

LISTA DE LUCRĂRI**I. ACTIVITATEA DIDACTICĂ****I.1. Cărți/cursuri (capitole teoretice redactate) publicate în edituri recunoscute (Ca)**

Ca1 Rodinel Ardeleanu, **Leandru-Gheorghe Bujoreanu**, Gabriela Săcărescu, Liviu Săcărescu și Mihaela Simionescu, *Materiale nemetalice cu memoria formei. Structură-proprietăți-aplicații*, Editura tehnică, științifică și didactică CERMI, Iași, 219 pagini, 2007, ISBN 978-973-667-291-0

Ca2 M.Nicu, N.Bâlbă, **L.G.Bujoreanu**, S.Stanciu și F.Apostu, *Știința și ingineria materialelor. Vol. III Materiale moderne*. Ediția a-II-a; Editura ECOZONE, Iași, 188 pagini, 2006, ISBN Vol III: 973-7645-21-9

Ca3 **L.G.Bujoreanu** și C.Baciu, *Studiul materialelor. Teste și aplicații*, Editura tehnică, științifică și didactică CERMI, Iași, 198 pagini, 2003, ISBN 973-8188-69-5

Ca4 **L.G.Bujoreanu**, G.Roșescu și I.Avrăm, *Studiul materialelor din construcția de mașini*, Editura Științifică "Fundatia Metalurgia Română", București, 321 pagini;1998, ISBN 973-98314-5-1

Ca5 **L.G.Bujoreanu** și S.Stanciu, *Materiale cu memoria formei. Metode practice de analiză* Editura "Cermi", Iași, 144 pagini, 1998, ISBN 973-9378-28-5

Ca6 G.Calugaru, **L.G.Bujoreanu**, S.Stanciu, I.Hopulele, R.Căliman, O.L.Turcu și I.Apachiței *Memoria formei. Fenomene și aplicații în știința materialelor*, Editura „Plumb”, Bacău, 208 pagini, 1995, ISBN 973-9150-50-0

Ca7 G.Calugaru, I.Apachiței, R.Căliman, O.L.Turcu și **L.G.Bujoreanu**, *Materiale avansate. Pulberi metalice amorfe*, Editura "Plumb", Bacău, 218 pagini, 1995, ISBN 973-9150-49-7

I.2. Cărți/cursuri (capitole teoretice redactate) publicate pe plan local sau pe Web

Ca8. **L.G.Bujoreanu**, *Superaliaje. Note de curs*, 142 pagini

https://sim.tuiasi.ro/wp-content/uploads/2019/01/Note-de-curs-Superaliaje_2017-18.pdf

Ca9. **L.G.Bujoreanu**, *Materiale nemetalice cu memoria formei. Note de curs*, 169 pagini

https://sim.tuiasi.ro/wp-content/uploads/2019/01/MNMF_Note-de-curs_2018.pdf

Ca10. **L.G.Bujoreanu**, *Materiale Electro și Magnetoreologice. Note de curs*, 100 pagini

https://sim.tuiasi.ro/wp-content/uploads/2019/01/Note-de-curs-Materiale-ERMR_2017-18.pdf

I.3 Îndrumare publicate/ culegeri de probleme

I1 C.Baciu, C.Munteanu, I.Rusu, **L.G.Bujoreanu**, Maria Baciu și I.Apachiței *Îndrumar pentru laborator. Studiul metalelor, Vol. I*, Rotaprint, I.P.Iași, 186 pagini, 1992

II. CONTRIBUȚII ȘTIINȚIFICE LA DEZVOLTAREA DOMENIULUI**II.1 Cărți (capitole) de specialitate publicate în edituri din țară (recunoscute CNCISIS) sau din străinătate (Cb)**

Cb1 Nicoleta-Monica Lohan, **Leandru-Gheorghe Bujoreanu**, Development of experimental CuZnAl-based shape memory actuators, in: Research and Innovation in Advanced Engineering Materials, Editors: Makio Naito, Andrej Buchacz, Andrej Baier, Pavel Topala, Dumitru Nedelcu, ModTech Publishing House, Iași 2019, pp. 78-92, ISBN 978-606-93704-5-2

Cb2 M. Mocanu, E. Mihalache, B. Pricop, F. Borza, M. Grigoras, R.I.Comănesci, B. Ozkal, **L.G.Bujoreanu**, *The Influence of α' (bcc) Martensite on the Dynamic and Magnetic Response of Powder Metallurgy FeMnSiCrNi Shape Memory Alloys*, Proceedings of the International Conference on Martensitic Transformations: Chicago, A.P.Stebner, G.B.Olsen (Eds), The Minerals, Metals & Materials Series, 2018, pp. 99-108, ISBN 978-3-319-76967-4.

Cb3 **Leandru-Gheorghe Bujoreanu**, Bogdan Pricop, Nicoleta Monica Lohan, Marius-Gabriel Suru, Bogdan Istrate, *Chapter 7 Structural and Chemical Variations Induced by Thermomechanical Cycling in Shape Memory Actuators*, in: Frontiers in Materials Processing, Applications, Research and Technology, Select Proceedings of FiMPART 2015, Editors: Muruganant, M., Ali, Chirazi, Raj, Baldev, Springer Nature, Singapore, 2018, pp. ,63-74, ISBN 978-981-10-4818-0,

Cb4 **L.G.Bujoreanu**, *Formation of transitory bainite as a precursor of α -phase during tempering of martensitic Cu-Zn-Al SMAs*, in Encyclopedia of Materials Science Research, Volume 1, Editors: Batukhan B. Chinbat and Sora H. Mori, Nova Science Publishers 2012, pp. 263-283, ISBN 978-1-61209-954-5

Cb5 **L.G.Bujoreanu**, *Chapter 9. Formation of transitory bainite as a precursor of α -phase during tempering of mastensitic Cu-Zn-Al SMAs*, in Shape Memory Alloys: Manufacture, Properties and Applications, Editor H.R. Chen, Nova Science Publishers 2011, pp. 267-285, ISBN 978-1-60741-789-7

Cb6 R.Chelariu, **L.G.Bujoreanu**, și C.Roman, *Materiale metalice biocompatibile cu baza titan*, Editura Politehniun, Iași, 215 pagini; 2006, ISBN (10) 973-621-153-3; ISBN (13) 978-973-621-153-9

Cb7 **L.G.Bujoreanu**, S.Stanciu, C.Munteanu și M.Susan, *Memoria mecanică și termică a aliajelor pe bază de Cu-Zn-Al*, Editura Politehniun, Iași, 183 pagini; 2005, ISBN 973-621-111-8

Cb8 **L.G.Bujoreanu** și C.Munteanu, *Microstructural changes accompanying thermal memory occurrence și stabilization in a Cu-Zn-Al SMA*, Series Advances in Micro- și Nanoengineering,(Editors Irina Kleps, Dan Dascălu și Jose Kenny) Editura Academiei Române, București, pp. 110-120, 2004, ISBN 973-27-1110-8

<http://www.acad.ro/carti2005/ear/07MicroNanoengineering.htm>,

Cb9 **L.G.Bujoreanu** *Materiale inteligente*, Editura „Junimea”, Iași, 339 pagini, 2002, ISBN 973-37-0735-X

Cb10 **L.G.Bujoreanu**, V.Dia, E.Drăgulănescu și G.Roșescu, *Tehnologie și utilaje de obținere a unor aliaje cu memoria formei*. Editura Științifică "Fundatia Metalurgia Română", București, 166 pagini, 1999, ISBN 973-98314-8-6

Cb11 **L.G.Bujoreanu**, V.Dia și S.Mărginean, *Tehnologie și utilaje de obținere a unor aliaje cu memoria formei. Vol.I*,

II.2 Articole/ studii publicate în reviste de specialitate indexate ISI sau BDI (Ri)

