

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.Avram, *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 Indrumare 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. Adrian Petru Teodoriu, Ioan Doroftei, Bogdan Pricop and **Leandru-Gheorghe Bujoreanu**, *Study of the Load-Response Effect of NiTi-Based Thermal Actuators. Application to a Robotic Gripper*, in: *Study of the Load-Response Effect of NiTi-Based Thermal Actuators. Application to a Robotic Gripper*, Editors: Ioan Doroftei, Balint Kiss, Yvan Baudoin, Zafar Taqvi, Simone Keller Fuchter, Springer, Mechanisms and Machine Science, 2024, pp, 237-251, ISSN 2211-0984, ISBN 978-3-031-51084-7

Cb2. Bogdan Pricop, Ahmet U. Söyler, Burak Özkal and **Leandru G. Bujoreanu** (autor correspondent), *Powder Metallurgy: An Alternative for FeMnSiCrNi Shape Memory Alloys Processing*, in: *Powder Sintering and Potential Applications*, Editors: Yang, C and Challapalli, S. Lausanna: Frontiers Media SA, 2020, pp 38-53, ISBN 978-2-88971-655-5

Cb3. 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

Cb4. M. Mocanu, E. Mihalache, B. Pricop, F. Borza, M. Grigoras, R.I.Comăneci, 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.

Cb5. 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,

Cb6. 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

Cb7. L.G.Bujoreanu, *Chapter 9. Formation of transitory bainite as a precursor of α -phase during tempering of martensitic 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

Cb8. 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

Cb9. 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

Cb10. **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>,

Cb11. **L.G.Bujoreanu** *Materiale inteligente*, Editura „Junimea”, Iași, 339 pagini, 2002, ISBN 973-37-0735-X

Cb12. **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

Cb13. **L.G.Bujoreanu**, V.Dia și S.Mărginean, *Tehnologie și utilaje de obținere a unor aliaje cu memoria formei. Vol.I*, Editura Științifică “Fundatia Metalurgia Română”, București, 207 pagini, 1998, ISBN 973-98314-2-7

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

Ri 1 Matcovschi, E.; Pricop, B.; Lohan, N.-M.; Popa, M.; Bădărău, G.; Cimpoesu, N.; Ozkal, B.; Bujoreanu, L.-G. A Study of the Effects of Mechanical Alloying Fraction, Solution Treatment Temperature and Pre-Straining Degree on the Structure and Properties of a Powder Metallurgy-Produced FeMnSiCrNi Shape Memory Alloy. *Crystals* 2025, 15, 105. <https://doi.org/10.3390/cryst15020105> **FACTOR DE IMPACT: 2,4**

Ri 2 Sava, S., -D.; Pricop, B.; Popa, M.; Lohan, N.-M.; Matcovschi, E.; Cimpoesu, N.; Comăneci, R.-I.; Bujoreanu, L.-G. Highlighting Free-Recovery and Work-Generating Shape Memory Effects at 80r-PET Thermoformed Cups. *Polymers* 2024, 16, 3598. <https://doi.org/10.3390/polym16243598> **FI: 4,7**

Ri 3 Adrian Petru Teodoriu, Bogdan Pricop, Nicoleta-Monica Lohan, Mihai Popa, Radu Ioachim Comăneci, Ioan Doroftei and **Leandru-Gheorghe Bujoreanu**, *Designing a Robotic Gripper Based on the Actuating Capacity of NiTi-Based Shape Memory Wires*, *Actuators* 2024, 13, 319. <https://doi.org/10.3390/act13080319>, **FI: 2,2**

Ri 4 Sava, S., -D.; Pricop, B.; Comăneci, R.-I.; Cimpoesu, N.; Popa, M.; Lohan, N.-M.; Bujoreanu, L.-G. *Variations in the Thermomechanical and Structural Properties during the Cooling of Shape-Memory R-PETG*. *Polymers* 2024, 16, 1965. <https://doi.org/10.3390/polym16141965> **FI: 4,7**

Ri 5 Gheorghe Bădărău, Mihai Popa, George Stoian, Ana-Maria Roman, Radu-Ioachim Comăneci, Bogdan Pricop, Nicanor Cimpoesu and **Leandru-Gheorghe Bujoreanu** (autor correspondent), *Uncommon Cold-Rolling Faults in an Fe-Mn-Si-Cr Shape-Memory Alloy*, *Crystals*, 2024, 14, 250. <https://doi.org/10.3390/cryst14030250>, **IF:2,4**

Ri 6 Ana-Maria Roman, Ramona Cimpoesu, Bogdan Pricop, Nicoleta-Monica Lohan, Marius Mihai Cazacu, Leandru-Gheorghe Bujoreanu, Catalin Panaghie, Georgeta Zegan, Nicanor Cimpoesu and Alice Mirela Murariu, Influence of Dynamic Strain Sweep on the Degradation Behavior of FeMnSi-Ag Shape Memory Alloys, *Journal of Functional Biomaterials*, 2023, 14, 377. <https://doi.org/10.3390/jfb14070377> **IF:4,8**

Ri 7 Stefan Dumitru Sava, Nicoleta-Monica Lohan, Bogdan Pricop, Mihai Popa, Nicanor Cimpoesu, Radu-Ioachim Comaneci, **Leandru-Gheorghe Bujoreanu** (autor correspondent), *On the Thermomechanical Behavior of 3D-Printed Specimens of Shape Memory R-PETG*, *Polymers* 2023, 15, 2378. <https://doi.org/10.3390/polym15102378> **FI:5**

Ri 8 Popa, M.; Popa, F.; Pricop, B.; Cimpoesu, N.; Lohan, N.-M.; Kicsi, G.; Istrate, B.; **Bujoreanu, L.-G.** (autor correspondent) Heat Treatment and Dynamic Mechanical Analysis Strain Sweep Effects on the Phase Structure and Morphology of an Fe-28Mn-6Si-5Cr Shape Memory Alloy, *Nanomaterials* 2023, 13, 1250. <https://doi.org/10.3390/nano13071250> **FI:5,3**

Ri 9 Stiubianu, G.-T.; Bele, A.; Grigoras, M.; Tugui, C.; Ciubotaru, B.-I.; Zaltariov, M.-F.; Borza, F.; Bujoreanu, L.-G.; Cazacu, M. Scalable Silicone Composites for Thermal Management in Flexible Stretchable Electronics. *Batteries* 2022, 8(8), 95. <https://doi.org/10.3390/batteries8080095> **FI 4,6**

Ri 10 Pricop, B.; Grigoras, M.; Borza, F.; Özkal, B.; Bujoreanu, L.-G., *On the Possible Cause of Sudden Storage Modulus Increase during the Heating of PM FeMnSiCrNi SMAs*, *Nanomaterials* 2022, 12(14), 2342. <https://doi.org/10.3390/nano12142342> **FI 5,719**

Ri 11 Bogdan Pricop ,Stefan Dumitru Sava, Nicoleta-Monica Lohan and Leandru-Gheorghe Bujoreanu, *DMA Investigation of the Factors Influencing the Glass Transition in 3D Printed Specimens of Shape Memory Recycled PET*, *Polymers* 2022, 14(11), 2248. <https://doi.org/10.3390/polym14112248> **FI 4,967**

Ri 12 Mihai Popa, Nicoleta-Monica Lohan, Bogdan Pricop, Nicanor Cimpoesu, Marieta Porcescu, Radu Ioachim Comăneci, Maria Cazacu, Firtuța Borza and Leandru-Gheorghe Bujoreanu, *Structural-Functional Changes in a Ti50Ni45Cu5 Alloy Caused by Training Procedures Based on Free-Recovery and Work-Generating Shape Memory Effect*, *Nanomaterials*, 2022, 12, 2088. <https://doi.org/10.3390/nano12122088> **FI 5,719**

Ri 13 L. Ciurcă, B. Pricop, M. Agop, L.-G. Bujoreanu, *On Bending Creep Behaviour of a Powder Metallurgy FeMnSiCrNi Shape Memory Alloy*, *Archives of Metallurgy and Materials*, 2022, 67(3), 901-908, **FI: 0,7**

Ri 14 Carmela Gurau, Gheorghe Gurau, Felicia Tolea, Bogdan Popescu, Mihaela Banu and **Leandru-Gheorghe Bujoreanu**, *The Effect of the In-Situ Heat Treatment on the Martensitic Transformation and Specific Properties of the Fe-Mn-Si-Cr Shape Memory Alloys Processed by HSHPT Severe Plastic Deformation*, *Materials*, 2021, 14, 4621. <https://doi.org/10.3390/ma14164621> **FI: 3,1**

Ri 15 V. Bulbuc, V. Paleu, B. Pricop, M. Popa, V. Cârlescu, N. Cimpoesu, **L.G. Bujoreanu**, *Effects of Dynamic Loading under Extreme Conditions on Wear Resistance of T105Mn120 Castings for Railway Safety Systems*, *Journal of Materials Engineering and Performance*, 2021, doi.org/10.1007/s11665-021-05837-7, **FI: 1,652**

RI 16 C.D. Cirstea, M. Lucaci, M. Valeanu, M. Sofronie, L.G. Bujoreanu, M.V. Lungu, V. Tsakiris, A. Cucos, D. Talpeanu, E. Enescu, *Studies about Structural and Thermal Investigations on Ti50Ni30Cu20 Alloys Obtained by Different Technological Processes*, *Romanian Journal of Physics*, 66, 601 (2021), **FI: 1,197**

