

LISTĂ LUCRĂRI PUBLICATE**Articole publicate în reviste cotate de ISI Web Science**

- Ri 1 **MIHALACHE Elena**, PRICOP Bogdan, COMĂNECI Radu Ioachim, SURU Marius-Gabriel, LOHAN Nicoleta-Monica, MOCANU Mihai, ÖZKAL Burak and BUJOREANU Leandru-Gheorghe, *Structural Effects of Thermomechanical Processing on the Static and Dynamic Responses of Powder Metallurgy Fe-Mn-Si Based Shape Memory Alloys*, Advances in Science and Technology, Vol. 97, 2017, pp 153-158
- Ri 2 **E. Mihalache**, B. Pricop, N.-M. Lohan, M.-G. Suru, B. Ozkal, L.-G. Bujoreanu, Internal friction evaluation in mechanically alloyed-powder metallurgy Fe-Mn-Si-Cr-Ni shape memory alloys, International Journal of Modern Manufacturing Technologies, Vol. VIII, No. 1/ 2016, pp 61-68, ISSN 2067–3604, <http://modtech.ro/international-journal/international-journal-ijmmt.php?volume=vol7no12015> indexed Scopus, INSPEC, Index Copernicus, Google Scholar
- Ri 3 Marius Gabriel Suru, Nicoleta Monica Lohan, Bogdan Pricop, **Elena Mihalache**, Mihai Mocanu, Leandru-Gheorghe, Bujoreanu, *Precipitation Effects on the Martensitic Transformation in a CuAlNi Shape Memory Alloy*, Journal of Materials Engineering and Performance, 25(4), 2016, pp. 1562–1569, DOI: 10.1007/s11665-016-1981-z, **IMPACT FACTOR on 2015: 1,094**
- Ri 4 I.-P. Spiridon, N.-M. Lohan, M.-G. Suru, **E. Mihalache**, L.-G. Bujoreanu, and B. Pricop, *A study of free recovery in a Fe – Mn – Si – Cr shape memory alloy*, Metal Science and Heat Treatment, Vol. 57, Nos. 9 – 10, January, 2016, 548-552, ISSN 0026-0673, DOI 10.1007/s11041-016-9920-z, **IMPACT FACTOR on 2015: 0,254**
- Ri 5 Bogdan Pricop, **Elena Mihalache**, Monica-Nicoleta Lohan, Bogdan Istrate, Mihai Mocanu, Burak Ozkal, Leandru-Gheorghe Bujoreanu, *Powder metallurgy and mechanical alloying effects on the formation of thermally induced martensite in an FeMnSiCrNi SMA*, ESOMAT 2015, MATEC Web of Conferences, 33, 04004 (2015), DOI: 10.1051/ mateconf/ 20153304004
- Ri 6 **Elena Mihalache**, Bogdan Pricop, Marius-Gabriel Suru, Nicoleta Monica Lohan, Radu Ioachim Comăneci, Bogdan Istrate, Burak Özkal and Leandru-Gheorghe Bujoreanu, *Factors influencing martensite transitions in Fe-based shape memory alloys*, ESOMAT 2015, MATEC Web of Conferences, 33, 04002 (2015), DOI: 10.1051/ mateconf/ 20153304002
- Ri 7 Leandru-Gheorghe Bujoreanu, Viorel Goanță, Nicanor Cimpoeșu, Carmela Gurău, Marius-Gabriel Suru, **Elena Mihalache** and Gheorghe Gurău, *Hardness-gradient reversion in FeMnSiCr shape memory alloy modules produced by high-speed high pressure torsion*, ESOMAT 2015, MATEC Web of Conferences, 33, 04001 (2015), DOI: 10.1051/ mateconf/ 20153304001