- Ri 1 Mihai Popa, Elena Mihalache, Vasile Dănuț Cojocaru, Carmela Gurău, Gheorghe Gurău, Nicanor Cimpoescu, Bogdan Pricop, Radu-Ioachim Comănesci, Malte Vollmer, Philipp Krooß, Thomas Niendorf & **Leandru-Gheorghe Bujoreanu** (autor corespondent), *Effects of thermomechanical processing on the microstructure and mechanical properties of Fe-based alloys*, Journal of Materials Engineering and Performance, 29(4) 2020, 2274-2282. <https://doi.org/10.1007/s11665-020-04609-z> **IMPACT FACTOR pe 2018: 1,476**
- Ri 2 N.M.Lohan, B. Pricop, M. Popa, E. Matcovschi, N. Cimpoesu, R. Cimpoesu, B. Istrate, **L.G.Bujoreanu** (autor corespondent), *Hot Rolling Effects on the Microstructure and Chemical Properties of NiTiTa Alloys*, Journal of Materials Engineering and Performance, 28(12) 2019 7273-7280, doi 10.1007/s11665-019-04473-6, **IMPACT FACTOR pe 2018: 1,476**
- Ri 3 Mihai Popa, Nicoleta-Monica Lohan, Florin Popa, Bogdan Pricop, **Leandru-Gheorghe Bujoreanu**, *Holding-temperature effects on thermally and stress induced martensitic transformations in an FeMnSiCr SMA*, Materials Today: Proceedings 19, Part 3 (2019) 956–962, doi.org/10.1016/j.matpr.2019.08.007
- Ri 4 Vasile Bulbuc, Bogdan Pricop, Florin Maxim, Mihai Popa, Nicanor Cimpoescu, **Leandru-Gheorghe Bujoreanu**, *Variation of damping behaviour of T105Mn120 castings, used for railway safety systems, as an effect of extreme loading conditions*, Materials Today: Proceedings 19, Part 3 (2019) 949–955, doi.org/10.1016/j.matpr.2019.08.006
- Ri 5 Mihai Popa, Bogdan Pricop, Elena Mihalache, Vasile Dănuț Cojocaru, Radu-Ioachim Comănesci, **Leandru-Gheorghe Bujoreanu**, *Some structural effects related to the abnormal grain growth in FeMnAlNi shape memory alloys*, Materials Today: Proceedings 19, Part 3, (2019) 931–940, doi.org/10.1016/j.matpr.2019.08.004
- Ri 6 V Apostol, N M Lohan, E Mihalache, R I Comănesci, N Cimpoescu, B Pricop, M Popa, **L G Bujoreanu**, *Accumulation of stress induced martensite in Fe_{43.5}Mn₃₄Al_{15±x}Ni_{7.5±x} shape memory alloys*, IOP Conf. Series: Materials Science and Engineering 572 (2019) 012032, doi: 0.1088/1757-899X/572/1/012032
- Ri 7 V Bulbuc, B Pricop, M Popa, E Mihalache, B Özkal, **L G Bujoreanu**, *Thermomechanical processing effects on the structure and properties of Fe-based SMAs. I. Evolution of phase structure*, IOP Conf. Series: Materials Science and Engineering 485 (2019) 012004, doi:10.1088/1757-899X/485/1/012004
- Ri 8 M Popa, B Pricop, V Bulbuc, E Mihalache, B Özkal, **L G Bujoreanu**, *Thermomechanical processing effects on the structure and properties of Fe-based SMAs. II. Evolution of damping behaviour*, IOP Conf. Series: Materials Science and Engineering 485 (2019) 012023, doi:10.1088/1757-899X/485/1/012023
- Ri 9 N. Cimpoesu, E. Mihalache, N.-M. Lohan, M.-G. Suru, R. I. Comănesci, B. Özkal, **L.-G. Bujoreanu**, and B. Pricop, *Structural-morphological fluctuations induced by thermomechanical treatment in a Fe – Mn – Si shape memory alloy*, Metal Science and Heat Treatment, 60(7 – 8), (2018), 471-477, DOI 10.1007/s11041-018-0303-5, **IMPACT FACTOR: 0,379**
- Ri 10 V. Bulbuc, B. Pricop, F. Maxim, M. Popa, N. Cimpoescu, **L. G. Bujoreanu**, *Influence of Dynamic Three Point Bending on the Work Hardening Capacity of T105Mn120 Manganese Steel*, Journal of Materials Engineering and Performance, 27(11), 2018, 6127-6134, DOI: 10.1007/s11665-018-3658-2, **IMPACT FACTOR: 1,476**
- Ri 11 R Comaneci, **L-G Bujoreanu**, M Popa, *Effects of high straining in copper strips processed by multiple direct extrusion and subsequent rolling*, IOP Conf. Series: Materials Science and Engineering 400 (2018) 032005
- Ri 12 P Ciubotariu–Ana, C A Micu, N M Lohan, B Pricop, L G Bujoreanu and C Bejinariu, *Thermal Analysis of a New Glass Fiber-Reinforced Bismaleimide Composite Material Used for Firefighter Helmets*, IOP Conf. Series: Materials Science and Engineering 374 (2018) 012022
- Ri 13 Bogdan Pricop, Elena Mihalache, George Stoian, Firuța Borza, Burak Özkal and **Leandru-Gheorghe Bujoreanu** (autor corespondent), *Thermo-mechanical effects caused by martensite formation in powder metallurgy FeMnSiCrNi shape memory alloys*, Powder Metallurgy, 61(4), 2018, 348–356. doi.org/10.1080/00325899.2018.1492773, **IMPACT FACTOR on 2017: 1,149**
- Ri 14 V Paleu, G Gurău, R I Comănesci, V Sampath, C Gurău and **L G Bujoreanu** (autor corespondent), *A new application of Fe-28Mn-6Si-5Cr (mass%) shape memory alloy, for self-adjustable axial preloading of ball bearings*, Smart Materials and Structures, 27(7), 2018, 075026 (11pp), doi.org/10.1088/1361-665X/aac4c5, **IMPACT FACTOR on 2017: 3,543**
- Ri 15 Nicoleta Monica Lohan, Bogdan Pricop, Lucian Burlacu, **Leandru-Gheorghe Bujoreanu** (autor corespondent), *Using DSC for the detection of diffusion-controlled phenomena in Cu-based shape memory alloys*, Journal of Thermal Analysis and Calorimetry, 131, 2018, 215–224, **IMPACT FACTOR on 2017: 2,471**
- Ri 16 M. G. Suru, N. Lohan, E. Mihalache, B. Pricop, M. Mocanu, **L. Bujoreanu** (autor corespondent), *AFM Evaluation of Pre-Straining Degree Effects on the Dimensions of Stress Induced Martensite Plates in Fe-Mn-Si Based SMAs*, Journal of Testing and Evaluation, 45(2), 2017, pp. 419-427, ISSN 0090-3973, **IMPACT FACTOR: 0,711**
- Ri 17 G Gurau, C Gurau, **L G Bujoreanu** and V Sampath, *A Versatile Method for Nanostructuring Metals, Alloys and Metal Based Composites*, International Conference on Innovative Research — ICIR EUROINVENT 2017 IOP Publishing IOP Conf. Series: Materials Science and Engineering 209 (2017) 012036 doi:10.1088/1757-899X/209/1/012036
- Ri 18 Radu Ioachim Comănesci, Dumitru Nedelcu, **Leandru Gheorghe Bujoreanu**, *Influence of Tools Geometry and Processing Conditions on Behavior of a Difficult-to-Work Al-Mg Alloy During Equal Channel Angular Pressing*, AIP Conference Proceedings 1896, 200004-1-6 (2017); doi: 10.1063/1.5008241
- Ri 19 M Popa, B Pricop, E Mihalache, **L G Bujoreanu**, *Storage modulus and internal friction variations in a Fe-28 Mn-6Si-5Cr (mass. %) shape memory alloy analyzed by threepoint-bending DMA*, IOP Conf. Series: Materials Science