Ri 17 Bogdan Pricop, Firtuța Borza, Burak Ozkal, **Leandru-Gheorghe Bujoreanu** (autor correspondent), *Influence*

- of Thermal and Mechanical/Powder Processing on Microstructure and Dynamic Stiffness of Fe-Mn-Si-Cr-Ni Shape Memory Alloy, Transactions of the Indian Institute of Metals, 74, 2021, 1409–1418, <https://doi.org/10.1007/s12666-021-02215-8> **FI: 1,205**
- Ri 18 L Burlacu, C Dănilă, T I Birnoveanu, N Cimpoeșu and **LG Bujoreanu**, Analyze of shape memory wires behavior under external solicitation using finite elements analysis (FEA), IOP Conf. Series: Materials Science and Engineering 1037 (2021) 012031, doi:10.1088/1757-899X/1037/1/012031
- Ri 19 Bogdan Pricop, Ahmet U. Söyler, Burak Özkal and **Leandru G. Bujoreanu** (autor correspondent), *Powder Metallurgy: An Alternative for FeMnSiCrNi Shape Memory Alloys Processing*, Frontiers in Materials, 7(2020), 247, <https://doi.org/10.3389/fmats.2020.00247>, **FI: 3,515**
- Ri 20 Mihai Popa, Elena Mihalache, Vasile Dănuț Cojocaru, Carmela Gurău, Gheorghe Gurău, Nicanor Cimpoeșu, Bogdan Pricop, Radu-Ioachim Comăneci, Malte Vollmer, Philipp Krooß, Thomas Niendorf & **Leandru-Gheorghe Bujoreanu** (autor correspondent), *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> **FI: 1,652**
- Ri 21 N.M.Lohan, B. Pricop, M. Popa, E. Matcovschi, N. Cimpoesu, R. Cimpoesu, B. Istrate, **L.G.Bujoreanu** (autor correspondent), *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, **FI: 1,652**
- Ri 22 M Popa, B Pricop, R-I Comaneci, G Gurau, M Vollmer, P Krooss, T Niendorf and **L-G Bujoreanu**, *Processing effects on tensile superelastic behaviour of Fe_{43.5}Mn₃₄Al_{15±x}Ni_{7.5±x} shape memory alloys*, IOP Conf. Series: Materials Science and Engineering 591 (2019) 012026, doi:10.1088/1757-899X/591/1/012026
- Ri 23 C Costache, V Apostol, B Pricop, N-M Lohan, R I Comaneci and **L-G Bujoreanu**, *Study of some heat treatment effects on thermodynamic and structural properties of Ti-Ta biomedical shape memory alloys*, IOP Conf. Series: Materials Science and Engineering 591 (2019) 012011, doi:10.1088/1757-899X/591/1/012011
- Ri 24 L Ciurca, N-M Lohan, B Pricop and **L G Bujoreanu**, *Study of tensile behaviour of Fe base shape memory alloys during mechanical cycling*, IOP Conf. Series: Materials Science and Engineering 591 (2019) 012009, doi:10.1088/1757-899X/591/1/012009
- Ri 25 V Apostol, N M Lohan, E Mihalache, R I Comăneci, 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±x} shape memory alloys*, IOP Conf. Series: Materials Science and Engineering 572 (2019) 012032, doi:10.1088/1757-899X/572/1/012032
- Ri 26 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 27 Vasile Bulbuc, Bogdan Pricop, Florin Maxim, Mihai Popa, Nicanor Cimpoeșu, **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 28 Mihai Popa, Bogdan Pricop, Elena Mihalache, Vasile Dănuț Cojocaru, Radu-Ioachim Comăneci, **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 29 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 30 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 31 N. Cimpoesu, E. Mihalache, N.-M. Lohan, M.-G. Suru, R. I. Comăneci, 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, **FI: 0,42**
- Ri 32 V. Bulbuc, B. Pricop, F. Maxim, M. Popa, N. Cimpoeșu, **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, **FI: 1,652**
- Ri 33 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 34 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 35 Bogdan Pricop, Elena Mihalache, George Stoian, Firuța Borza, Burak Özkal and **Leandru-Gheorghe Bujoreanu** (autor correspondent), *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, **FI:1,793**
- Ri 36 V Paleu, G Gurău, R I Comăneci, V Sampath, C Gurău and **L G Bujoreanu** (autor correspondent), *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, **FI on 2017: 3,613**
- Ri 37 Nicoleta Monica Lohan, Bogdan Pricop, Lucian Burlacu, **Leandru-Gheorghe Bujoreanu** (autor correspondent), *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, **FI: 2,731**
- Ri 38 M. G. Suru, N. Lohan, E. Mihalache, B. Pricop, M. Mocanu, **L. Bujoreanu** (autor correspondent), *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, **FI: 0,877**
- Ri 39 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 40 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 41 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 42 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 43 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, **FI: 1,713**
- Ri 44 Gigi Vitel, Bogdan Pricop, Marius-Gabriel Suru, Nicoleta Monica Lohan, and **Leandru-Gheorghe Bujoreanu (autor correspondent)**, 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, **FI: 0,877**
- Ri 45 Marius Gabriel Suru, Nicoleta Monica Lohan, Bogdan Pricop, Elena Mihalache, Mihai Mocanu, **Leandru-Gheorghe, Bujoreanu (autor correspondent)**, *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, **FI: 1,652**
- Ri 46 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, **FI: 0,42**
- Ri 47 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, **FI: 0,42**
- Ri 48 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 49 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 50 **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 51 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 52 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 53 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 54 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 55 **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, **FI: 0,631**
- Ri 56 **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, **FI: 0,631**
- Ri 57 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, **FI: 0,631**

- Ri 58 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, **FI: 0,631**
- Ri 59 R Comăneci, 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 60 R. COMANECCI, **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, **FI: 0,445**
- Ri 61 **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, **FI: 0,521**
- Ri 62 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, **FI: 0,714**
- Ri 63 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, **FI: 1,713**
- Ri 64 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, **FI: 1,652**
- Ri 65 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, **FI: 1,652**
- Ri 66 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, **FI: 1,652**
- Ri 67 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, **FI: 0,521**
- Ri 68 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, **FI: 0,631**
- Ri 69 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, **FI: 0,445**
- Ri 70 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,
- Ri 71 M.-G. Suru, I. Dan, N. M. Lohan, A. L. Paraschiv, B. Pricop, I. P. Spiridon, C. Baciu, **L.-G. Bujoreanu (autor correspondent)**, *Effects of hot working procedure on surface relief characteristic in an Fe–Mn–Si–Cr shape memory alloy*, Materialwissenschaft und Werkstofftechnik, 45(1), 2014, pp. 44–50, ISSN 0933-5137, **FI: 0,744**
- Ri 72 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, Nr. 11-12, 2013, p. 881 - 886, ISSN 1842-6573, **FI: 0,445**
- Ri 73 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*, Journal of Optoelectronics and Advanced Materials 15(7-8), 2013, pp. 730 – 733, ISSN 1454-4164, **FI: 0,631**
- Ri 74 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*, Journal of Optoelectronics and Advanced Materials 15(7-8), 2013, pp. 781 – 784, ISSN 1454-4164, **FI: 0,631**
- Ri 75 M. G. SURU, A. L. PARASCHIV, B. PRICOP, **L. G. BUJOREANU**, *A statistical evaluation of thermomechanical loading effects on martensite plate morphology in CuZnAl SMAs*, Optoelectronics and Advanced Materials-Rapid Communications, Vol. 7, Nr. 1-2, January - February 2013, p. 141 - 144, ISSN 1842-6573, **FI: 0,445**
- Ri 76 Bogdan Pricop, Umut Söyler, Burak Özkal, Nicoleta Monica Lohan, Adrian Liviu Paraschiv, Marius Gabriel Suru and **Leandru-Gheorghe Bujoreanu**, *Influence of mechanical alloying on the behavior of Fe-Mn-Si-Cr-Ni shape memory alloys made by powder metallurgy*, Materials Science Forum Vols. 738-739 (2013) pp 237-241, ISSN 1662-9752, **FI: 0, 399**

