

Publikacije Laboratorija za transportna mjerenja

Znanstveni radovi:

1. **R. Peter, A. Omerzu, I. Kavre Piltaver, R. Speranza, K. Salamon, M. Podlogar, K. Velican, M. Percic, M. Petravic**, *Large enhancement of visible light photocatalytic efficiency of ZnO films doped in-situ by copper during atomic layer deposition growth*, Ceram. Int. 49 (22), 35229-35238.
2. **D. Jardas, A. Omerzu, R. Peter, I. Kavre Piltaver, M. Petravić**, *Photocatalytic Activity Under UV and Solar Illumination of Thin ZnO Films Grown by Atomic Layer Deposition*, Proceedings of the 3rd International Congress on Advanced Materials Sciences and Engineering, AMSE 2022.
3. **A. Omerzu, R. Peter, D. Jardas, I. Turel, K. Salamon, M. Podlogar, D. Vengust, I. Jelovica Badovinac, I. Kavre Piltaver, M. Petravic**, *Large enhancement of photocatalytic activity in ZnO thin films grown by plasma-enhanced atomic layer deposition*, Surf. Interfaces 23 (2021) 100984.
4. **R. Peter, K. Salamon, A. Omerzu, J. Grenzer, I. Jelovica Badovinac, I. Saric, M. Petravic**, *Role of Hydrogen-Related Defects in Photocatalytic Activity of ZnO Films Grown by Atomic Layer Deposition*, J. Phys. Chem. C 124 (2020), 8861
5. **I. Jelovica Badovinac, R. Peter, A. Omerzu, K. Salamon, I. Šarić, A. Samaržija, M. Perčić, I. Kavre Piltaver, G. Ambrožić, M. Petravić**, *Grain size effect on photocatalytic activity of TiO₂ thin films grown by atomic layer deposition*, Thin Solid Films 709 (2020) 138215.
6. **A. Omerzu, I. Saric, I. Kavre Piltaver, M. Petravic, T. Kapun, J. Zule, S. Stifter, K. Salamon**, *Prevention of spontaneous combustion of cellulose with a thin protective Al₂O₃ coating formed by atomic layer deposition*, Surf. Coat. Technol. 333 (2018) 81.
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8. **M. Strojnik, A. Omerzu, A. Majkić, P. M. Mihailovic, J. Lukan, G. Bavdek, G. Bratina, D. Cvetko, P. Topolovsek, D. Mihailovic**: *Valence band and energy gap of MoSI molecular wires*, Langmuir 27 (2011) 4296.
9. **A. Omerzu, B. Anzelak, I. Turel, J. Strancar, A. Potocnik, D. Arcon, I. Arcon, D. Mihailović, H. Matsui**: *Strong correlations in highly electron-doped Zn(II)-DNA complexes*, Phys. Rev. Lett. 104 (2010), 156804.
10. **A. Omerzu, M. Licer, T. Mertelj, V. V. Kabanov, D. Mihailovic**: *Hole interactions with molecular vibrations on DNA*, Phys. Rev. Lett 93 (2004) 218101.
11. **T. Vuletic, D. Herman, N. Biskup, M. Pinteric, A. Omerzu, S. Tomic, M. Nagasawa**: *Single-particle and spin-density wave charge dynamics in (TMTSF)₂PF₆ and (TMTSF)₂AsF₆: A comparative overview*, J. Phys. IV 9 (1999) 275.

12. **A. Omerzu**, D. Mihailovic, N. Biskup, O. Milat, S. Tomic: *Electrical transport measurements on TDAE-C-60 single crystals*, Synthetic Met. 85 (1997) 1723.
13. **A. Omerzu**, D. Mihailovic, S. Tomic, O. Milat, N. Biskup: *Electrical conductivity in dynamically orientationally disordered systems: ac and dc measurements in ferromagnetic single crystals of TDAE-C-60*, Phys. Rev. Lett. 77 (1996) 2045.

Diplomski radovi:

1. Karlo Veličan: *Mjerenje elektronskih transportnih svojstava tankih filmova cinkovog oksida sintetiziranih tehnikom depozicije atomskih slojeva*, Diplomski rad, 2018.
2. Virna Kisiček: *Fotokatalitička svojstva tankih filmova cinkovog oksida narastanim na poroznim strukturama tehnikom depozicije atomskih slojeva*, Diplomski rad, 2019.
3. Patrick Seleš: *Transportna svojstva tankih filmova cinkovog oksida*, Diplomski rad, 2020.