- and Engineering **227** (2017), 012099, p. 1-6, doi: 10.1088/1757-899X/227/1/012099
- Ri 20 L Burlacu, N Cimpoeșu, **L G Bujoreanu** and N M Lohan, *Exploiting heat treatment effects on SMAs macro and microscopic properties in developing fire protection devices*, IOP Conf. Series: Materials Science and Engineering **227** (2017), 012018, p. 1-6, doi:10.1088/1757-899X/227/1/012018
- Ri 21 G. Gurau, C. Gurau, V. Sampath, **L. G. Bujoreanu**, *Investigations of a nanostructured FeMnSi shape memory alloy produced via severe plastic deformation*, *International Journal of Minerals, Metallurgy and Materials*, 23(11), 2016, pp. 1315-1322, ISSN 1674-4799, **IMPACT FACTOR: 1,221**
- Ri 22 Gigi Vitel, Bogdan Pricop, Marius-Gabriel Suru, Nicoleta Monica Lohan, and **Leandru-Gheorghe Bujoreanu** (**autor corespondent**), *Study of Temperature Memory Effect During the Thermal Cycling in Hydraulic Systems*, *Journal of Testing and Evaluation*, VOL. 44 / NR. 4 / JULY 2016, pp. 1525-1534, doi:10.1520/JTE20140138. ISSN 0090-3973, **IMPACT FACTOR: 0,669**
- Ri 23 Marius Gabriel Suru, Nicoleta Monica Lohan, Bogdan Pricop, Elena Mihalache, Mihai Mocanu, **Leandru-Gheorghe, Bujoreanu** (**autor corespondent**), *Precipitation Effects on the Martensitic Transformation in a CuAlNi Shape Memory Alloy*, *Journal of Materials Engineering and Performance*, 25(4), 2016, pp. 1562–1569, ISSN 1059-9495, DOI: 10.1007/s11665-016-1981-z, **IMPACT FACTOR: 1,476**
- Ri 24 B. Pricop, B. Özkal, U. Söyler, J. Van Humbeeck, N. M. Lohan, M.-G. Suru, I.-P. Spiridon, and **L.-G. Bujoreanu**, *Structural changes caused by high-temperature holding of powder shape memory alloy 66% Fe – 14% Mn – 6% Si – 9% Cr – 5% Ni*, *Metal Science and Heat Treatment*, Vol. 57, Nos. 9 – 10, January, 2016, 553-558, ISSN 0026-0673, DOI 10.1007/s11041-016-9921-z, **IMPACT FACTOR: 0,397**
- Ri 25 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: 0,397**
- Ri 26 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 27 Elena Mihalache, Bogdan Pricop, Marius-Gabriel Suru, Nicoleta Monica Lohan, Radu Ioachim Comănesci, 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 28 **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 29 M.G. Suru, C. Moroșanu, R.I. Comănesci, 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 30 C. Gurau, G. Gurau, **L. G. Bujoreanu**, F. M. B. Fernandes, *A comparative study of austenitic structure in NiTi and Fe based shape memory alloys after severe plastic deformation*, *Materials Today: Proceedings*, 2(3), 2015, pp. S905 – S908, ISSN: 2214-7853, d.o.i. 10.1016/j.matpr.2015.07.428
- Ri 31 G. Gurau, C. Gurau, F. M. B. Fernandes, **L. G. Bujoreanu**, *Effect of High Speed High Pressure Torsion parameters on grain refinement of coned shape Fe based Shape Memory Alloy active elements*, *Materials Today: Proceedings*, 2(S3), 2015, pp. S897 – S900, ISSN: 2214-7853, d.o.i. 10.1016/j.matpr.2015.07.426
- Ri 32 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*, *Materials Today: Proceedings*, 2(S3), 2015, pp. S789 – S792, ISSN: 2214-7853, d.o.i. 10.1016/j.matpr.2015.07.400
- Ri 33 **L.-G. BUJOREANU**, N. M. LOHAN, M.-G. SURU, A. PLESCA *Thermal analysis of eutectic alloy at HBC fuses*, *Journal of Optoelectronics and Advanced Materials*, 17(9-10), 2015, pp. 1500-1506, ISSN 1454-4164, **IMPACT FACTOR: 0.588**
- Ri 34 **L.G. BUJOREANU**, *Development of shape memory and superelastic applications of some experimental alloys*, *Journal of Optoelectronics and Advanced Materials*, 17(9-10), 2015, pp. 1437-1443, ISSN 1454-4164, **IMPACT FACTOR: 0.588**
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- Ri 37 R Comănesci, L Zaharia, D Nedelcu and **L G Bujoreanu**, *Processing of cylindrical hollow parts: piercing vs. extrusion*, *Modern Technologies in Industrial Engineering (ModTech2015)*, IOP Conf. Series: Materials Science and Engineering 95 (2015) 012032, doi:10.1088/1757-899X/95/1/012032
- Ri 38 R. COMANEȘCI, **L. G. BUJOREANU**, C. BACIU, A. M. PREDESCU, D. SAVASTRU, *Finite element analysis of equal channel angular pressing by using a multi-pass die*, *Optoelectronics and Advanced Materials – Rapid Communications*, 9(9-10), 2015, pp. 1322 – 1327, ISSN 1842-6573, **IMPACT FACTOR: 0,386**

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- Ri 40 M-G. Suru, N.M. Lohan, B. Pricop, I.P. Spiridon, E. Mihalache, R.I. Comaneci and **L-G. Bujoreanu (autor correspondent)**, 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: 0,802**
- Ri 41 Nicoleta-Monica Lohan, Marius-Gabriel Suru, Bogdan Pricop, and **Leandru-Gheorghe Bujoreanu (autor correspondent)**, *Cooling rate effects on the structure and transformation behavior of Cu-Zn-Al shape memory alloys*, International Journal of Minerals, Metallurgy and Materials, 21(11), 2014, pp. 1109-1114, DOI: 10.1007/s12613-014-1015-5, ISSN 1674-4799, **IMPACT FACTOR: 1,221**
- Ri 42 Marius-Gabriel Suru, Adrian-Liviu, Paraschiv, Nicoleta Monica Lohan, Bogdan Pricop, Burak Ozkal, **Leandru-Gheorghe Bujoreanu (autor correspondent)**, *Loading Mode and Environment Effects on Surface Profile Characteristics of Martensite Plates in Cu-Based SMAs*, Journal of Materials Engineering and Performance, 23(7), 2014, pp. 2669-2676, ISSN 1059-9495, **IMPACT FACTOR: 1,476**
- Ri 43 GURĂU, Gheorghe, GURĂU, Marlen, POTECAȘU, Octavian, ALEXANDRU, Petrică, **Bujoreanu, Leandru**, *Novel high speed high pressure torsion technology for obtaining Fe-Mn-Si-Cr shape memory alloy active elements*, Journal of Materials Engineering and Performance, 23(7), 2014, pp. 2396-2402, ISSN 1059-9495, **IMPACT FACTOR: 1,476**
- Ri 44 A. Umut Söyler, Burak Özkal and **Leandru G. Bujoreanu**, *Improvement of shape memory characteristics of Fe-14Mn-6Si-9Cr-5Ni powder metallurgy alloy via mechanical alloying*, Journal of Materials Engineering and Performance, 23(7), 2014, pp. 2357-2361, ISSN 1059-9495, **IMPACT FACTOR: 1,476**
- Ri 45 G. Gurău, C. Gurău, F. M. Braz Fernandes, **L. G. Bujoreanu (autor correspondent)**, *An Experimental Study on the Response of Equal Channel Angular Pressed Aluminum Subjected to Cold Rolling*, Indian Journal of Engineering and Materials Sciences, Vol 21(3), 2014, pp. 253-258, ISSN 0971-4588, **IMPACT FACTOR: 0,794**
- Ri 46 M.-G. SURU, C. MOROȘANU, **L.-G. BUJOREANU**, *Variation tendencies of shape memory alloys surface relief as a function of training-cycling parameters*, Journal of Optoelectronics and Advanced Materials, Vol. 16, Nr. 3-4, 2014, pp. 394-400, ISSN 1454-4164, **IMPACT FACTOR: 0.588**
- Ri 47 B. PRICOP, B. ÖZKAL, U. SÖYLER, J. VAN HUMBEECK, N. M. LOHAN, M. G. SURU, **L.-G. BUJOREANU**, *Influence of mechanically alloyed fraction and hot rolling temperature in the last pass on the structure of Fe-14Mn-6Si-9Cr-5Ni (mass. %) shape memory alloys processed by powder metallurgy*, Optoelectronics and Advanced Materials–Rapid Communications, Vol. 8, Nr. 3-4, 2014, p. 247 – 250, ISSN 1842-6573, **IMPACT FACTOR: 0.452**
- Ri 48 Gheorghe Gurau, Carmela Gurau, **Leandru-Gheorghe Bujoreanu**, Francisco Manuel Braz Fernandes, *High speed high pressure torsion effects on a difficult deformable shape memory alloy*, GEOCONFERENCE ON NANO, BIO AND GREEN - TECHNOLOGIES FOR A SUSTAINABLE FUTURE, VOL I (SGEM 2014), Book Series: International Multidisciplinary Scientific GeoConference-SGEM, Albena, BULGARIA, JUN 17-26, 2014, pp. 93-99,
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E4. V Apostol, N M Lohan, E Mihalache, R I Comănesci, N Cimpoesu, B Pricop, M Popa and **L G Bujoreanu**, *Accumulation of stress induced martensite in Fe_{43.5}Mn₃₄Al_{15±x}Ni_{7.5-7x} shape memory alloys*, prezentare sub formă de **poster** la **EUROINVENT 2019**, 16-18 mai 2019, Iași, Romania