- Ri 77 G. Vitel, M. G.Suru, A. L. Paraschiv, N. M. Lohan, B. Pricop, M. Baci, **L. G. Bujoreanu (autor correspondent)**, *Structural effects of training cycles in shape memory actuators for temperature control*, Materials and Manufacturing Processes, 28(1), pp. 79-84, 2013, ISSN 1042-6914, DOI:10.1080/10426914.2012.700157, **FI: 3,046**
- Ri 78 M.-G. Suru, **L.-G.Bujoreanu (autor correspondent)**, *Comparative topographic study of surface micro-relief of primary martensite plates in shape memory alloys with different crystalline structures*, Materialwissenschaft und Werkstofftechnik 43(11), pp. 973-978, 2012, ISSN 0933-5137, DOI 10.1002/mawe.201200986, **FI: 0,744**
- Ri 79 B. Pricop, U. Söyler, N.M.Lohan, B.Özkal, **L.G.Bujoreanu (autor correspondent)**, D. Chicet, C. Munteanu, *Thermal behavior of mechanically alloyed powders used for producing an Fe-Mn-Si-Cr-Ni shape memory alloy*, Journal of Materials Engineering and Performance, 21(11), pp 2407–2416, 2012, ISSN 1059-9495, DOI: 10.1007/s11665-012-0168-5, **FI: 1,652**
- Ri 80 N.M.Lohan, **L.G.Bujoreanu (autor correspondent)**, C.Baci, *Influence of temperature variation rate on the calorimetric response during heating and on the martensite structure obtained after subsequent cooling of a Cu-Zn-Al shape memory alloy*, Micro & Nano Letters, 7(6), pp. 540–543, 2012, ISSN 1750-0443, **FI: 0,975**
- Ri 81 **L.-G. Bujoreanu**, N. M. Lohan, B. Pricop and N. Cimpoeşu, *On role of atomic migration in amnesia occurrence during complex thermal cycling of Cu–Zn–Al shape memory alloy*, Materials Science and Technology, 28(6), pp. 658-667, 2012, ISSN 0267-0836, **FI: 1,938**
- Ri 82 G. Vitel, A. L. Paraschiv, M. G. Suru, N. Cimpoesu, **L.-G. Bujoreanu**, *Tempering effects in a normalized hot forged Cu-Zn-Al shape memory alloy*, Optoelectronics and Advanced Materials-Rapid Communications, 6(1-2), pp. 339-342, 2012, ISSN 1842-6573, **FI: 0,445**
- Ri 83 Nicoleta Monica Lohan, Bogdan Pricop, **Leandru-Gheorghe Bujoreanu (autor correspondent)**, Nicanor Cimpoesu, *Heating rate effects on reverse martensitic transformation in a Cu–Zn–Al shape memory alloy*, International Journal of Materials Research, 102(11), pp. 1345-1351, 2011, DOI: 10.3139/146.110595, ISSN 1862-5282, Direct link: <http://www.ijmr.de/directlink.asp?MK110595> , **FI on 2011: 0,653**
- Ri 84 G. Vitel, A. L. Paraschiv, M. G. Suru, N. Cimpoesu, **L.-G. Bujoreanu**, *New calorimetric-structural aspects of temperature memory effect in hot rolled Cu-Zn-Al SMAs*, Optoelectronics and Advanced Materials-Rapid Communications, 5(8), pp. 858-862, 2011, ISSN 1842-6573, **FI: 0,445**
- Ri 85 B. Pricop, U. Söyler, N. M. Lohan, B. Özkal, D. Chicet, A. David, **L.-G. Bujoreanu**, *Mechanical alloying effects on the thermal behaviour of a Fe-Mn-Si-Cr-Ni shape memory alloy under powder form*, Optoelectronics and Advanced Materials-Rapid Communications, 5(5), pp. 569 – 575, 2011, ISSN 1842-6573, **FI: 0,445**
- Ri 86 A. Umut Söyler, Burak Özkal, **Leandru G. Bujoreanu**, *Investigation of Mechanical Alloying Process Parameters on Fe-Mn-Si Based System*, Supplemental Proceedings: Volume 1: Materials Processing and Energy Materials **TMS** (The Minerals, Metals & Materials Society) pp. 577-583, 2011
- Ri 87 **L. G. Bujoreanu**, N. M. Lohan, B. Pricop, N. Cimpoeşu, *Thermal memory degradation in a Cu-Zn-Al shape memory alloy during thermal cycling with free air cooling*, Journal of Materials Engineering and Performance, 20(3) pp. 468–475, 2011, DOI: 10.1007/s11665-010-9702-5, ISSN 1059-9495, **FI: 1,652**
- Ri 88 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*, Physics Procedia 10 pp. 125–131, 2010, ISSN 1875-3892
- Ri 89 A. Umut Söyler, Burak Özkal, **Leandru G. Bujoreanu**, *Sintering Densification and Microstructural Characterization of Mechanical Alloyed Fe-Mn-Si based Powder Metal System*, Supplemental Proceedings: Volume 3 General Paper Selection **TMS** (The Minerals, Metals & Materials Society), pp. 785-792, 2010
- Ri 90 C. Lohan, B. Pricop, R. I. Comănesci, N. Cimpoeşu, **L.-G. Bujoreanu**, *Variation tendencies of tensile constrained recovery behaviour and associated structural changes during thermal cycling of a Fe-Mn-Si-Cr-Ni shape memory alloy*, Optoelectronics and Advanced Materials-Rapid Communications, 4(6), pp. 816-820, 2010, ISSN 1842-6573, **FI: 0,445**
- Ri 91 **Leandru-Gheorghe Bujoreanu**, Marcus L. Young, Susanne Gollerthan, Christoph Somsen, Gunther Eggeler, *Influence of heat treatment and microstructure on the tensile pseudoelastic response of an Ni-rich NiTi shape memory alloy*, International Journal of Materials Research, 101(5) pp. 623-630, 2010, ISSN 1862-5282, **FI: 0,653**
- Ri 92 **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*, in ESOMAT 2009 - The 8th European Symposium on Martensitic Transformations, 05003, 2009, edited by P. Šittner, L. Heller and V. Paidar, published by EDP Sciences (www.esomat.org) DOI:10.1051/esomat/200905003
- Ri 93 S. Stanciu, **L. G. Bujoreanu**, R.I.Comănesci, N. Cimpoeşu, I. Ioniță, V.V.Moldoveanu, *Particularities of phase transitions in thermomechanically processed Cu-Al-Mn shape memory alloys*, in ESOMAT 2009 - The 8th European Symposium on Martensitic Transformations, 05004, 2009, edited by P. Šittner, L. Heller and V. Paidar, published by EDP Sciences (www.esomat.org) DOI:10.1051/esomat/200905004
- Ri 94 Stanciu, **L.-G. Bujoreanu**, N. Cimpoeşu, I. Ioniță, V.V. Moldoveanu, *Shape memory effect and related characteristics of helical springs made from Cu-Al-Ni alloy by investment casting*, Optoelectronics and Advanced Materials-Rapid Communications 3(6) pp. 581-585, 2009, ISSN 1842-6573, **FI: 0,445**
- Ri 95 **L. G. Bujoreanu**, S. Stanciu, R. I. Comănesci, M. Meyer, V. Dia, C. Lohan, *Factors influencing the reversion of stress-induced martensite to austenite in a Fe-Mn-Si-Cr-Ni shape memory alloy*, Journal of Materials Engineering and Performance 18(5-6) August, pp. 500-505, 2009, ISSN 1059-9495, **FI: 1,652**
- Ri 96 **Leandru G. Bujoreanu**, Sergiu Stanciu, Paul Bârsănescu, and Nicoleta M. Lohan, *Study of the transitory formation of α_1 bainite, as a precursor of α -phase in tempered SMAs*, in Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies IV, edited by Paul Schiopu, Cornel Panait, George Caruntu, Adrian Manea, Proceedings of SPIE, Vol. 7297, (SPIE, Bellingham, WA, 2009), 72970B (d.o.i. 10.1117/12.823620), ISSN 0277-786X
- Ri 97 Sergiu Stanciu, **Leandru G. Bujoreanu**, Iulian Ioniță, Andrei V. Sandu and Alexandru Enache, *A structural-*

