

List of publications:

13. E. Wachowicz, A Kiejna, Effect of impurities on structural, cohesive and magnetic properties of grain boundaries in γ -Fe, *Model. Sim. Mater. Sci. & Eng.* 19 (2011) 025001.
12. E. Wachowicz, T. Ossowski, A. Kiejna, Cohesive and magnetic properties of grain boundaries in bcc Fe with Cr additions, *Phys. Rev. B* 81 094104 (2010).
11. T. Ossowski, E. Wachowicz, A. Kiejna, Effect of iron additions on intergranular cohesion in chromium, *J. Phys. Condens. Matter* 21 485002 (2009).
10. A. Kiejna, E. Wachowicz, Segregation of Cr impurities at bcc iron surfaces: First-principles calculations, *Phys. Rev. B* 78, 113403 (2008).
9. E. Wachowicz, A. Kiejna, Effect of impurities on grain boundary cohesion in bcc iron, *Comp. Mater. Sci.* 43 (2008) 736.
8. S. Owczarek, E. Wachowicz, A. Kiejna, Monte Carlo study of oxidation of the $3C - SiC(001)3 \times 2$ surface, *Appl. Surf. Sci.* 254, 4352 (2008).
7. R. Rurali, E. Wachowicz, P. Hyldgaard, P. Ordejón, Band bending and quasi-2DEG in the metallized β -SiC(001)surface, *physica status solidi (RRL) - Rapid Research Letters* 2, (2008) 218-220.
6. E. Wachowicz, R. Rurali, P. Ordejón and P. Hyldgaard, First stages of the oxidation of the Si-rich $3C$ -SiC(001)surface, *Comp. Mater. Sci.* 33, 13 (2005).
5. A. Kiejna. T. Ossowski and E. Wachowicz, Alkali metals adsorption on the Mg(0001) surface, *Surf. Sci.*, 548 (2004) 22.
4. R. Rurali, E. Wachowicz, P. Ordejón, P. Godignon, J. Rebollo and P. Hyldgaard, First-Principles study of O adsorption at SiC surface, *Mater. Sci. Forum* 457-460, 1293 (2003).
3. E. Wachowicz and A. Kiejna, Bulk and surface properties of hexagonal-close-packed Be and Mg, *J. Phys.: Condens. Matter*, 13 (2001) 10767.
2. E. Wachowicz and A. Kiejna, Multilayer relaxations at the (0001) surface of Be and Mg, *Solid State Commun.*, 116 (2000) 17.
1. R. Błaszczyszyn, E. Wachowicz and M. Błaszczyszynowa, Interaction of Hydrogen with Vanadium Layers Preadsorbed on Tungsten Field Emitter Tip, *Acta Phys. Pol.*, 5-6 (1998) 763.