E5. M. Popa, N.M. Lohan, B. Pricop, **L.G. Bujoreanu**, F. Popa, *Holding-temperature effects on thermally and stress induced martensitic transformations related to strain sweep behaviour*, prezentare sub formă de **poster** (I.PO.24) la conferința **BRAMAT 2019**, 13 - 16 Martie, 2019, Brașov, ROMANIA

E6. M. Popa, E. Mihalache, B. Pricop, **L.G. Bujoreanu**, V.D. Cojocaru, *Some structural effects related to the abnormal grain growth in FeMnAlNi shape memory alloys*, prezentare sub formă de **poster** (I.PO.23) la conferința **BRAMAT 2019**, 13 - 16 Martie, 2019, Brașov, ROMANIA

E7. V. Bulbuc, B. Pricop, M. Popa, N. Cimpoesu, **L.G. Bujoreanu**, F. Maxim, *Variation of damping behaviour of T105Mn120 castings, used for railway safety systems, as an effect of extreme loading condition*, prezentare sub formă de **poster** (I.PO.03) la conferința **BRAMAT 2019**, 13 - 16 Martie, 2019, Brașov, ROMANIA

E8. V. Paleu, G. Gurău, R.I. Comănesci, V. Sampath, C. Gurău, **L.G. Bujoreanu**, *Development of a new constrained recovery application of FeMnSi-base shape memory alloys*, **prezentare în plen** la 8th International Conference on Material Science & Engineering, **UgalMat 2018**, Octombrie 11-13, 2018, Galați, Romania

E9. Popa M, Gurău C, Gurău G, Pricop B, Comănesci RI, Vollmer M, Kroos P, Niendorf T, **Bujoreanu LG**, *On the structure and properties of Fe_{43.5}Mn₃₄Al_{15-x}Ni_{7.5+x} shape memory alloys*, prezentare sub formă de **poster** la 11th International Symposium of Martensitic Transformations, **ESOMAT 2018**, 27-31 august 2018, Metz, Franța

E10. M. Popa, E. Mihalache, V. D. Cojocaru, C. Gurău, G. Gurău, N. Cimpoesu, B. Pricop, R. I. Comănesci, M. Vollmer, P. Kroos, T. Niendorf, **L. G. Bujoreanu**, *Processing effects on the structure and properties of Fe based superelastic alloys*, **prezentare orală** la data de 17 Mai 2018, 2nd International Conference on High Temperature Shape Memory Alloys From Basics to Applications **HTSMAs 2018**, 15 - 18 Mai 2018 Irsee, Germania

E11. Bogdan Pricop, Elena Mihalache, George Stoian, Firuța Borza, Burak Özkal, **Leandru-Gheorghe Bujoreanu**, *Thermomechanical effects caused by martensite formation in powder metallurgy FeMnSiCrNi shape memory alloys*, **keynote lecture**, on 18th September 2017, at 5th International Conference on Powder Metallurgy & Advanced Materials, **RoPM&AM2017**, 17-20 septembrie 2017, Cluj-Napoca, Romania

E12. Bogdan Pricop, Elena Mihalache, Burak Ozkal and **Leandru-Gheorghe Bujoreanu**, *Heat treatment and mechanical alloying effects on the dynamic stiffness of PM Fe-Mn-Si-Cr-Ni SMAs*, **prezentare orală** la data de 29 August 2017, la 5th Central and Eastern European Conference on Thermal Analysis and Calorimetry, **CEEC-TAC 4**,