- morphological study of a Cu₆₃Al₂₆Mn₁₁ shape memory alloy*, in *Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies IV*, edited by Paul Schiopu, Cornel Panait, George Caruntu, Adrian Manea, Proceedings of SPIE, Vol. 7297, (SPIE, Bellingham, WA, 2009), 72970C, d.o.i. 10.1117/12.823621, ISSN 0277-786X
- Ri 98 T. Sawaguchi, **L.-G. Bujoreanu**, T. Kikuchi, K. Ogawa, M. Koyama, M. Murakami, *Mechanism of reversible transformation-induced plasticity of Fe-Mn-Si shape memory alloys*, *Scripta Materialia* 59(10), pp. 826-829, 2008, ISSN 1359-6462, **FI: 5,079**
- Ri 99 M. Susan, **L.-G. Bujoreanu**, C.L. Dumitrache, L.C.Hanganu, C.Baciu, *A kinematical study of ultrasonic welding based on a system of stationary waves*, *Journal of Optoelectronics and Advanced Materials* 10(6) June, pp. 1425-1430, 2008, ISSN 1454-4164, **FI: 0,631**
- Ri 100 S. Stanciu, **L.-G. Bujoreanu**, B. Özkal, M. L. Öveçoğlu, A. V. Sandu, *Study of precipitate formation in Cu–Al–Ni–Mn–Fe shape memory alloys*, *Journal of Optoelectronics and Advanced Materials* 10(6) June, pp. 1365-1369, 2008, ISSN 1454-4164, **FI: 0,631**
- Ri 101 **L.-G. Bujoreanu**, S. Stanciu, A. Enache, C. Lohan, I. Rusu, *Influence of some extrinsic factors on the two way shape memory effect of electric actuators*, *Journal of Optoelectronics and Advanced Materials* 10(3) March, pp. 602-606, 2008, ISSN 1454-4164, **FI: 0,631**
- Ri 102 **L.G.Bujoreanu**, V. Dia, S. Stanciu, M. Susan, C. Baciu, *Study of tensile constrained recovery behavior of a Fe-Mn-Si shape memory alloy*, *European Physical Journal, Special Topics*, 158, May, 2008 pp. 15-20, ISSN 1951-6355, **FI: 1,668**
- Ri 103 **L.G.Bujoreanu**, *On the influence of austenitization on the morphology of α -phase in tempered Cu-Zn-Al shape memory alloys*, *Materials Science and Engineering A*, 481-482, 2008, pp. 395-403, ISSN 0921-5093, **FI: 4,652**
- Ri 104 S. Stanciu, and **L. G. Bujoreanu** (autor correspondent), *Formation of β_1' stress-induced martensite in the presence of γ phase in a Cu-Al-Ni-Mn-Fe shape memory alloy*, *Materials Science and Engineering A*, pp. 481-482, 2008, pp. 494-499, ISSN 0921-5093, **FI: 4,652**
- Ri 105 V. Dia, **L.G.Bujoreanu** (autor correspondent), S. Stanciu, C. Munteanu, *Study of shape memory effect in lamellar helical springs made from Cu-Zn-Al SMA*, *Materials Science and Engineering A* 481-482, 2008, pp. 697-701, ISSN 0921-5093, **FI: 4,652**
- Ri 106 T. Sawaguchi, **L.-G. Bujoreanu**, T. Kikuchi, K. Ogawa and F. Yin, *Effects of Nb and C in solution and in NbC form on the transformation-related internal friction of Fe-17Mn (mass%) alloys*, *ISIJ International*, Vol. 48 (1), pp. 99-106, 2008, ISSN 0915-1559; **FI: 1,405**
- Ri 107 M.Susan, **L.G.Bujoreanu**, D.G.Gălușcă, C.Munteanu and M.Mantu, *On the drawing in ultrasonic field of metallic wires with high mechanical resistance*, *Journal of Optoelectronics and Advanced Materials* 7(2) April, pp. 637-646, 2005, ISSN 1454-4164, **FI: 0,631**
- Ri 108 M.Susan, **L.G.Bujoreanu**, D.G.Gălușcă, C.Munteanu and V.Iliescu, *Influence of relative deformation rate on tube processing by ultrasonic vibration drawing*, *Revista de Metalurgia de Madrid* 40(2), pp. 109-117, 2004, ISSN 0034-8570, **FI: 0,878**
- Ri 109 D.Mihai and **L.G.Bujoreanu**, *Mechanical properties degradation in a Cr-Mo low-alloy steel pipe after prolonged use for gas transport in a power plant station*, *Revista de Metalurgia de Madrid*, 38(6), pp. 464-468, 2002, ISSN 0034-8570, **FI: 0,878**
- Ri 110 **L.G.Bujoreanu**, M.L.Craus, S.Stanciu and V.Dia, *Thermally and stress induced changes in three phase structure of Cu-Zn-Al-Fe shape memory alloy*, *Materials Science and Technology* 16(June), pp. 612-616, 2000, ISSN 0267-0836, **FI: 0,562**
- Ri 111 M.Susan and **L.G.Bujoreanu**, *The metal-tool contact friction at the ultrasonic vibration drawing of ball-bearing steel wires*, *Revista de Metalurgia de Madrid* 35(6), pp. 379-383, 1999, ISSN 0034-8570, **FI: 0,878**
- Ri 112 **L.G.Bujoreanu**, M.L.Craus, I.Rusu, S.Stanciu and D.Sutiman, *On the β_2 to α phase transformation in a Cu-Zn-Al – based shape memory alloy*, *Journal of Alloys and Compounds* 278, pp. 190-193, 1998, ISSN 0925-8388, **FI: 4,65**

II.3 Articole în reviste indexate în alte Baze de Date Internaționale (BDI)

- Rn 1 Andrei Zama, Viorel Paleu, **Leandru Gheorghe Bujoreanu**, Cornelia Cirlan Paleu, Dumitru Olaru, *Advances in angular contact ball bearings testing machine design* International Journal of Modern Manufacturing Technologies, Special Issue, Vol. XI, No. 3 / 2019, 137-142, ISSN 2067-3604
- Rn 2 N. Cimpoesu, E. Mihalache, N.-M. Lohan, M. G. Suru, R. I. Comaneci, B. Ozkal, **L. G. Bujoreanu**, B. Pricop, *Structurno-morfologiceskie fluctuații v Fe-Mn-Si-splave s pamitno formi, vízvanie termomechaniceskoi obrabotkoi*, *Metalovidenia I Termicekaia Obraboka Metalov*, 7(757) 2018, 61-68 (Indexată Russian Science Citation Index)
- Rn 3 E. Mihalache, B. Pricop, R. I. Comăneci, M. G. Suru, N. M. Lohan, M. Mocanu, B. Özkal, **L. G. Bujoreanu**, *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*, 97, 2017, pp. 153-158, ISSN: 1662-0356, <https://doi.org/10.4028/www.scientific.net/AST.97.153>
- Rn 4 POPA Mihai, PRICOP Bogdan, MIHALACHE Elena, **BUJOREANU Leandru-Gheorghe** and LOHAN Nicoleta Monica, *Hot Working Effects on the Damping Behavior of Shape Memory Alloys*, *Materials Science Forum*, 907, 2017, 180-187, ISSN: 1662-9752, doi: 10.4028/www.scientific.net/MSF.907.180.
- Rn 5 MOCANU Mihai, MIHALACHE Elena, COMĂNECI Radu-Ioachim, PRICOP Bogdan, ÖZKAL Burak and **BUJOREANU Leandru-Gheorghe**, *Tensile Stress-Induced Structural Changes Associated with Martensite Transformations in Fe-Mn-Si Based Shape Memory Alloys*, *Materials Science Forum*, 907, 2017, 25-30, ISSN: 1662-9752, doi: 10.4028/www.scientific.net/MSF.907.25.
- Rn 6 BURLACU Lucian, CIMPOEȘU Nicanor, LOHAN Nicoleta Monica and **BUJOREANU Leandru-Gheorghe**, *NiTi*

- Shape Memory Alloy Used for Multiple-Resetting Actuator for Fire Protection*, Materials Science Forum, 907, 2017, 8-13, ISSN: 1662-9752, doi:10.4028/www.scientific.net/MSF.907.8
- Rn 7 G. Gurau, C. Gurau, F. Tolea, M. Valeanu, V. Sampath and **L. G. Bujoreanu**, *Effect of severe plastic deformation on the structure and magnetic behaviour of an Fe-Mn-Si shape memory alloy*, Advanced Materials Research, 1143, 2017, 240-246, ISSN 1022-6680, doi:10.4028/www.scientific.net/AMR.1143.240
- Rn 8 G. Gurau, C. Gurau, M. Banu, **L. G Bujoreanu**, *Microstructural evolution in ultrafine grained FeMnSiCr shape memory alloy modules*, Advanced Materials Research, 1143, 2017, 214-220, ISSN 1022-6680, doi:10.4028/www.scientific.net/AMR.1143.214
- Rn 9 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, Nr. 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
- Rn 10 Gheorghe Gurău, **Leandru G. Bujoreanu**, Carmela Gurău, Radu I. Comănesci, Nicoleta M. Lohan, Bogdan Pricop, Marius G. Suru, *Superelastic-like response obtained at Fe-Mn-Si-Cr shape memory alloys processed by high-speed high pressure torsion*, International Journal of Modern Manufacturing Technologies, Vol. VII, Nr. 1, pp. 23-37, 2015, ISSN 2067–3604, <http://modtech.ro/international-journal/international-journal-ijmmt.php?volume=vol7no12015> indexed Scopus, INSPEC, Index Copernicus, Google Scholar
- Rn 11 B. Pricop, B. Ozkal, U. Soyler, J Van Humbeeck, N.M. Lohan, M.G. Suru, I.P Spiridon, **L.G.Bujoreanu**, *Structurnie izmenenia, vizvanie visokotemperaturnoi viderjkoy poroshkogovo splava 66 % Fe-14 % Mn-6 % Si-9 % Cr-5 % Ni s efectom pamiati formi*, Metalovidenia I Termicekaia Obraboka Metalov, 9(723) 2015, 35-40 (Indexată Russian Science Citation Index)
- Rn 12 I.P Spiridon, N.M. Lohan, M.G. Suru, E. Mihalache, , **L.G.Bujoreanu**, B. Pricop, *Isledovanie svobodnogo vozvrata v Fe-Mn-Si-splave s pamitno formi*, Metalovidenia I Termicekaia Obraboka Metalov, 9(723) 2015, 30-34 (Indexată Russian Science Citation Index)
- Rn 13 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 (indexata Cambridge Scientific Abstracts)
- Rn 14 Bogdan Pricop, Nicoleta Monica Lohan, Firuța Borza, Nicoleta Lupu, Marius-Gabriel Suru, Elena Mihalache, Radu Ioachim Comănesci, **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, Nr. 3 – 2014, ISSN 1453 – 083X, pp. 20-25 (indexata Cambridge Scientific Abstracts)
- Rn 15 Marius-Gabriel Suru, Adrian-Liviu Paraschiv și **Leandru Gheorghe Bujoreanu**, *Novel micro structural aspects of martensite plates in shape memory alloys based on Fe-Mn-Si and Cu-Zn-Al*, Buletinul Institutului Politehnic Iași, tomul LVIII (LXII), fascicula 2, Secția Știința și Ingineria Materialelor, 2012, 15-210, ISSN 1453-1690.
- Rn 16 Bogdan Pricop, Nicoleta Monica Lohan și **Leandru-Gheorghe Bujoreanu**, *Obtainment of Fe-Mn-Si-Cr-Ni SMAs by Powder Metallurgy*, Bul. Inst. Polit. Iași, t. LVII (LXI), f. 1, s. St. Ing. Mater., 2011, 71-77, ISSN 1453-1690.
- Rn 17 Bogdan Pricop, Nicoleta–Monica Lohan (Mahu) and **Leandru Gheorghe Bujoreanu**, *Cycling Effects on Martensite Reversion in Cu-Based SMAs*, Bul. Inst. Polit. Iași, t. LVI (LX), f 3, s. St. Ing. Mater., 2010, 135-141, ISSN 1453-1690.
- Rn 18 Bogdan Pricop, Nicoleta Monica Lohan and **Leandru-Gheorghe Bujoreanu**, *Thermal cycling effects in Cu-Zn-Al shape memory alloys*, Bul. Inst. Polit. Iași, t. LVI (LX), t LVI (LX), f. 4, s. St. Ing. Mater., 2010, 65-70, ISSN 1453-1690.
- Rn 19 **Leandru-Gheorghe Bujoreanu**, Sergiu Stanciu, Raduioachim Comănesci, Vasile-Viorel Moldoveanu, Ciprian Lohan and Nicoleta-Monica Lohan, *Pseudoelastic effects of the formation of ϵ tensile-induced martensile in Fe-Mn-Si-Cr-Ni shape memory alloys*, Bul. Inst. Polit. Iași, LV (LIX), f. 1, s. St. Ing. Mater., 2009, 105-110, ISSN 1453-1690.
- Rn 20 Sergiu Stanciu, **Leandru-Gheorghe Bujoreanu**, Nicanor Cimpoeșu, Monica Nicoleta Lohan, *Method for in situ observation of stress-induced martensite formation and evolution in shape memory alloys*, Bul. Inst. Polit. Iași, t. LIV(LVIII), f. 1, Construcții de Mașini, pp. 357-362, 2008, ISSN 1011-2855
- Rn 21 **Leandru-Gheorghe Bujoreanu**, Sergiu Stanciu, Monica Nicoleta Lohan, Nicanor Cimpoeșu, Ciprian Lohan, *The role of ϵ stress-induced martensite in Fe-Mn-Si shape memory behavior*, Bul. Inst. Polit. Iași, t. LIV(LVIII), f 1, Constr. Mas., pp.351-356, 2008, ISSN 1011-2855.
- Rn 22 **Leandru-Gheorghe Bujoreanu**, Sergiu Stanciu and Vasile Dia, *Microstructural changes occurring during the conventional processing of Fe-Mn based shape memory alloys*, Bul. Inst. Polit. Iași, t. LIII (LVII), f.1 s. St. Ing. Mater., 2007, 21-26, ISSN 1453-1690.
- Rn 23 **Leandru-Gheorghe Bujoreanu**, Viorica David, Vasile Dia, Corneliu Munteanu, *Evolution of the hysteretic behaviour of SMA wires during mechanical and thermal cycling*, Bul. Inst. Polit. Iași, t. LII(LVI), f. 6B, Constr. Mas., pp. 207-212, 2006, ISSN 1011-2855.
- Rn 24 **Leandru-Gheorghe Bujoreanu**, Romeu Chelariu, Costel Roman, *The effects of Nb additions on the thermomechanical behavior of Ni-Ti shape memory alloy*, Bul. Inst. Polit. Iași, t. LII(LVI), f. 6B, Constr. Mas., pp. 197-206, 2006, ISSN 1011-2855.
- Rn 25 **Leandru-Gheorghe Bujoreanu**, Vasile Dia, Viorica David Corneliu Munteanu and Florin Maxim, *Tempering effects on the microstructure and tensile behaviour of a Cu-Zn-Al shape memory alloy*, Bul. Inst. Polit. Iași, t. LII(LVI), Fasc.1, s. St. Ing. Mater.2006, 191-194, ISSN 1453-1690.

