



Name: POP MARIANA

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Profession: Mechanical Engineer

Position: Associate professor

Studies: Technical University of Cluj-Napoca, Faculty Mechanics, Speciality:
Technological Equipment, 1989

PhD Thesis: Researches regarding dieless drawing process, 2000

Teaching activity:

- Mechanics of plastic deformation and fracture of metals
- Materials processing technology
- Competitive development of products

Fields of competence:

- Non conventional processes of plastic deformation
- Mathematical modeling and simulation of plastic deformation processes.
- Advanced materials (Powder metallurgy, Superconductors).

Specializations:

- University of Nottingham 1992, 1997
- Universidad Carlos III, Madrid, 1998

Scientific activity: 50 scientific papers in the fields of powder metallurgy, plastic deformation of metals, surface engineering, concurrent engineering and 4 university courses.

Selective Publications

M.Pop , D.Radulescu and A.V.Pop“Effect of nanodefects induced by 4f elements on dissipative processes in sintered superconductors” Book of abstracts, pg.81, 4th Int.Conference MATEHN, 2006 Sept 21-23 Cluj-Napoca, Romania.

A.V.Pop,G.Ilonca, **Pop M.**, D.Radulescu, Nanoparticulate precipitates in Y:123 thin films”, J.Optoelectronics and Advanced Materials 9, no.3, 554-556(2007).

A.V.Pop , I.Matei and **M.Pop** Effect of partial substitution of Ca by La on intergranular processes in (Bi,Pb):2223 superconductors, J.Optoelectronics and Advanced Materials 10, no.9(2008) p.2451-245.

4. A.V.Pop¹⁾,D.Marconi¹⁾, **M.Pop**³⁾J.M.LeBreton²⁾, The study of codoping effect by 3d elements in the Cu position of (Bi,Pb):2223 superconductor by using X-ray diffraction and Mössbauer spectroscopy , Int.Conf.NANOSPEC, Sept.7-10, 2008, Cluj-Napoca, Book of abstract pg.119

5. A.V.Pop^{1*)},D.Marconi¹⁾ , **M.Pop**²⁾ , The influence of partial substitution of Ca by Sm on dissipation processes in $(\text{Bi}_{1.6} \text{Pb}_{0.4})(\text{Sr}_{1.8} \text{Ba}_{0.2})(\text{Ca}_{1-x} \text{Sm}_x)_2 \text{Cu}_3 \text{O}_y$ superconductor LT25 Amsterdam, August 6-13,2008, Amsterdam, Netherlands , Abstract book,PB-Fr143, pg.94.

6. **Pop M.**, Neag A., Dimensional precision in nonconventional processes of plastic deformation, Metalurgia International (2009), Nr.7 Special Issue, pg. 24.

7. **Pop M.**, Neag, A., Aspects regarding the constitutive equations for FEM analysis of advanced metal forming processes, Analele Univ. Dunarea de Jos , nr.2, 2011.