Moldova, 28-31.08.2017, Chişinău

- E13. M. Mocanu, E. Mihalache, B. Pricop, F. Borza, M. Grigoras, R.I. Comănesci, B. Özkal and **L.G. Bujoreanu**, *The influence of α' (bcc) martensite on the dynamic and magnetic response of powder metallurgy FeMnSiCrNi shape memory alloys*, prezentare sub formă de **poster** la International Conference on Martensitic Transformations, **ICOMAT** . 9 –14 Iulie, 2017, Chicago, U.S.A
- E14. M Popa, B Pricop, E Mihalache, **L G Bujoreanu**, *Storage modulus and internal friction variations in a Fe-28 Mn-6Si-5Cr (mass. %) shape memory alloy analyzed by threepoint-bending DMA*, prezentare sub formă de **poster** la Modern Technologies in Industrial Engineering, **ModTech 2017**, 14-17 Iunie, 2017, Sibiu, Romania
- E15. L Burlacu, N Cimpoeşu, **L G Bujoreanu** and N M Lohan, *Exploiting heat treatment effects on SMAs macro and microscopic properties in developing fire protection devices*, prezentare sub formă de **poster** la Modern Technologies in Industrial Engineering, **ModTech 2017**, 14-17 Iunie, 2017, Sibiu, Romania
- E16. E. Mihalache, G. Gurău, R.I. Comănesci, V. Sampath, V. Paleu, B. Pricop, N.M. Lohan, C. Gurău, **L.G. Bujoreanu**, *Multifunctional modules with thermally adjustable axial movement obtained via high-speed high pressure torsion from FeMnSiCr shape memory alloy*, **prezentare orală** în data de 26 Mai, la EUROINVENT, International Conference on Innovative Research, **ICIR 2017**, 25-26 Mai 2017, Iasi, Romania.
- E17. M. Popa, B. Pricop, E. Mihalache, **L. G. Bujoreanu**, N.-M. Lohan, *Hot Working Effects on the Damping Behavior of Shape Memory Alloys*, **prezentare orală** (N.M. Lohan), la 10th International Conference on Materials Science and Engineering, **BRAMAT 2017**, 8 – 11 Martie 2017, Braşov, Romania
- E18. M. Mocanu, E. Mihalache, R. I. Comănesci, B. Pricop, B. Ozkal, **L. G. Bujoreanu**, *Tensile stress-induced structural changes associated with martensite transformations in Fe-Mn-Si based shape memory alloys*, prezentare sub formă de **poster** la 10th International Conference on Materials Science and Engineering, **BRAMAT 2017**, 8 – 11 Martie 2017, Braşov, Romania
- E19. Lucian BURLACU, Nicanor CIMPOEŞU, Nicoleta Monica LOHAN and **Leandru-Gheorghe BUJOREANU**, *NiTi Shape Memory Alloy Used for Multiple-Resetting Actuator for Fire protection*, prezentare sub formă de **poster** la 10th International Conference on Materials Science and Engineering, **BRAMAT 2017**, 8 – 11 Martie 2017, Braşov, Romania
- E20. V. Bulbuc, B. Pricop, F. Maxim, M. Popa, **L. G. Bujoreanu**, *Influence of dynamic three point bending on the work hardening capacity of manganese steels*, prezentare sub formă de **poster** la 10th International Conference on Materials Science and Engineering, **BRAMAT 2017**, 8 – 11 Martie 2017, Braşov, Romania
- E21. E. Mihalache, B. Pricop, 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*, prezentare sub formă de **poster** la Modern Technologies in Industrial Engineering, **ModTech 2016**, June 15-18, 2016, Iaşi, Romania
- E22. Elena Mihalache, Bogdan Pricop, Radu Ioachim Comănesci, 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*, **prezentare orală** la 5th International Conference "Smart and Multifunctional Materials, Structures and Systems", **CIMTEC 2016**, 5-9 Iunie, Perugia, Italia
- E23. Nicoleta-Monica LOHAN, Bogdan PRICOP, **Leandru-Gheorghe BUJOREANU**, *Using DSC for the detection of diffusion-controlled phenomena in Cu-based shape memory alloys*, **prezentare orală** la 25th "Symposium of Thermal Analysis and Calorimetry – Eugen Segal", **CATCAR 25**, 15 Aprilie 2016, Bucureşti, Romania
- E24. **Leandru-Gheorghe Bujoreanu**, Viorel Goanţă, Nicanor Cimpoeşu, 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*, prezentare sub formă de **poster** la European Symposium on Martensitic Transformations, **ESOMAT 2015**, 14-18 Septembrie, Antwerp, Belgium
- E25. 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*, prezentare sub formă de **poster** la European Symposium on Martensitic Transformations, **ESOMAT 2015**, 14-18 Septembrie, Antwerp, Belgium
- E26. N.M. Lohan, B. Pricop, M. G. Suru, E. Mihalache, L.G. Bujoreanu, *Thermal analysis of processing effects in CuZnAl SMAs*, prezentare sub formă de **poster** la European Symposium on Martensitic Transformations, **ESOMAT 2015**, 14-18 Septembrie, Antwerp, Belgium
- E27. Marius-Gabriel Suru, Nicoleta-Monica Lohan, Bogdan Pricop, Nicanor Cimpoeşu, **Leandru-Gheorghe Bujoreanu**, *Dynamic mechanical analysis of phase structure effects on cyclic thermomechanical behavior of a Cu-Al-Ni SMA*, prezentare sub formă de **poster** la European Symposium on Martensitic Transformations, **ESOMAT 2015**, 14-18 September, Antwerp, Belgium
- E28. Elena Mihalache, Bogdan Pricop, Marius-Gabriel Suru, Nicoleta-Monica Lohan, Radu Ioachim Comănesci, Bogdan Istrate, Burak Ozkal and **Leandru-Gheorghe Bujoreanu**, *Factors influencing martensite transitions in Fe-based shape memory alloys*, **prezentare orală** (E. Mihalache) la secţiunea Fe-based alloys, în data de 15.09.2015, la European Symposium on Martensitic Transformations, **ESOMAT 2015**, 14-18 Septembrie, Antwerp, Belgia
- E29. **Leandru-Gheorghe BUJOREANU**, Bogdan PRICOP, Nicoleta Monica LOHAN, Marius-Gabriel SURU, Bogdan ISTRATE, *Structural and chemical variations induced by thermomechanical cycling in shape memory actuators*, **prezentare orală** la International Conference on frontiers in Materials Processing, Applications, Research and Technology, **FIMPART 2015**, 12-15 Iunie 2015, Hyderabad, India
- E30. M.-G. Suru, N.-M. Lohan, E. Mihalache, B. Pricop, R.I. Comănesci, C. Baci, **L.-G. Bujoreanu**, *AFM Evaluation of Pre-straining Degree Effects on the Dimensions of Stress Induced Martensite Plates in Fe-Mn-Si Based SMAs*, prezentare sub formă de **poster** la High Temperature Shape Memory Alloys, **HTSMAs 2015**, 5 - 8 Mai 2015, Wildbad

Kreuth, Bayern, Germania

E31. 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*, prezentare sub formă de **poster** la High Temperature Shape Memory Alloys, **HTSMAs 2015**, 5 - 8 Mai 2015, Wildbad Kreuth, Bayern, Germania

E32. 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*, **prezentare orală** la High Temperature Shape Memory Alloys, **HTSMAs 2015**, 5 - 8 Mai 2015, Wildbad Kreuth, Bayern, Germania

E33. **L.-G. BUJOREANU**, N. M. LOHAN, M.-G. SURU, A. PLESCA *Thermal analysis of eutectic alloy at HBC fuses*, prezentare sub formă de **poster** la **BRAMAT 2015**, 5 – 7 Martie 2015, Brasov, Romania

E34. 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*, prezentare sub formă de **poster** la **BRAMAT 2015**, 5 – 7 Martie 2015, Brasov, Romania

E35. 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*, prezentare sub formă de **poster** la **BRAMAT 2015**, 5 – 7 Martie 2015, Brasov, Romania

E36. **L.G. BUJOREANU**, *Development of shape memory and superelastic applications of some experimental alloys*, **prezentare orală** la **BRAMAT 2015**, 5 – 7 Martie 2015, Brasov, Romania

E37. **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*, **prezentare orală** la 17th International Metallurgy and Materials Congress **IMMC 2014**, 11-13 Septembrie 2014, Istanbul, Turcia

E38. **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, when subjected to compression loading-unloading cycles*, **invited speaker** la Modern Technologies in Industrial Engineering **ModTech 2014**, 13-15 Iulie 2014, Gliwice, Polonia

E39. M.-G. Suru, C. Moroșanu, R.-I. Comăneci, E. Mihalache, **L.-G. Bujoreanu**, *Comparative evolution of surface relieves of stress-induced martensite plates in shape memory alloys with different crystalline structures*, prezentare sub formă de **poster** la International Conference on Martensitic Transformations, **ICOMAT 2014**, 6-11 Iulie, 2014, Bilbao, Spania

E40. 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*, **prezentare orală** la International Conference on Martensitic Transformations, **ICOMAT 2014**, 6-11 Iulie, 2014, Bilbao, Spania

E41. **Leandru-Gheorghe Bujoreanu**, Iuliana Petruța Spiridon, Bogdan Pricop, Burak Ozkal, Umut Soyler, Jan Van Humbeeck, Nicoleta Monica Lohan, Adrian-Liviu Paraschiva, Bogdan Istrate, Marius-Gabriel Suru, *Influence of solution treatment parameters on martensite plate morphology of a hot rolled powder metallurgy Fe-14Mn-6Si-9Cr-5Ni (mass. %) shape memory alloys*, prezentare sub formă de **poster** la 19th International Vacuum Congress, **IVC 2013**, 9-13 Septembrie 2013 Paris

E42. G. Gurău, C. Gurău, F. M. Braz Fernandes, **L. G. Bujoreanu**, *An experimental study on the response of equal channel angular pressed aluminum subjected to cold rolling*, **prezentare orală** (G. Gurău), Modern Technologies in Industrial Engineering, **ModTech 2013**, 27-29 Iunie, Sinaia, Romania

E43. **L.G.Bujoreanu**, *Particular aspects concerning the manufacturing and testing of experimental applications of shape memory alloys and the development of new research directions*, **prezentare orală**, Modern Technologies in Industrial Engineering, **ModTech 2013**, 27-29 Iunie, Sinaia, Romania

E44. Marius-Gabriel Suru, Adrian-Liviu Paraschiv, Nicoleta Monica Lohan, Bogdan Pricop, **Leandru-Gheorghe Bujoreanu**, Burak Ozkal, *Loading mode and alloy system effects on surface relief characteristics of martensite plates in Cu-based SMAs*, prezentare sub formă de **poster** la Shape Memory and Superelastic Technologies, **SMST 2013**, 20-24.05.2013, Praga, Republica Cehă