- Rn 26 **Leandru-Gheorghe Bujoreanu**, Corneliu Munteanu, Iulian Ioniță, Mitică Temneanu and Viorel Kogăniceanu, *On the shape memory behaviour of Cu-based alloys and polyethylene terephthalate (PET)*, Bul. Inst. Polit. Iași, t. LI (LV), f 4, s. St. Ing. Mater., 2005, 43-50, ISSN 1453-1690.
- Rn 27 Vasile Dia, **Leandru-Gheorghe Bujoreanu**, Gabriela Hrițuleac and Viorica David, *Study of the work generating shape memory effect*, Bul. Inst. Polit. Iași, t. LI (LV), f 4, s. St. Ing. Mater., 2005, 89-96, ISSN 1453-1690.
- Rn 28 Corneliu Munteanu and **Leandru-Gheorghe Bujoreanu**, *Study of dimensional uniformity and electric resistivity variation in amorphous ribbons from $Fe_{80-x}Sm_xB_{20}$ and $Fe_{80-x}Gd_xB_{20}$ systems*, Bul. Inst. Polit. Iași, t. LI (LV), f 4, s. St. Ing. Mater., 2005, 155-158, ISSN 1453-1690.
- Rn 29 **L.G.Bujoreanu**, S.Stanciu, C.Roman and J.Schürhoff, *Caracterizarea unui aliaj Cu-Al-Ni-Mn cu memoria formeii. II – Efectele solicitărilor termomecanice (Characterization of a Cu-Al-Ni-Mn shape memory alloy. II – Effects of thermomechanical loads)*, Cercetări Metalurgice și de Noi Materiale (Metallurgy and New Materials Researches) XI(3), pp. 20-31, 2003, ISSN 1221-5503 (Indexată British Library, Empas)
- Rn 30 **L.G.Bujoreanu**, R.Chelariu, I.Carcea and M.L.Craus, *Caracterizarea unui aliaj Cu-Al-Ni-Mn cu memoria formeii. Structura și morfologia fazică (Characterization of a Cu-Al-Ni-Mn shape memory alloy. I – Phasic structure and morphology)*, Cercetări Metalurgice și de Noi Materiale (Metallurgy and New Materials Researches) XI(2), pp. 30-42, 2003, ISSN 1221-5503 (Indexată British Library, Empas)
- Rn 31 **L. G. Bujoreanu**, M.L.Craus, V.Dia and V.Plugaru, *Response to applied mechanical load of a multivariant martensitic Cu-Zn-Al-Fe shape memory alloy*, University Politehnica of Bucharest, Scientific Bulletin, Series B: Chemistry and Materials Science, Vol. 64, Nr.3, pp. 59-68, 2002, ISSN 1454-2331, (Indexată Scopus)
- Rn 32 **L.G.Bujoreanu**, *Influence of α -brass phase on the structure and properties of an experimental Cu-Zn-Al shape memory alloy*, Bul. Inst. Polit. Iași, t. XLVIII(LII), f. 3-4, St. Ing. Mater., pp. 137-144, 2002, ISSN 1453-1690 (Indexată Ulrich's)
- Rn 33 D.Mihai și **L.G.Bujoreanu**, *Accentuarea anizotropiei mecanice și structurale a conductelor de abur din oțel 15223 CSN ca efect al expunerilor îndelungate la presiuni și temperaturi ridicate (Enhancement of mechanical and microstructural anisotropy of 15223 CSN steel steam pipes, as an effect of long-lasting exposures to elevated pressures and temperatures)*, Cercetări Metalurgice și de Noi Materiale (Metallurgy and New Materials Researches), X(2), pp. 25-36, 2002, ISSN 1221-5503
- Rn 34 **L.G.Bujoreanu** and M.L.Craus, *Efectele metodei de deformare plastic la cald asupra echilibrului dintre memoria termică și cea mecanică (Hot working effects on the balance between thermal and mechanical memory)*, Cercetări Metalurgice și de Noi Materiale (Metallurgy and New Materials Researches), pp. 24-35, 2002, X(1), ISSN 1221-5503
- Rn 35 **L.G.Bujoreanu**, V.Plugaru and V.Dia, *Use of shape memory effect of copper-based alloys at constrained recovery applications*, Bul. Inst. Polit. Iași, t. XLVII(LI), fasc. 3-4, St. Ing. Mater., pp. 155-164, 2001, ISSN 1453-1690 (Indexată Ulrich's)
- Rn 36 D.Mihai și **L.G.Bujoreanu**, *Modificări ale caracteristicilor mecanice ale conductelor de abur, ca efect al expunerilor îndelungate la presiuni și temperaturi ridicate (Changes of the mechanical characteristics of steam pipes as an effect of long-lasting exposures to elevated pressures and temperatures)*, Cercetări Metalurgice și de Noi Materiale (Metallurgy and New Materials Researches), IX(2), pp. 57-65, 2001, ISSN 1221-5503 (Indexată British Library)
- Rn 37 **L.G.Bujoreanu**, *Variația punctului critic A_s în timpul educării termomecanice și al ciclării ulterioare prin efect de memoria formeii în dublu sens al unui aliaj cu memoria formeii pe bază de Cu-Zn-Al*, Metalurgia, 52(3), pp. 17-25, 2000, ISSN 0461-9579 (Indexată ProQuest)
- Rn 38 **L.G.Bujoreanu**, M.L.Craus and M.Taşcă, *The stress-induced crystallographic reorientation in polycrystalline superelastic shape memory alloys*, Bul. Inst. Polit. Iași, t. XLV(IL), fasc. 3-4, sec. St. Ing. Mater., pp. 243-250, 1999, ISSN 1453-1690 (Indexată Ulrich's)
- Rn 39 **L.G.Bujoreanu**, *Transformările martensitei de călire sub efectul tensiunii aplicate, într-un aliaj superelastic Cu-Zn-Al, cu memoria formeii*, Metalurgia, 51(8), pp. 64-69, 1999, ISSN 0461-9579 (Indexată ProQuest)
- Rn 40 **L.G.Bujoreanu**, S.Stanciu, A.Dima V.Moldoveanu și L.Craus, *Studiul efectelor tratamentelor termice la un aliaj experimental Cu-Zn-Al cu memoria formeii: II Variația structurii fazice (A study of heat treatment effects in an experimental Cu-Zn-Al shape memory alloy: II. Variation of phasic structure)*, Cercetări Metalurgice și de Noi Materiale (Metallurgy and New Materials Researches), VII(2), pp. 45-60, 1999, ISSN 1221-5503 (Indexată British Library)
- Rn 41 **L.G.Bujoreanu**, A.Dima, S.Stanciu, V.Moldoveanu și L.Zaharia, *Studiul efectelor tratamentelor termice la un aliaj experimental Cu-Zn-Al cu memoria formeii: I. Variația comportamentului pseudoelastic la tracțiune (A study of heat treatment effects in an experimental Cu-Zn-Al shape memory alloy: I. Variation of tensile pseudoelastic behavior)*, Cercetări Metalurgice și de Noi Materiale (Metallurgy and New Materials Researches), VII(1), pp. 57-67, 1999, ISSN 1221-5503 (Indexată British Library)
- Rn 42 S.Stanciu, **L.G.Bujoreanu**, G.Calugaru and D.Vasilii, *Dependența curbelor R-T de tehnologia de prelucrare a unii aliaj cu memoria formeii Cu-Al-Ni*, Metalurgia, 50(9-10), pp. 59-63, 1998, ISSN 0461-9579 (Indexată ProQuest)
- Rn 43 S.Stanciu, **L.Bujoreanu**, M.L.Craus, V.Dia and D.Răileanu, *Cercetări experimentale privind efectul deformării plastic asupra martensitei γ_1 din aliajele cu memoria formeii*, Metalurgia, 50(7), 27-30, 1998, ISSN 0461-9579 (Indexată ProQuest)
- Rn 44 V.Bulancea, **L.G.Bujoreanu**, A.Dima, S.Stanciu, V.Moldoveanu and M.Temneanu *Metodă pentru producerea și educarea actuatorilor electrici dintr-un aliaj Cu-Zn-Al cu memoria formeii (Method for producing and training electrical actuators from an experimental Cu-Zn-Al shape memory alloy)*, Cercetări metalurgice și de noi material (Metallurgy and New Materials Researches), V(4), pp. 12-24, 1997, ISSN 1221-5503 (Indexată British Library)
- Rn 45 **L.G.Bujoreanu**, S.Stanciu, L.M.Craus and V.Dia, *Studiul unui AMF experimental de tip Cu-Zu-Al. Analiza metalografică optică, difractometrică și la tracțiune a efectelor produse de tratamentul termic secundar (II)*, Metalurgia,