- Ri 8 M.G. Suru, C. Moroșanu, R.I. Comăneci, **E. Mihalache**, B. Pricop, N.M. Lohan, C. Baci, L.G. Bujoreanu, *Comparative Evolution of Surface Relieves of Stress-Induced Martensite Plates in Shape Memory Alloys with Different Crystalline Structures*, Materials Today: Proceedings, 2(S3), 2015, pp. S957-S960, ISSN: 2214-7853, d.o.i. 10.1016/j.matpr.2015.07.440
- Ri 9 B. Pricop, U. Söyler, B. Özkal, M.G. Suru, N.M. Lohan, R.I. Comăneci, N. Cimpoeșu, V. Mușat, G. Gurău, B. Istrate, **E. Mihalache**, L.G. Bujoreanu, *A Study of Martensite Formation in Powder Metallurgy Fe-Mn-Si-Cr-Ni Shape Memory Alloys*, Materials Today: Proceedings, 2(S3), 2015, pp. S789 – S792, ISSN: 2214-7853, d.o.i. 10.1016/j.matpr.2015.07.400
- Ri 10 N. M. LOHAN, **E. MIHALACHE**, B. PRICOP, M.G. SURU, L.G. BUJOREANU, *A study of R-phase transition and temperature memory effect in a commercial Nitinol wire*, Journal of Optoelectronics and Advanced Materials, 17(9-10), 2015, pp. 1431-1436, ISSN 1454-4164, **IMPACT FACTOR: 0,383**
- Ri 11 **E. MIHALACHE**, F. BORZA, N. LUPU, N. M. LOHAN, B. PRICOP, M.-G. SURU, L.-G. BUJOREANU, *Thermomechanical processing effects on the martensitic transformation in Fe-based SMAs*, Journal of Optoelectronics and Advanced Materials, 17(9-10), 2015, pp. 1344-1347, ISSN 1454-4164, **IMPACT FACTOR: 0,383**
- Ri 12 L G Bujoreanu, R I Comăneci, G Gurău, N M Lohan, M G Suru, B Pricop, V Goanță, V Mușat, B Istrate & **E Mihalache**, *Thermomechanical training effects of multifunctional modules processed by high-speed high pressure torsion*, Indian Journal of Engineering and Materials Sciences, Vol 22(4), 2015, pp. 367-375, ISSN 0971-4588, **IMPACT FACTOR: 0,456**
- Ri 13 M.-G. Suru, N.M. Lohan, B. Pricop, I.P. Spiridon, **E. Mihalache**, R.I. Comaneci and L.-G. Bujoreanu, *Structural effects of high-temperature plastic deformation process on martensite plate morphology in a Fe-Mn-Si-Cr SMA*, International Journal of Materials and Product Technology, Vol. 50, Nos. 3/4, 2015, pp. 276-288, ISSN 0268-1900, **IMPACT FACTOR: 0,365**
- Ri 14 A. L. PARASCHIV, F. BORZA, M.-G. SURU, B. PRICOP, I. P. SPIRIDON, **E. MIHALACHE**, L.-G. BUJOREANU, *Chemical composition and processing effects on the pseudoelastic response of α' ferromagnetic martensite*, Optoelectronics and Advanced Materials-Rapid Communications, Vol. 7, No. 11-12, 2013, p. 881 - 886, ISSN 1842-6573, **IMPACT FACTOR: 0, 402**

