

#### A. Articole publicate în reviste cotate ISI:

1. M. Neagu, M. Lozovan, M. Dobromir, **L. Velicu**, C. Hison, *Permalloy Thin Films Obtained by Pulsed Laser Deposition: Magnetic and Galvanomagnetic Behaviour*, Journal of Optoelectronics and Advanced Materials **10** (2008) 632-634.
2. M. Dobromir, M. Neagu, H. Chiriac, C. Agheorghiesei, A. Bulai, **L. Velicu**, *Ellipsometric investigation of Fe-based amorphous thin films*, Optoelectronics and Advanced Materials - Rapid Communications **4** (2010) 1667-1669.
3. **I. L. Velicu**, M. Neagu, H. Chiriac, V. Tiron, M. Dobromir, *Structural and Magnetic Properties of FeCuNbSiB Thin Films Deposited by HiPIMS*, IEEE Transactions on Magnetics **48** (2012) 1336-1339.
4. **I. L. Velicu**, M. Neagu, M. Dobromir, D. Luca, N. Lupu, H. Chiriac, F. Borza, *Structural, Magnetic and Magnetoelastic Behaviour of FeCuNbSiB Thin Films*, Sensor Letters **10** (2012) 902-905.
5. **I. L. Velicu**, M. Kowalczyk, M. Neagu, V. Tiron, H. Chiriac, J. Ferenc, *FINEMET-type thin films deposited by HiPIMS: influence of growth and annealing conditions on the magnetic behaviour*, Materials Science & Engineering B **178** (2013) 1329-1333.
6. **I. L. Velicu**, M. Neagu, L. Costinescu, D. Munteanu, E. P. Koumoulos, C. A. Charitidis, *Nanomechanical Properties of amorphous FeCuNbSiB Thin Films Deposited by HiPIMS*, Sensors Letters **11** (2013) 1925-1930.
7. **I. L. Velicu**, V. Tiron, G. Popa, *Dynamics of the fast - HiPIMS discharge during FINEMET - type films deposition*, Surface and Coatings Technology (in press) <http://dx.doi.org/10.1016/j.surfcoat.2014.03.015>.
8. V. Tiron, **I. L. Velicu**, F. Ghiorghiu, G. Popa, *The effect of the additional magnetic field and gas pressure on the sheath region of a high power impulse magnetron sputtering discharge*, Romanian Reports in Physics (accepted for publication).
9. **I.-L. Velicu**, V. Tiron, *On the transport phenomena in highly ionized pulsed plasma during FeCuNbSiB thin film deposition process*, Journal of Optoelectronics and Advanced Materials (submitted).
10. **I.-L. Velicu**, M. Neagu, V. Tiron, *Fe<sub>73.5</sub>Cu<sub>1</sub>Nb<sub>3</sub>Si<sub>15.5</sub>B<sub>7</sub> Thin Films Deposited by HiPIMS: Magnetic and Magnetostrictive Behaviour*, Journal of Superconductivity and Novel Magnetism (submitted).
11. **I.-L. Velicu**, M. Neagu, L. Costinescu, E. Hristoforou, V. Tiron, D. Munteanu, *Nanoindentation Measurement of Hardness and Young's Modulus of Amorphous and Nanocrystalline FeCuNbSiB Thin Films*, IEEE Transactions on Magnetics (submitted).

#### B. Articole publicate în alte reviste:

1. D. Mihăilescu, C. Munteanu, C. Aniculăesei, **L. Velicu**, *Backscattering Coefficients For 8-32 KeV Electrons: A Monte Carlo Investigation*, Annals of West University, Timișoara, Physics Series **25** (2008).
2. M. Dobromir, **L. I. Velicu**, M. Neagu, H. Chiriac, *FeCuNbSiB Thin Films Deposited by Pulsed Laser Deposition: Structural and Magnetic Properties*, Proceedings of International Conference Nanomaterials: Application & Properties **2** (2013) 01NTF09(3).
3. V. Tiron, C. Vitelaru, **I.-L. Velicu**, F. Ghiorghiu, G. Popa, *On transport phenomena in high power pulse unbalanced magnetron discharge with additional external magnetic field*, Proceedings of The XXXI International Conference on Phenomena in Ionized Gases – ICPIG.