MIKKO HAKALA

PUBLICATIONS 15.11.2017

Double asterisk (**) and boldface mark the ten most important publications.

A1 Peer-reviewed scientific articles

- 1. ** Theoretical and experimental study of positron annihilation with core electrons in solids,
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- ** First-principles calculations of interstitial boron in silicon,
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- 11. Irradiation experiment revisited Stability and positron lifetime of large vacancy clusters in silicon,
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- 12. ** Native defects and self-diffusion in GaSb, M. Hakala, M. J. Puska and R. M. Nieminen, J. Appl. Phys. **91**, 4988 (2002). www
- Scattering effects in a positron lifetime beam line,
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- 34. Amorphous defect clusters of pure Si and type inversion in Si detectors, E. Holmström, K. Nordlund and M. Hakala, Phys. Rev. B **82**, 104111 (2010).
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- 71. ** First principles modelling of perovskite solar cells based on TiO₂ and Al₂O₃: Stability and Interfacial Electronic Structure,
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- 73. ** Hydrogen adsorption on doped MoS2 nanostructures, M. Hakala, R. Kronberg and K. Laasonen, Sci. Rep. 7, 15243 (2017) www

B3 Non-refereed scientific articles

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E1 Publications intended for the general public

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- 9. Ethanol-water structures at the microscopic level studied by X-ray Compton scattering: extreme sensitivity to geometries, M. Hakala, I. Juurinen and K. Nakahara, SPring-8 Research Frontiers 2011, Japan.
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G Theses

- 1. Master's thesis: Computational Scheme for Core-Electron Annihilation in Solids, Helsinki University of Technology (1996)
- 2. Doctoral dissertation: Defect Complexes in Silicon: Electronic Structures and Positron Annihilation, Helsinki University of Technology (2001)