Articole publicate în reviste cotate de BDI

Rn 1 **Elena MIHALACHE**, Monica-Nicoleta LOHAN, Bogdan PRICOP, Leandru-Gheorghe BUJOREANU, Marius-Gabriel SURU, *COMPARATIVE CHARACTERISTICS OF MARTENSITE AND BAINITE IN Cu-BASED SMAS*, THE ANNALS OF "DUNAREA DE JOS" UNIVERSITY OF GALATI. FASCICLE IX. METALLURGY AND MATERIALS SCIENCE, NO. 3 – 2014, ISSN 1453 – 083X, pp. 36-40

Rn 2 Bogdan PRICOP, Nicoleta Monica LOHAN, Firuța BORZA, Nicoleta LUPU, Marius-Gabriel SURU, **Elena MIHALACHE**, Radu Ioachim COMĂNECI, Leandru-Gheorghe BUJOREANU, *STRUCTURAL CHANGES ASSOCIATED WITH THE PSEUDOELASTIC RESPONSE OF Fe-BASED SHAPE MEMORY ALLOYS*, THE ANNALS OF "DUNAREA DE JOS" UNIVERSITY OF GALATI. FASCICLE IX. METALLURGY AND MATERIALS SCIENCE, NO. 3 – 2014, ISSN 1453 – 083X, pp. 20-25

Articole publicate în volumele conferințelor internaționale cotate de ISI Web Of Knowledge.

Vi1. Leandru-Gheorghe BUJOREANU, Gheorghe GURAU, Radu-Ioachim COMĂNECI, Burak OZKAL, **Elena MIHALACHE**, *Particular aspects of constrained recovery shape memory effect in a severely plastic deformed Fe-Mn-Si-Cr alloy*, 17th International Metallurgy & Materials, IMMC 2014, Istanbul, Turkey, 11-13 September, 2014, pp. 434-441

Articole prezentate în conferințe naționale și internaționale

E1. **Elena Mihalache**, Bogdan Pricop, Radu Ioachim Comăneci, Marius-Gabriel Suru, Nicoleta-Monica Lohan, Mihai Mocanu, Burak Ozkal and Leandru-Gheorghe Bujoreanu, *Structural Effects of Thermomechanical Processing on the Static and Dynamic Responses of Powder Metallurgy Fe-Mn-Si Based Shape Memory Alloys*, oral presentation at 5th International Conference "Smart and Multifunctional Materials, Structures and Systems", **CIMTEC 2016**, 5-9 June, Perugia, Italy

E2. Leandru-Gheorghe Bujoreanu, Viorel Goanță, Nicanor Cimpoeșu, Carmela Gurău, Marius-Gabriel Suru, **Elena Mihalache** and Gheorghe Gurău, *Hardness-gradient reversion in FeMnSiCr shape memory alloy modules produced by high-speed high pressure torsion*, poster presentation at European Symposium on Martensitic Transformations, **ESOMAT 2015**, 14-18 September, Antwerp, Belgium

E3. Bogdan Pricop, **Elena Mihalache**, Monica-Nicoleta Lohan, Bogdan Istrate, Mihai Mocanu, Burak Ozkal, Leandru-Gheorghe Bujoreanu, *Powder metallurgy and mechanical alloying effects on the formation of thermally induced martensite in an FeMnSiCrNi SMA*, poster presentation at European Symposium on Martensitic Transformations, **ESOMAT 2015**, 14-18 September, Antwerp, Belgium

E4. N.M. Lohan, B. Pricop, M. G. Suru, **E. Mihalache**, L.G. Bujoreanu, *Thermal analysis of processing effects in CuZnAl SMAs*, poster presentation at European Symposium on Martensitic Transformations, **ESOMAT 2015**, 14-18 September, Antwerp, Belgium

E5. **Elena Mihalache**, Bogdan Pricop, Marius-Gabriel Suru, Nicoleta-Monica Lohan, Radu Ioachim Comăneci, Bogdan Istrate, Burak Ozkal and Leandru-Gheorghe Bujoreanu, *Factors influencing martensite transitions in Fe-based shape memory alloys*, oral presentation in the Section Fe-based alloys, 15.09.2015, European Symposium on Martensitic Transformations, **ESOMAT 2015**, 14-18 September, Antwerp, Belgium

E6. M.-G. Suru, N.-M. Lohan, **E. Mihalache**, B. Pricop, R.I. Comăneci, C. Baciuc, L.-G. Bujoreanu, *AFM Evaluation of Pre-straining Degree Effects on the Dimensions of Stress Induced Martensite Plates in Fe-Mn-Si Based SMAs*, poster presentation at High Temperature Shape Memory Alloys, **HTSMAs 2015**, 5 - 8 May 2015, Wildbad Kreuth, Bayern, Germany

