., Orbital and spin effects for the upper critical field in strongly disordered iron pnictide superconductors, *New J. Phys.* (submitted).
3. L. Kulyuk, M. Leon, **E. Arushanov**, G. Buinitskaya, C. Gherman, V. Mirovitskii, A. Nateprov, N. Ilyin, N. Sherstyuk, E. Mishina, Comparative study of Reflected Second Harmonic Generation in CuGa₃Se₅ and CuGa₅Se₈ Single Crystals, Abstracts, Int. Conf. Ternary Multinary Compounds, Berlin, 2008 (accepted).
4. S. Lehmann, D. Fuertes Marrón, R. Feyerherm, M. Reehuis, M. Tovar, J.M. Merino, M. León, J. Friedrich, Y. Tomm, C. Wolf, S. Schorr, T. Schedel-Niedrig, **E. Arushanov** and M.Ch. Lux-Steiner, Structural properties of chalcopyrite-related 1:3:5 copper-poor compounds and their influence on thin-film devices, MRS 2009, San Francisco, April 13-17, 2009
5. S. Doka-Yamigno, J. Hofstetter, H.-E. Mahnke¹, M. Ch. Lux-Steine¹, Th. Schedel-Niedrig, V. Koteski, **E. Arushanov**, Local Atomic and Electronic Structure of Germanium Impurities in Wider-Band Gap CuGaSe₂ Chalcopyrite, *Phys. Rev. B* (submitted).
6. M. León, R. Serna, G. Gurieva, S. Levchenko, E.J. Friedrich, J. M. Merino and **E. Arushanov**, Dielectric functions of CuIn_{1+2n}Se_{2+3n} and CuGa_{1+2n}Se_{2+3n} (n=2.5, 3.0, 3.5). Abstracts, Int. Conf. Ternary Multinary Compounds, Berlin, 2008 (accepted).
7. M. León, R. Serna, S. Levchenko, G. Gurieva, J. M. Merino, E.J. Friedrich, S. Lehmann, Th. Schedel-Niedrig, S. Schorr, M. Ch. Lux-Steiner and **E. Arushanov**, Characterisation of Cu(In_{1-x}Ga_x)₅Se₈ by spectroscopic ellipsometry. *Phys- Stat. Sol.* 2008 (submitted).
8. S. Doka, M. Rusu, V. Koteski, J. Hofstetter, **E. Arushanov**, H.-E. Mahnke, Th. Schedel-Niedrig, M. Ch. Lux-Steiner, Local Atomic Structure of Germanium Impurities in Wide-band Gap CuGaSe₂ Chalcopyrite, E-MRS, May 2008
9. **E. Arushanov**, K. G. Lisunov, H. Vinzelberg, G. Behr, J. Schumann, and O. Schmidt, Hopping conductivity in Mn- doped β -FeSi₂ single crystals, *J. Appl. Phys.* **104**, 053720/1-6 (2008).
10. M. León, R. Serna, S. Levchenko, G. Gurieva, J. M. Merino, E.J. Friedrich, and **E. Arushanov**, Analysis of the optical properties of Cu(In_{1-x}Ga_x)₃Se₅ crystals, *J. Appl. Phys.* **104**, 093507/1-5 (2008).
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12. M. León, R. Serna, S. Levchenko, A. Nicorici, J. M. Merino, E.J. Friedrich, and **E. Arushanov**, Dielectric functions and optical constants modelling for CuIn₃Se₅ and CuIn₅Se₈, *J. Appl. Phys.* **103**, 103503/1-5 (2008).
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