- 49(1), pp. 99-107, 1997, ISSN 0461-9579 (Indexată ProQuest)
- Rn 46 **L.G.Bujoreanu**, L.M.Craus, S.Stanciu and V.Dia, *Tempering effects in a shape memory alloyed experimental brass*, Metalurgia (English version), II(1), pp. 5-10, 1997, ISSN 1582-2214 (Indexată ProQuest)
- Rn 47 S.Stanciu, **L.G.Bujoreanu** and E.Andrei, Experiments for obtaining some elements from a Cu-Al-Ni memory alloy, by means of castings, Bul. Inst. Polit. Iași, t. XLII(XLVI), f. 3-4, sec. IX, St. Ing. Mater., pp. 421-425, 1996, ISSN 1453-1690 (Indexată Ulrich's)
- Rn 48 **L.G.Bujoreanu**, S.Stanciu, M.L.Craus and M. Susan, *Annealing effects in an experimental Cu₇₃Zn₁₄Al₁₃ shape memory alloy – III. A X-ray diffraction study of phasic structure*, Bul. Inst. Polit. Iași, t. XLII(XLVI), fasc. 3-4, sec. IX, St. Ing. Mater., pp. 287-290, 1996, ISSN 1453-1690 (Indexată Ulrich's)
- Rn 49 **L.G.Bujoreanu**, S.Stanciu, A.Dima and V.Moldoveanu, *Annealing effects in an experimental Cu₇₃Zn₁₄Al₁₃ shape memory alloy – II. A metallographic study of phasic structure*, Bul. Inst. Polit. Iași, t. XLII(XLVI), fasc. 3-4, sec. IX, St. Ing. Mater., pp. 281-286, 1996, ISSN 1453-1690 (Indexată Ulrich's)
- Rn 50 **L.G.Bujoreanu**, S.Stanciu, V.Dia and Mariana Pruteanu, *Annealing effects in an experimental Cu₇₃Zn₁₄Al₁₃ shape memory alloy - I. Variation of tensile behaviour and pseudoelasticity parameters*, Bul. Inst. Polit. Iași, t. XLII(XLVI), fasc. 3-4, sec. IX, St. Ing. Mater., pp. 277-280, 1996, ISSN 1453-1690 (Indexată Ulrich's)
- Rn 51 M.Susan, I.Mălureanu, **L.G.Bujoreanu**, P.Vizureanu și V.Dia, *Cercetări privind trefilarea sârmelor din oțeluri de rulmenți în camp ultrasonor. Partea a II a. Influența ultrasunetelor asupra forței de trefilare pe seria de tragere și modificări ale caracteristicilor mecanice*, Metalurgia, 48(10), pp. 69-73, 1996, ISSN 0461-9579 (Indexată ProQuest)
- Rn 52 M.Susan, I.Mălureanu, **L.G.Bujoreanu**, P.Vizureanu, V.Solomon și V.Dia, *Cercetări privind trefilarea sârmelor din oțeluri de rulmenți în camp ultrasonor. Partea I. Gradul de reducere a forței medii de frecare la contactul metal-sculă (coeficientul ϕ) și influența vitezei de tragere*, Metalurgia, 48(10), pp. 64-68, 1996, ISSN 0461-9579 (Indexată ProQuest)
- Rn 53 **L.G.Bujoreanu**, S.Stanciu, L.M.Craus și V.Dia, *Studiul unui AMF experimental de tip Cu-Zu-Al. Analiza metalografică optică și difractometrică a efectelor produse de tratamentul termic primar (I)*, Metalurgia, 48(8-9), pp. 84-91, 1996, ISSN 1453-1690 (Indexată ProQuest)
- Rn 54 **L.G.Bujoreanu**, S.Stanciu, Carmen Păduraru, Lavinia Teofan și V.Dia, *Dependența parametrilor de pseudoelasticitate din istoria mecanică și termică a unei alame experimentale cu memoria formei*, Metalurgia, 48(8-9), pp. 59-66, 1996, ISSN 0461-9579 (Indexată ProQuest)
- Rn 55 V.Dia, **L.G.Bujoreanu** and S.Stanciu, *Pseudoelasticitate de transformare și de maclare într-un aliaj cu memoria formei de tip Cu-Al-Ni (Transformational and twinning pseudoelasticity in a Cu-Al-Ni shape memory alloy)*, Cercetări Metalurgice și de Noi Materiale (Metallurgy and New Materials Researches), III(1), pp. 47-54, 1995, ISSN 1221-5503 (Indexată British Library)
- Rn 56 **L.G.Bujoreanu**, S.Stanciu și V.Dia, *Formarea maclelor de tip II în aliajele pseudoelastice, tip Cu-Al-Ni, cu memoria formei*, Metalurgia, 47(9-10), pp. 87-93, 1995, ISSN 0461-9579 (Indexată ProQuest)
- Rn 57 D.G.Gălușcă, C.Munteanu, I.Rusu, G.Donțu, **L.G.Bujoreanu** and I.Apachiței, *Comparative studies concerning structural configuration and mechanical properties of some thermo-chemically treated steels*, Bul. Inst. Polit. Iași, t. XL(XLIV), fasc. 1-2, sec. IX, St. Ing. Mater., pp. 310-317, 1994 (Indexată Ulrich's)
- Rn 58 S.Stanciu, **L.G.Bujoreanu** and G.Calugaru, *Analysis of the variation of electrical resistance during the martensitic transformation in Cu-based shape memory alloys*, Bul. Inst. Polit. Iași, t. XL(XLIV), fasc. 1-2, sec. IX, St. Ing. Mater., pp. 165-172, 1994 (Indexată Ulrich's)
- Rn 59 S.Stanciu, **L.G.Bujoreanu** and V.Dia, *Metallographic study of the influence of chemical composition on the structure of shape memory bronzes*, Bul. Inst. Polit. Iași, t. XL(XLIV), fasc. 1-2, sec. IX, St. Ing. Mater., pp. 157-164, 1994 (Indexată Ulrich's)
- Rn 60 **L.G.Bujoreanu**, S.Stanciu and T.Rotaru, *Training by pseudoelastic cycling of a shape memory alloyed experimental brass. II. Heat treatment effects*, Bul. Inst. Polit. Iași, t. XL(XLIV), fasc. 1-2, sec. IX, St. Ing. Mater., pp. 90-95, 1994 (Indexată Ulrich's)
- Rn 61 **L.G.Bujoreanu**, S.Stanciu and I.Hopulele, *Training by pseudoelastic cycling of a shape memory alloyed experimental brass. I. Stress effects*, Bul. Inst. Polit. Iași, t. XL(XLIV), fasc. 1-2, sec. IX, St. Ing. Mater., pp. 83-89, 1994 (Indexată Ulrich's)
- Rn 62 **L.G.Bujoreanu**, S.Stanciu and M.Stoica, *Analysis of the shape memory behaviour for a Cu-Zn-Al experimental alloy*, Bul. Inst. Polit. Iași, t. XL(XLIV), fasc. 1-2, sec. IX, St. Ing. Mater., pp. 74-82, 1994 (Indexată Ulrich's)
- Rn 63 S.Stanciu, **L.G.Bujoreanu**, G.Calugaru și V.Dia, *Cercetări experimentale privind obținerea aliajelor Cu-Al-Ni-Fe-Sn cu efect de memoria formei*, Metalurgia, 46(11-12), pp. 5-7, 1994, ISSN 0461-9579 (Indexată ProQuest)
- Rn 64 **L.G.Bujoreanu**, S.Stanciu și V.Dia, *Stabilizare și comportament termomecanic ciclic la un aliaj cu memoria formei de tip Cu-Al-Ni*, Metalurgia, 46(10), pp. 47-50, 1994, ISSN 0461-9579 (Indexată ProQuest, Compendex)
- Rn 65 **L.G.Bujoreanu**, S.Stanciu și V.Dia, *Efectul vitezei de deformare asupra pseudoelasticității de transformare la aliajele cu memoria formei*, Metalurgia, 46(10), pp. 38-46, 1994, ISSN 0461-9579 (Indexată ProQuest, Compendex)
- Rn 66 **L.Bujoreanu**, S.Stanciu și V.Dia, *Comportament elastic behaviour al unui aliaj Cu-Al-Ni cu memoria formei*, Metalurgia, 46(9), pp. 12-17, 1994, ISSN 0461-9579 (Indexată ProQuest, Compendex)
- Rn 67 I.Alexandru, M.Susan, C.Baciu, V.Bulancea, **L.G.Bujoreanu** and Maria Baciu *The influence of the ultrasonic field on the structural changes at the hardening of ball-bearing steels*, Bul. Inst. Polit. Iași, t. XXXVI (XL), fasc. 1-4, Constr. Mas., pp. 149÷154, 1990 (Indexată Ulrich's)