E45. Adrian-Liviu Paraschiv, Marius-Gabriel Suru, Nicoleta Monica Lohan, Bogdan Pricop, **Leandru-Gheorghe Bujoreanu**, Firuța Borza, Nicoleta Lupu, *Factors influencing the structure and properties of polycrystalline magnetic Fe-Ni-Co-Al-Ta-B shape memory alloys*, prezentare sub formă de **poster** la Shape Memory and Superelastic Technologies, **SMST 2013**, 20-24.05.2013, Praga, Republica Cehă

E46. **Leandru-Gheorghe Bujoreanu**, Iulia Petruța Spiridon, Marius-Gabriel Suru, Gigi Vitel, Adrian-Liviu Paraschiv, Bogdan Pricop, Nicoleta Monica Lohan, Bogdan Istrate, Gheorghe Gurău, *Atomic migration variation as an effect of thermomechanical cycling in shape memory actuators*, prezentare sub formă de **poster** la Shape Memory and Superelastic Technologies, **SMST 2013**, 20-24.05.2013, Praga, Republica Cehă

E47. M.-G. Suru, I. Dan, N. M. Lohan, A. L. Paraschiv, B. Pricop, I. P. Spiridon, C. Baci, **L.-G. Bujoreanu**, *Hot working effects on surface relief characteristics in a Fe-Mn-Si-Cr shape memory alloy*, prezentată sub formă de **poster**, la 8th International Conference in Materials Science and Engineering, **BRAMAT 2013**, 28.02-2.03.2013 Brașov, Romania

E48. A.-L. Paraschiv, F. Borza, N. Lupu, M.-G. Suru, N. M. Lohan, B. Pricop, I.-P. Spiridon, **L.-G. Bujoreanu**, *On some structural characteristics of Fe-base shape memory alloys*, prezentată sub formă de **poster**, la 8th International Conference in Materials Science and Engineering, **BRAMAT 2013**, 28.02-2.03.2013 Brașov, Romania

E49. I. P. Spiridon, B. Pricop, M. G. Suru, A. L. Paraschiv, N. M. Lohan, **L.-G. Bujoreanu**, *The influence of heat treatment atmosphere and maintaining period on the homogeneity degree of a Fe-Mn-Si-Cr-Ni shape memory alloy obtained through powder metallurgy*, prezentată sub formă de **poster**, la 8th International Conference in Materials

Science and Engineering, **BRAMAT 2013**, 28.02-2.03.2013 Braşov, Romania

E50. Bogdan Pricop, Umut Söyler, Burak Özkal, Nicoleta Monica Lohan, Adrian-Liviu Paraschiv, Marius-Gabriel Suru, **Leandru-Gheorghe Bujoreanu**, *Influence of mechanical alloying on the behavior of Fe-Mn-Si-Cr-Ni shape memory alloys made by powder metallurgy*, prezentare sub formă de **poster** la European Symposium on Martensitic Transformations - **ESOMAT 2012**, September 9-16, 2012, Saint-Petersburg, Russia

E51. **Leandru-Gheorghe BUJOREANU**, Nicoleta Monica LOHAN, Bogdan PRICOP, Nicanor CIMPOEŞU, *Using differential scanning calorimetry for the study of solid state transitions occurring in shape memory alloys*, **prezentare orală** la simpozionul organizat de către **Netzsch**, „Materials Characterisation by means of thermal analysis techniques”, 24 mai 2012 Iaşi

E52. B. Pricop, U. Söyler, N.M.Lohan, B.Özkal, **L.G.Bujoreanu**, D. Chicet, C. Munteanu, *Thermal behavior of mechanically alloyed powders used for producing an Fe-Mn-Si-Cr-Ni shape memory alloy*, susţinută sub formă de **poster** în cadrul Simpozionului A54 - Shape Memory Alloys (SMA) – Materials and Devices, **EUROMAT 2011** 12-15 September 2011, Montpellier

E53. Vasile Dia, Umut Söyler, Bogdan Pricop, Burak Özkal and **Leandru-Gheorghe Bujoreanu**, *Characterization of mechanically alloyed Fe-Mn-Si-Cr-Ni shape memory alloys. Hot rolling effects*, **prezentare orală** (V. Dia) în cadrul secţiunii Metallic Materials 5 de la 15th International Metallurgy and Materials Congress, **IMMC 2010** 11 - 13 November 2010, Istanbul

E54. B. Pricop, U. Söyler, R. I. Comănesci, B. Özkal, **L. G. Bujoreanu**, *Mechanical cycling effects at Fe-Mn-Si-Cr-Ni SMAs obtained by powder metallurgy*, susţinută sub formă de **poster** în cadrul Simpozionului S Shape memory materials for smart systems III, de la European Materials Research **E-MRS Spring Meeting 2010**, 7-11 June 2010, Strasbourg

E55. S. Stanciu, **L. G. Bujoreanu**, R.I.Comănesci, N. Cimpoeşu, I. Ioniţă, V.V.Moldoveanu, *Particularities of phase transitions in thermomechanically processed Cu-Al-Mn shape memory alloys*, susţinută sub formă de **poster** la 8th European Symposium on Martensitic Transformations, **ESOMAT 2009** 7-11 September 2009, Prague

E56. **L. G. Bujoreanu**, S. Stanciu, B. Özkal, R. I. Comănesci, M. Meyer, *Comparative study of the structures of Fe-Mn-Si-Cr-Ni shape memory alloys obtained by classical and by powder metallurgy, respectively*, **prezentare orală** la 8th European Symposium on Martensitic Transformations, **ESOMAT 2009** 7-11 September 2009, Prague

E57. **Leandru-Gheorghe BUJOREANU**, Sergiu STANCIU, Radu Ioachim COMĂNECI, Ciprian LOHAN, Nicoleta-Monica LOHAN *Particular aspects of the thermomechanical response of Fe-Mn-Si based shape memory alloys*, **prezentare în plen** în cadrul Seventh International Congress in Materials Science and Engineering, **ISSIM 2009**, 29-31 May, 2009, Iaşi

E58. Sergiu Stanciu, **Leandru G. Bujoreanu**, Nicanor Cimpoeşu and Iulian Ioniţă, *Study of shape memory effect developed by helical springs made from Cu-Al-Ni alloy by lost-wax casting*, susţinută sub formă de **poster** la Shape Memory and Superelastic Technologies **SMST 2008**, 21-25 Septembrie, Stresa, Italy

E59. **Leandru G. Bujoreanu**, Sergiu Stanciu, Radu I. Comaneci, Markus Meyer, Vasile Dia and Ciprian Lohan, *Factors influencing the reversion of stress-induced martensite to austenite in a Fe-Mn-Si-Cr-Ni shape memory alloy*, susţinută sub formă de **poster** la Shape Memory and Superelastic Technologies **SMST 2008**, 21-25 Septembrie, Stresa, Italy

E60. Sergiu Stanciu, **Leandru G. Bujoreanu**, Iulian Ioniţă, Andrei V. Sandu, Alexandru Enache, *A structural-morphological study of a Cu₆₃Al₂₆Mn₁₁ shape memory alloy*, **prezentare orală** la Advanced Topics on Optoelectronics Microtechnologies and Nano Technologies, **ATOM-N 2008** 28-31 August 2008, Constanţa

E61. **Leandru G. Bujoreanu**, Sergiu Stanciu, Paul Bărsănescu, Nicoleta M. Lohan, *Study of the transitory formation of α_1 bainite, as a precursor of α -phase in tempered SMAs*, **prezentare orală** la Advanced Topics on Optoelectronics Microtechnologies and Nano Technologies, **ATOM-N 2008** 28-31 August 2008, Constanţa

E62. **L.G.Bujoreanu**, S. Stanciu, *Results obtained at S.I.M. faculty from U.T.Iaşi in the domain of study, research and development of shape memory alloys*, **prezentare orală** la Tenth National Conference of Scientific Research in High school (CNCSIS 10), 15-17 Mai 2008, Brasov

E63. **L. G. Bujoreanu**, V. Dia, S. Stanciu, M. Susan, C. Baci, *Study of the tensile constrained recovery behavior of a Fe-Mn-Si shape memory alloy*, **prezentare orală** în cadrul Simpozionului E: Shape Memory Materials for Smart Systems, din cadrul **E-MRS Fall Meeting 2007**, 17-21 Septembrie, Varşovia, Polonia

