

Milorad Šiljegović

Personal data

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Education

1. Faculty of Physics, University of Belgrade, Belgrade, Serbia, 1996, BSc
2. Faculty of Physics, University of Belgrade, Belgrade, Serbia, 2005, MSc
3. Faculty of Physics, University of Belgrade, Belgrade, Serbia, 2011, PhD

Research activities

1. 2001-2005: Optimization of extraction system of electron cyclotron resonance ion sources
2. 2006-2011 and continuing: Interaction of low energy ions with polymers

Up to ten most important publications

1. **M. Šiljegović**, Z. M. Kačarević-Popović, A. N. Krklješ, Z. Stojanović and Z. M. Jovanović, *Effect of N^{4+} and C^{4+} ion beam bombardment on the optical and structural characteristics of ethylene-norbornene copolymer (TOPAS)*, Nucl. Instr. Meth. Phys. Res. B 269 (2011) 708-715.
2. **M. Šiljegović**, Z. M. Kačarević-Popović, N. Bibić, Z. M. Jovanović, S. Maletić, M. Stehakovsky and A. N. Krklješ, *Optical and dielectric properties of fluorinated ethylene propylene and tetrafluoroethylene-perfluoro(alkoxy vinyl ether) copolymer films modified by low energy N^{4+} and C^{4+} ion beams*, Radiat. Phys. Chem. 80 (2011) 1378-1385.
3. J. Grbović-Novaković, Lj. Matović, M. Drvendžija, N. Novaković, D. Rajnović, **M. Šiljegović**, Z. Kačarević-Popović, S. Milovanović and N. Ivanović, *Changes of hydrogen storage properties of MgH_2 induced by heavy ion irradiation*, International Journal of Hydrogen Energy 33 (2008) 1876-1879.
4. A. Umićević, B. Cekić, V. Ivanovski, V. Koteski, J. Belošević-Čavor, **M. Šiljegović** and S. Pavlović, *Magnetic dipole and electrical quadrupole interactions of ^{181}Ta probe in Ni-Hf alloy*, Journal of Alloys and Compounds 475 (2009) 38-41.
5. N. Bibić, V. Milinović, M. Milosavljević, F. Schrempel, **M. Šiljegović**, and K.-P. Lieb, *Effects of the Ar ions pre-amorphization of Si substrate on interface mixing of Fe/Si bilayers*, Journal of Microscopy 232 (2008) 539-541.
6. V. Milinović, N. Bibić, S. Dhar, **M. Šiljegović**, P. Schaaf and K. P. Lieb, *Nitrogen irradiation of Fe/Si bilayers: nitride versus silicide phase formation*, Applied Physics A: Materials Science & Processing, 79 (2004) 2093-2097.
7. N. Bibić, K. P. Lieb, V. Milinović, M. Mitrić, **M. Šiljegović** and K. Zhang, *Xenon-ion irradiation of Co/Si bilayers: effects of interface structure and ion energy*, Nuclear Instruments and Methods in Physics Research B 266 (2008) 2498-2502.
8. Z. Kačarević-Popović, N. Tjapkin, **M. Šiljegović** and I. Draganić, *Surface modification of ethylene-norbornene copolymer by irradiation with N^{4+} ion beams*, Nuclear Instruments and Methods in Physics Research B 236 (2005) 594-598.

9. **M. Šiljegović**, A. Dobrosavljević, I. Draganić, B. Čizmić and G. Jelić, *Design of the channel for irradiation of materials with highly charged ion beams obtained from the mVINIS Ion Source*, Review of Scientific Instruments 77 (2006) 03A313-1-2.
10. **M. Šiljegović**, A. Dobrosavljević, and P. Beličev, *Optimization of the mVINIS ion source extraction system*, Review of Scientific Instruments 75 (2004) 1506 – 1507.