II4 Lucrări publicate în volumele conferințelor internaționale

Vi1. **Leandru-Gheorghe BUJOREANU**, Gheorghe GURAU, Radu-Ioachim COMANEI, 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
- Vi2. 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*, Proceedings of the International Conference on Shape Memory and Superelastic Technologies, May 20–24, 2013, Prague, Czech Republic, pp. 366-367, Product cod: ZCP2013SMST366, Indexată în ASM.International
- Vi3. Bogdan Pricop, Nicoleta Monica Lohan, Adrian-Liviu Paraschiv, Marius-Gabriel Suru, **Leandru-Gheorghe Bujoreanu**, Burak Özkal, Umut Söyler, Jan Van Humbeeck, *Influence of mechanically alloyed fraction and hot rolling temperature on the structure of Fe-14Mn-6Si-9Cr-5Ni (mass. %) shape memory alloys processed by powder metallurgy*, Proceedings of the International Conference on Shape Memory and Superelastic Technologies, May 20–24, 2013, Prague, Czech Republic, pp. 85-86, Product cod: ZCP2013SMST085, Indexată în ASM.International
- Vi4. A. Umut Soyler, Prof. Burak Özkal, **Leandru G. Bujoreanu**, *Sintering Densification and Microstructural Characterization of Mechanical Alloyed Fe-Mn-Si based Powder Metal System*, Proceedings of the International Conference on Shape Memory and Superelastic Technologies, May 20–24, 2013, Prague, Czech Republic, pp. 81-82, Product cod: ZCP2013SMST081, Indexată în ASM.International
- Vi5. A. Umut Soyler, Prof. Burak Özkal, **Leandru G. Bujoreanu**, *Effect of Cold Deformation On the Microstructure and Transformation Properties of Mechanical Alloyed Fe–14Mn–6Si–9Cr–5Ni Shape Memory Alloy*, Proceedings of the International Conference on Shape Memory and Superelastic Technologies, May 20–24, 2013, Prague, Czech Republic, pp. 79-80, Product cod: ZCP2013SMST079, Indexată în ASM.International
- Vi6. Carmela Gurau, Gheorghe Gurau, **Leandru-Gheorghe Bujoreanu**, *High Pressure Torsion effects on Shape Memory behavior of Fe-Mn-Si-Cr alloys*, Proceedings of the International Conference on Shape Memory and Superelastic Technologies, May 20–24, 2013, Prague, Czech Republic, pp. 65-66, Product cod: ZCP2013SMST065, Indexată în ASM.International
- Vi7. Adrian-Liviu Paraschiv, Marius-Gabriel Suru, Nicoleta Monica Lohan, Bogdan Pricop, **Leandru-Gheorghe Bujoreanu**, Firuța Borza, Nicoleta Lupu, *Factors influencing the structure and proprieties of polycrystalline magnetic Fe-Ni-Co-Al-Ta-B shape memory alloys*, Proceedings of the International Conference on Shape Memory and Superelastic Technologies, May 20–24, 2013, Prague, Czech Republic, pp. 27-28, Product cod: ZCP2013SMST027, Indexată în ASM.International
- Vi8. Nicoleta-Monica Lohan, Bogdan Pricop, Adrian-Liviu Paraschiv, Marius-Gabriel Suru, **Leandru-Gheorghe Bujoreanu**, *Cooling rate effects on the structure and transformation behavior of Cu-Zn-Al shape memory alloys subjected to differential scanning calorimetry analysis*, Proceedings of the International Conference on Shape Memory and Superelastic Technologies, May 20–24, 2013, Prague, Czech Republic, pp. 21-22, Product cod: ZCP2013SMST021, Indexată în ASM.International
- Vi9. **Leandru-Gheorghe Bujoreanu**, Nicoleta Monica Lohan, Bogdan Pricop, Adrian-Liviu Paraschiv, Marius-Gabriel Suru, Nicanor Cimpoeșu, Gigi Vitel, Gheorghe Gurău, *Atomic migration variation as an effect of thermomechanical cycling in shape memory actuators*, Proceedings of the International Conference on Shape Memory and Superelastic Technologies, May 20–24, 2013, Prague, Czech Republic, pp. 3-4, Product cod: ZCP2013SMST003, Indexată în ASM.International
- Vi10. Marius-Gabriel SURU, Burak ÖZKAL, **Leandru-Gheorghe BUJOREANU**, *Surface relief particularities in shape memory alloys*, 16th International Metallurgy & Materials, IMMC 2012, Istanbul, Turkey, 13-15 September, 2012, pp. 689-694
- Vi11. Adrian-Liviu PARASCHIV, Burak ÖZKAL, **Leandru-Gheorghe BUJOREANU**, *Chemical composition and thermomechanical processing effects in Fe-Cr base shape memory alloys*, 16th International Metallurgy & Materials, IMMC 2012, Istanbul, Turkey, 13-15 September, 2012, pp. 695-701
- Vi12. Vasile DIA, Umut SÖYLER, Bogdan PRICOP, Burak ÖZKAL, **Leandru-Gheorghe BUJOREANU**, *Characterization of mechanically alloyed Fe-Mn-Si-Cr-Ni shape memory alloys. Hot rolling effects*, 15th International Metallurgy & Materials, IMMC 2010, Istanbul, Turkey, 11-13 November, 2010, pp. 1071-1075
- Vi13. **L.G.Bujoreanu**, I.Ioniță, D.G.Galușcă and C.Munteanu, *The role of secondary stress induced martensite micro plates upon single and two way shape memory effects in a Cu-Zn-Al alloy*, 12th Metallurgy & Materials Congress, September 28 – October 02 2005 Istanbul – Turkey, CD-ROM, pp. 1139-1146, 2005
- Vi14. C.Munteanu, **L.G.Bujoreanu** and F.Brânză, *Processing and characterizing the alloys from Fe_{37.5}Ni_{32.5-x}Cr₅Co_xB₁₅Si₁₀ system*, 12th Metallurgy & Materials Congress, September 28 – October 02 2005 Istanbul – Turkey, CD-ROM, pp. 1147-1153, 2005
- Vi15. D.G.Gălușcă, O.Petruș, **L.G.Bujoreanu**, I.Ioniță and C.Munteanu *Mathematical modeling and nonlinear optimization of the ion-nitriding process*, 12th Metallurgy & Materials Congress, September 28 – October 02 2005 Istanbul – Turkey, CD-ROM, pp. 1298-1303, 2005
- Vi16. Dia, **L.G. Bujoreanu** and V. Plugaru, *Thermal cycling behaviour of a Cu-Zn-Al-Fe SMA bending actuator*, The 13th Micromechanics Europe Workshop, MME '02, October 6-8, 2002, Sinaia, pp. 279-282, 2002, ISBN 973-0-02472-3
- Vi17. **L.G.Bujoreanu**, *Method to increase energy storage efficiency in a Cu-Zn-Al-Fe SMA*, *Second International Conference on ADVANCED MATERIALS AND STRUCTURES, 19-21 September 2002, Editura Orizonturi Universitare, Timișoara 2002, pp. 51-56, 2002, ISBN 973-8391-50-4*
- Vi18. **L.G.Bujoreanu**, S.Stanciu, I.Hopulele. and V.Dia, *The balance between thermal expansion and shape memory effect in a tensioned Cu-Al-Ni - type alloy, subjected to constrained recovery*, Metal '96, The 5th International Metallurgical Symposium, 14-16 May 1996, Ostrava, Czech Republic, pp. 152-158, 1996