E64. M. Susan, **L. G. Bujoreanu**, C. Baci, *Influence of the relative drawing rate at ultrasonic processing of metallic tubes and wires*, susţinută pe 12-13 September 2007, sub formă de **poster** no. 288, în cadrul Simpozionului D33, Process Modeling of Metallic Alloys, de la **EUROMAT 2007** - European Congress on Advanced Materials and Processes, 10-13, Septembrie 2007, Nürnberg, Germania

E65. **L. G. Bujoreanu**, M. Temneanu, R. Ardeleanu, M. Susan, *Factors influencing the bending reproducible behavior of shape memory electrical actuators*, susţinută în perioada 10-11 Septembrie 2007, sub formă de **poster**, no. 168, în cadrul Simpozionului B23, Shape Memory and Amorphous Alloys, de la **EUROMAT 2007** - European Congress on Advanced Materials and Processes, 10-13, Septembrie 2007, Nürnberg, Germania

E66. **Leandru-Gheorghe Bujoreanu**, *Study of the transitory formation of α_1 bainite, as a precursor of α -phase in tempered Cu-Zn-Al SMAs*, **prezentare în plen** la Sixth International Congress in Materials Science and Engineering, 24-26 Mai, 2007, Iaşi

E67. **Leandru-Gheorghe Bujoreanu**, *On the influence of austenitization on the morphology of α -phase in tempered Cu-Zn-Al shape memory alloys*, **invited speaker** S-01, pe data de 13 Septembrie 2006 între 10:30-10:45, în cadrul secţiunii 5, Microstructural characterization, în cadrul Seventh European Symposium on martensitic Transformation and Shape Memory Alloys, **ESOMAT 2006**, 10-15 Septembrie 2006, Bochum, Germania

E68. V. Dia, **L. G. Bujoreanu**, S. Stanciu, and C. Munteanu, *Study of shape memory effect in lamellar helical*

springs made from Cu-Zn-Al SMA, **prezentarea** TP 62, **sub formă de poster**, în cadrul secțiunii 6, *Cu-based and less common systems* în cadrul Seventh European Symposium on martensitic Transformation and Shape Memory Alloys, **ESOMAT 2006**, 10-15 Septembrie 2006, Bochum, Germania

E69. S. Stanciu, and **L. G. Bujoreanu**, *Formation of β_1 stress-induced martensite in the presence of γ phase in a Cu-Al-Ni-Mn-Fe shape memory alloy*, **prezentarea** WP 17 **sub formă de poster**, în cadrul secțiunii 6, *Cu-based and less common systems* în cadrul Seventh European Symposium on martensitic Transformation and Shape Memory Alloys, **ESOMAT 2006**, 10-15 Septembrie 2006, Bochum, Germania

E70. A. Airinei, C. Hulubei, R. Ardeleanu, N. Fifere, and **L.G. Bujoreanu**, *Shape change effects in azoaromatic polymer materials*, **prezentarea** WP 33 **sub formă de poster**, în cadrul secțiunii 6, *Cu-based and less common systems* în cadrul Seventh European Symposium on martensitic Transformation and Shape Memory Alloys, **ESOMAT 2006**, 10-15 Septembrie 2006, Bochum, Germania

E71. **Leandru-Gheorghe Bujoreanu**, Viorica David, Vasile Dia, Corneliu Munteanu, *Evolution of the hysteretic behaviour of SMA wires during mechanical and thermal cycling*, **prezentare orală** la the Second International Scientific Conference „Advanced Concepts in Mechanical Engineering” **ACME – 2006**, 16-17 Iunie 2006, Iași

E72. **Leandru-Gheorghe Bujoreanu**, Romeu Chelariu, Costel Roman, *The effects of Nb additions on the thermomechanical behavior of Ni-Ti shape memory alloy*, **prezentare orală** la Second International Scientific Conference „Advanced Concepts in Mechanical Engineering” **ACME – 2006**, 16-17 Iunie 2006, Iași

E73. **L.G.Bujoreanu**, *Ten years of research of Shape Memory Alloys at the Faculty of Materials Science and Engineering*, **prezentare orală** la Fifth International Congress in Materials Science and Engineering, 26-28 Mai, 2005, Iași

E74. **Leandru-Gheorghe Bujoreanu**, Corneliu Munteanu, Iulian Ioniță and Viorel Kogăniceanu, *On the shape memory behaviour of Cu-based alloys and polyethylene terephthalate (PET)*, **prezentare orală** la Seventh International Conference on the Physics of Advanced Materials, **ICPAM-7**, 10-12 Iunie 2004, Iași

E75. V. Dia, **L.G. Bujoreanu** and V. Plugaru, *Thermal cycling behaviour of a Cu-Zn-Al-Fe SMA bending actuator*, **prezentare orală** la Thirteenth European Conference of Micromechanics, **MME'02**, 6-8 Octombrie 2002, Sinaia

III. PROIECTE DE CERCETARE-DEZVOLTARE PE BAZĂ DE CONTRACT/ GRANT

III.1 Contracte de cercetare-dezvoltare internaționale, granturi de cercetare-dezvoltare câștigate prin competiție națională, contracte de cercetare-dezvoltare încheiate cu institute de cercetare, companii, regii, societăți comerciale în calitate de DIRECTOR (P)

P1. **Director de Proiect** de Cercetare Exploratorie – IDEI

Un studiu al factorilor care favorizează termoelasticitatea în aliajele superelastice cu memoria formei pe baza de Fe, contract nr. 76/ 12.07.2017, Cod PN-III-P4-ID-PCE-2016-0468

Fază unică pe 2019: Determinarea caracteristicilor termoelastice, finanțată cu **463.280 RON**

Fază unică pe 2018: Analizarea comportamentului superelastice, finanțată cu **204.145 RON**

Fază unică pe 2017: Obținerea probelor oligocristaline, finanțată cu **182.575 RON**

P2. **Director de Proiect** de Cercetare Exploratorie – IDEI

Nouă metodă de îmbunătățire a proprietăților de memoria formei prin controlul difuziei atomice, contract nr. 13/ 2.07.2013, Cod PN-II-ID-PCE-2012-4-0033

Fază unică pe 2016: Evidențierea formării reversibile a martensitei induse prin tensiune la probele 40_MA, finanțată cu **267.933 RON**

Fază unică pe 2015: Evidențierea formării reversibile a martensitei induse prin tensiune la probele 30_MA, finanțată cu **292.849 RON**

Fază unică pe 2014: Evidențierea formării reversibile a martensitei induse prin tensiune la probele 10_MA și 20_MA, finanțată cu **375.318 RON**

Fază unică pe 2013: Evidențierea formării reversibile a martensitei induse prin tensiune la probele 0_MA, finanțată cu **185.150 RON**

P3. **Director de Proiect** Colaborativ de Cercetare Aplicativă - PARTENERIATE

Sistem modular de elemente multifuncționale cu deplasare autoadaptivă, contract nr. 144/ 2.07.2012, Cod PN-II-PT-PCCA-2011-3.1-0174

Fază unică pe 2016: Evaluarea impactului economic al aplicării rezultatelor cercetării, finanțată cu **247.670 RON**

Fază unică pe 2015: Demonstrarea eficacității deplasării auto-adaptive a sistemului modular în condiții de funcționare, finanțată cu **217.978 RON**

Fază unică pe 2014: Execuția elementelor active multifuncționale pentru sistemul modular, finanțată cu **245.052 RON**

Fază unică pe 2013: Conceperea, proiectarea și producerea elementelor multifuncționale. Evaluarea efectului finisării granulației asupra efectului de memoria formei cu revenire reținută, finanțată cu **485.438 RON**

Fază unică pe 2012: Obținerea aliajului cu structura ultrafină și efect de memoria formei. Caracterizarea probelor preliminare, finanțată cu **579.862 RON**