E7. N. Cimpoeșu, **E. Mihalache**, B. Pricop, N.-M. Lohan, M.G. Suru, R.I. Comăneci, B. Özkal, L.G. Bujoreanu, *Structural-Morphological Fluctuations Induced by Thermomechanical Processing in a FeMnSi-based Shape Memory Alloy*, poster presentation at High Temperature Shape Memory Alloys, **HTSMAs 2015**, 5 - 8 May 2015, Wildbad Kreuth, Bayern, Germany

E8. **E. Mihalache**, B. Pricop, N.-M. Lohan, M.-G. Suru, B. Ozkal, L.-G. Bujoreanu, *Dynamic-Mechanical Analysis of Mechanically Alloyed Fe-Mn-Si-Cr-Ni Shape Memory Alloy*, oral presentation at High Temperature Shape Memory Alloys, **HTSMAs 2015**, 5 - 8 May 2015, Wildbad Kreuth, Bayern, Germany

E9. **E. MIHALACHE**, F. BORZA, N. LUPU, N. M. LOHAN, B. PRICOP, M.-G. SURU, L.-G. BUJOREANU, *Thermomechanical processing effects on the martensitic transformation in Fe-based SMAs*, poster presentation at **BRAMAT 2015**, 5 – 7 March 2015, Brasov, Romania

E10. N. M. LOHAN, **E. MIHALACHE**, B. PRICOP, M.G. SURU, L.G. BUJOREANU, *A study of R-phase transition and temperature memory effect in a commercial Nitinol wire*, poster presentation at **BRAMAT 2015**, 5 – 7 March 2015, Brasov, Romania

E11. L.G. Bujoreanu, G. Gurău, R.I. Comăneci, B. Özkal, **E. Mihalache**, *Particular aspects of constrained recovery shape memory effect in a severely plastic deformed Fe-Mn-Si-Cr alloy*, oral presentation at 17th

International Metallurgy and Materials Congress **IMMC 2014**, 11-13 September 2014, Istanbul, Turkey
E12. L.G. Bujoreanu, R.I. Comănesci, G. Gurău, N.M.Lohan, M. G. Suru, B. Pricop, V. Goanță, V. Mușat, B. Istrate, **E. Mihalache**, Thermomechanical training effects of multifunctional modules, processed by high-speed high pressure torsion, when subjected to compression loading-unloading cycles, invited speaker at Modern Technologies in Industrial Engineering **ModTech 2014**, 13-15 July 2014, Gliwice, Poland
E13. M.-G. Suru, C. Moroșanu, R.-I. Comănesci, **E. Mihalache**, L.-G. Bujoreanu, *Comparative evolution of surface relieves of stress-induced martensite plates in shape memory alloys with different crystalline structures*, poster presentation at International Conference on Martensitic Transformations, **ICOMAT 2014**, July 6-11, 2014, Bilbao, Spain
E14. B. Pricop, U. Söyler, B. Özkal, M.G. Suru, N.M. Lohan, R.I. Comănesci, N. Cimpoeșu, V. Mușat, G. Gurău, B. Istrate, **E. Mihalache**, L.G. Bujoreanu, *A study of martensite formation in powder metallurgy Fe-Mn-Si-Cr-Ni shape memory alloys*, oral presentation at International Conference on Martensitic Transformations, **ICOMAT 2014**, July 6-11, 2014, Bilbao, Spain

PROIECTE DE CERCETARE BAZATE PE CONTRACT/ GRANT

Contracte de cercetare câștigate în competiții naționale

P1. Membru (L.G.Bujoreanu PROJECT MANAGER) Proiect de cercetare prin colaborare de tip PARTENERIATE.

Sistem modular de elemente multifuncționale cu deplasare auto-adaptivă / Modular system of multifunctional elements with self-adapting displacement (în România) contract nr. 144/ 2012, Cod PN-II-PT-PCCA-2011-3.1-0174