P4. **Director de Proiect** Proiect de cercetare exploratorie, programul IDEI, *Aplicatii cu revenire retinuta, ale aliajelor cu memoria formei pe baza de Fe-(Mn, Ni)-Si, cu proprietati controlate prin modificari nanostructurale la nivelul martensitei si matricei austenitice*, contract nr. 279/ 01.10.2007, cod CNCSIS 301, Faza unică pe 2010: Obținerea și testarea elementelor de cuplare/fixare, finanțată cu **180.000 RON**
Faza unică pe 2009: Stabilirea efectelor reducerii de secțiune, stabilirea variantei de tratament termic secundar și studiul efectelor acestora, finanțată cu **172.200 RON**
Faza unică pe 2008: Stabilirea efectelor compoziției chimice, stabilirea variantei de tratament termic primar și studiul efectelor acesteia, finanțată cu **299.588 RON**
Faza unică pe 2007: Elaborarea de noi aliaje pe bază de Fe-Ni și Fe-Mn, finanțată cu **75.000 RON**

P5 Membru (Sergiu Stanciu – director de proiect), Proiect de cercetare exploratorie, programul IDEI, *Noi aliaje cu memoria formei, tip beta, cu nanostructura modificata prin aliere complexa si educare termomecanica, utilizate pentru aplicatii robotice*, contract nr. 279/ 01.10.2007, cod CNCSIS 616
Faza unică pe 2010: Testarea sistemului in conditii de functionare, finanțată cu **195.360 RON**
Faza unică pe 2009: Verificarea comportamentului la oboseala termomecanica a elementelor active, conceperea, proiectarea si realizarea unei aplicatii robotice, finanțată cu **183.800 RON**
Faza unică pe 2008: Stabilirea efectelor tratamentului termic primar, ale deformării plastice și ale ciclării termomecanice, finanțată cu **300.000 RON**
Faza unică pe 2007: Obținerea unor probe turnate și tratate termic primar din AMF de tip β , finanțată cu **78.000 RON**

P6 **Director de Proiect** Grant CNCSIS de tip A, *Dezvoltarea unui nou tip de microactuator controlat prin computer din materiale compozite AMF/elastomer, cu memoria formei*, Actul Adițional nr. GR 80 / 23.05.2007, Tema nr. 8 din Anexa Ia, cod CNCSIS: 275/2007 Faza unică pe 2007: Testarea microactuatoarei în condiții de laborator, finanțată cu **56.000 RON**
Nr contract: 63GR/ 19.05.2006, Tema nr. 3 din Anexa Ia, cod CNCSIS: 275/2006, Faza unică pe 2006: Obținerea materialului compozit AMF/ elastomer cu memoria formei, finanțată cu **82.000 RON**

P7 Membru, (Corneliu Munteanu – responsabil proiect din partea UTIasi) *Concept inovativ de realizare în jet de plasmă a straturilor dure cu proprietăți controlate, rezistente la uzură și coroziune*, Proiect CEEX-M1, Nr.67/ 2006, finanțat cu 1.330.000 RON (**175.000 RON partea UTI**)

P8 Membru, (Mihai Susan – director de proiect), *Sistem tehnologic performant pentru tragerea țevilor inoxidabile în câmp ultrasonor*, Proiect CEEX-M1, Nr.293/ 13.09.2006, finanțat cu **600.000 RON**

P9 Membru (Romeu Chelariu – responsabil proiect din partea UTIasi) *Structuri 2D și 3D din aliaje cu memoria formei biocompatibile*
Proiect CEEX 25/ 2005, finanțat cu **12.000 RON**

P10 **Director de Proiect** Grant CNCSIS de tip A, *Studiul transformărilor induse termic sau mecanic, până la nivelul nanostructurii martensitice, în materialele multifuncționale cu memoria formei. Aplicații de tip senzor și actuator*, Act adițional 24371/ 24.06.2005, Tema nr. 13 din Anexa Ia', cod CNCSIS 476/2004 Faza unică pe 2005: Testarea în condiții de laborator a elementelor multifuncționale hidraulice și electrice obținute, finanțată cu **40.000 RON**
Contract 33371/ 29.06.2004, cod CNCSIS 476/2004 Faza unică pe 2004: Producerea și caracterizarea elementelor active, cu memoria formei, punerea în formă și testarea memoriei mecanice și termice, Tema nr. 11 din Anexa Ia, finanțată cu **20.000 RON**;
Faza suplimentară pe 2004, Studiul precipitării preferențiale a fazei α în structura martensitică multivariantă indusă termic, Tema 7 din Anexa Ia adițional, finanțată cu **6.000 RON**

P11 Membru (I. Carcea - responsabil proiect din partea UTIasi) *Influența modificatorilor asupra structurii, deformabilității și caracteristicilor de material cu memoria formei la aliaje din sistemul (Cu,Ni)-(Co,Mn)-(Al,Ga,Sb)*
Programul „Materiale noi, micro și nanotehnologii” – MATNANTECH, proiect nr. 3020284, c.f. 159(302) 2003, beneficiar Facultatea de Chimie Industrială-Universitatea Politehnica București, 2003-2005, Subcontract S.C.RANCON S.R.L. Iași, finanțat cu **68.400.000 ROL**
(valoare medie pe 2003 a granturilor CNCSIS, conform C.C.T.T.Polytech: 68.185.246 ROL)

P12 Membru (C. Baci - responsabil proiect din partea UTIasi), *Tehnologii de supraaliere a stratului superficial al metalelor prin procese de difuzie la încălzire în plasma electrolitică*
Proiect CERES nr. 37/12.11.2002, finanțat pe 2003 cu **366.192.000 ROL**
finanțat pe 2002 cu **18.180.000 ROL**

P13 Membru (I. Carcea - responsabil proiect din partea UTIasi), *Obținerea aliajelor (magnetice) cu memoria formei din sistemul (Cu, Ni)-(Co, Mn)-(Al, Ga)*. Programul „Materiale noi, micro și nanotehnologii” – MATNANTECH 2001, colaborare cu Institutul Național de Cercetare-Dezvoltare pentru Fizica Tehnică Iași
Faza II/2002: Corelație între caracteristici fizico-mecanice, parametrii tratamentului termomecanic și proprietățile de aliaj cu memoria formei la unele compoziții din sistemul (Cu, Ni)(Co, Mn)(Al, Ga), finanțata cu **80.000.000 ROL**
Faza I/2001: Stabilirea stadiului actual de dezvoltare al aliajelor cu memoria formei din sistemul (Cu, Ni)-(Co, Mn)-(Al, Ga), finanțata cu **80.000.000 ROL**

P14 Membru (C. Baci - responsabil proiect din partea UTIasi), *Realizarea unor tehnologii moderne și performante de tratamente termice și termochimice în plasmă electrolitică*
Proiect RELANSIN nr. 1610/20.12.2001 finanțat cu:
366.692.000 ROL – 2003
68.500.000 ROL – 2002
238.178.670 ROL – 2001

P15 Membru (C. Baci - responsabil proiect din partea UTIASI),
Realizarea unor tehnologii moderne de elaborare, turnare și tratament termic a corpurilor de măcinare cu compoziție chimică economică și având o rezistență la uzare superioară, utilizate în industria cimentului
Proiect RELANSIN nr 64/23.12.1999 finanțat cu **214.915.500 ROL** pe 2002
P16 Membru (A. Dima, director de proiect),
Cercetări privind tehnologiile de obținere a unor noi materiale, aliajele cu memoria formei pe baza de cupru, pentru elementele active în dispozitivele de acționare
Grant C.N.C.S.U. nr. 7002/1997 finanțat cu **15.000.000 ROL**
Grant C.N.C.S.U nr. 6002/1996 finanțat cu **8.000.000 ROL**

IV. TEZA DE DOCTORAT

T1 **Leandru-Gheorghe Bujoreanu**, *Tehnologie și utilaje de obținere a unor aliaje cu memoria formei*, Universitatea Tehnică "Gh.Asachi" din Iași, 188 pagini și 7 anexe, susținută la data de 5 mai 1997