- Vi19. S.Stanciu, **L.G.Bujoreanu**, G.Calugaru and V.Dia, *Analysis of the capacity to produce work in shape memory alloys*, Metal '96, The 5th International Metallurgical Symposium, 14-16 May 1996, Ostrava, Czech Republic, pp. 159-163, 1996
- Vi20. V.Dia, **L.G.Bujoreanu** and S.Stanciu, *Transformational and twinning pseudoelasticity in a Cu-Al-Ni shape memory alloy*, Metal '96, The 5th International Metallurgical Symposium, 14-16 May 1996, Ostrava, Czech Republic, pp. 175-179, 1996
- Vi21. **L.G.Bujoreanu**, *Variation of pseudoelasticity parameters during mechanical cycling of a shape memory alloyed experimental brass*, Conferința internațională de comunicări științifice "Tehnologii moderne în construcția de mașini TMCM '96", Vol. II, Tehnologii de deformare plastică la rece, Iași, 24-25 May 1996, pp. 161-169, 1996, ISBN 9975-910-00-9
- Vi22. **L.G.Bujoreanu**, D.Luca and C.Stan, *Heat treatment effects in a shape memory Cu-Zn-Al experimental alloy: I. Pseudoelastic behaviour*, Conferința internațională de comunicări științifice "Tehnologii moderne în construcția de mașini TMCM '96", Vol. II, Tehnologii de deformare plastică la rece, Iași, 24-25 May 1996, pp. 170-177, 1996, ISBN 9975-910-00-9
- Vi23. **L.G.Bujoreanu**, L.M.Craus and S.Stanciu *Heat treatment effects in a shape memory Cu-Zn-Al experimental alloy: II. Phasic structure and shape memory effect*, Conferința internațională de comunicări științifice "Tehnologii moderne în construcția de mașini TMCM '96", Vol. II, Tehnologii de deformare plastică la rece, Iași, 24-25 May 1996, pp. 178-186, 1996, ISBN 9975-910-00-9

II5 Lucrări prezentate în cadrul manifestărilor științifice

- E1. Mihai POPA, Florin POPA, Bogdan ISTRATE, Nicoleta Monica LOHAN, Bogdan PRICOP, Leandru-Gheorghe BUJOREANU, *Investigation Of The Effects Caused By Holding Time And Strain Sweep Frequency on The Structure And Properties of An Fe-28Mn-6Si-5Cr (Mass. %) Shape Memory Alloy*, prezentare sub formă de **poster** la 12th International Symposium of Martensitic Transformations, **ESOMAT 2022**, 5-9 september 2022, Ankara, Turcia
- E2. M. POPA, V.D. APOSTOL, N.M. LOHAN, N. CIMPOESU, L.GH. BUJOREANU, *Investigation of some thermomechanical processing effects on the structure and properties of a TiNiCu shape memory alloy*, prezentare sub formă de **poster** (I.PO.7.) la conferința **BRAMAT 2022**, 9 - 12 Martie, 2022, Brașov, ROMANIA
- E3. V.D. APOSTOL, B. PRICOP, M. POPA, L.GH. BUJOREANU, N.M. LOHAN, *The thermo-mechanical behavior of NiTi-x shape memory alloys*, prezentare sub formă de **poster** (I.PO.1.) la conferința **BRAMAT 2022**, 9 - 12 Martie, 2022, Brașov, ROMANIA
- E4. A.P. TEODORIU, B. PRICOP, L.GH. BUJOREANU, *Development of an alternating heat engine actuated by shape memory alloys*, prezentare sub formă de **poster** (I.O.2.) la conferința **BRAMAT 2022**, 9 - 12 Martie, 2022, Brașov, ROMANIA
- E5. L. M. Scripcariu, V. D. Apostol, M. Popa, B. Pricop, E. Matcovschi, N.M. Lohan, N. Cimpoeșu, R. I. Comăneci, V. D. Cojocar, C. Gurău, G. Gurău, M. Vollmer, P. Krooss, T. Niendorf, L. G. Bujoreanu, *Abnormal grain growth effects in FeMnAlNi alloys*, prezentare în plen la la 9th International Conference on Material Science & Engineering (*online*), **UgalMat 2020**, Decembrie 12, 2020, Galati, Romania
- E6. Mihai Popa, Bogdan Pricop, Radu Comaneci, Gheorghe Gurau, Malte Vollmer, Philipp Kroos, Thomas Niendorf & Leandru-Gheorghe Bujoreanu, *Processing effects on tensile superelastic behaviour of $Fe_{43.5}Mn_{34}Al_{15\pm x}Ni_{7.5\mp x}$ shape memory alloys*, **prezentare orală** (A-25) la conferința **ModTech 2019**, 19-22 Iunie, 2019, Iasi, Romania
- E7. Lenuta Ciurca, Nicoleta-Monica Lohan, Bogdan Pricop & Leandru-Gheorghe Bujoreanu, *A study of tensile behaviour of Fe base shape memory alloys during mechanical cycling*, prezentare sub formă de **poster** (A-19) la conferința **ModTech 2019**, 19-22 Iunie, 2019, Iasi, Romania
- E8. Camelia Costache, Victor Apostol, Nicoleta-Monica Lohan, Elena Mihalache & Leandru-Gheorghe Bujoreanu, *Study of some heat treatment effects on thermodynamic and structural properties of Ti-Ta biomedical shape memory alloys*, prezentare **orală** (A-12) (C. Costache) la conferința **ModTech 2019**, 19-22 Iunie, 2019, Iasi, Romania
- E9. V Apostol, N M Lohan, E Mihalache, R I Comăneci, N Cimpoesu, B Pricop, M Popa and **L G Bujoreanu**, *Accumulation of stress induced martensite in $Fe_{43.5}Mn_{34}Al_{15\pm x}Ni_{7.5\mp x}$ shape memory alloys*, prezentare sub formă de **poster** la **EUROINVENT 2019**, 16-18 mai 2019, Iași, Romania
- E10. 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
- E11. M. Popa, E. Mihalache, B. Pricop, **L.G. Bujoreanu**, V.D. Cojocar, *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
- E12. V. Bulbuc, B. Pricop, M. Popa, N. Cimpoeșu, **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
- E13. V. Paleu, G. Gurău, R.I. Comăneci, 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, Galati, Romania
- E14. Bulbuc V., Pricop B., Popa, Mihalache E., Ozkal B., **Bujoreanu L.G.**, *Thermomechanical processing effects on the structure and properties of Fe-based SMAs. I. Evolution of phase structure*, prezentare sub formă de **poster** la 8th International Conference on Material Science & Engineering, **UgalMat 2018**, Octombrie 11-13, 2018, Galati, Romania
- E15. Popa M., Pricop B., Bulbuc V., Mihalache E., Ozkal B., Bujoreanu L.G., *Thermomechanical processing effects on the structure and properties of Fe-based SMAs. II. Evolution of damping behavior*, prezentare sub formă de poster la

- 8th International Conference on Material Science & Engineering, **UgalMat 2018**, Octombrie 11-13, 2018, Galati, Romania
- E16. Popa M, Gurău C, Gurău G, Pricop B, Comănesci RI, Vollmer M, Krooß P, Niendorf T, **Bujoreanu LG**, *On the structure and properties of $Fe_{43.5}Mn_{34}Al_{15-x}Ni_{7.5+x}$ shape memory alloys*, prezentare sub formă de **poster** la 11th International Symposium of Martensitic Transformations, **ESOMAT 2018**, 27-31 august 2018, Metz, Franța
- E17. M. Popa, E. Mihalache, V. D. Cojocaru, C. Gurău, G. Gurău, N. Cimpoeșu, B. Pricop, R. I. Comănesci, M. Vollmer, P. Krooss, 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
- E18. 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
- E19. 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, Chișinău
- E20. 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
- E21. 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
- E22. 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*, prezentare sub formă de **poster** la Modern Technologies in Industrial Engineering, **ModTech 2017**, 14-17 Iunie, 2017, Sibiu, Romania
- E23. 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.
- E24. 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, Brașov, Romania
- E25. 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, Brașov, Romania
- E26. Lucian BURLACU, Nicanor CIMPOEȘU, 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, Brașov, Romania
- E27. 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, Brașov, Romania
- E28. 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, Iași, Romania
- E29. 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
- E30. 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, București, Romania
- E31. **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*, prezentare sub formă de **poster** la European Symposium on Martensitic Transformations, **ESOMAT 2015**, 14-18 Septembrie, Antwerp, Belgium
- E32. 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
- E33. 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**

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E34. Marius-Gabriel Suru, Nicoleta-Monica Lohan, Bogdan Pricop, Nicanor Cimpoeșu, **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

E35. 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*, **prezentare orală** (E. Mihalache) la secțiunea Fe-based alloys, în data de 15.09.2015, la European Symposium on Martensitic Transformations, **ESOMAT 2015**, 14-18 Septembrie, Antwerp, Belgia

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- 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
- E53. **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
- E54. 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 Braşov, Romania
- E55. 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 Braşov, Romania
- E56. 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
- E57. 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
- E58. **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
- E59. 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*, susținută sub formă de **poster** în cadrul Simpozionului A54 - Shape Memory Alloys (SMA) – Materials and Devices, **EUROMAT 2011** 12-15 September 2011, Montpellier
- E60. 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 secțiunii Metallic Materials 5 de la 15th International Metallurgy and Materials Congress, **IMMC 2010** 11 - 13 November 2010, Istanbul
- E61. B. Pricop, U. Söyler, R. I. Comăneci, B. Özkal, **L. G. Bujoreanu**, *Mechanical cycling effects at Fe-Mn-Si-Cr-Ni SMAs obtained by powder metallurgy*, susținută 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
- E62. S. Stanciu, **L. G. Bujoreanu**, R.I.Comăneci, N. Cimpoeşu, I. Ioniță, V.V.Moldoveanu, *Particularities of phase transitions in thermomechanically processed Cu-Al-Mn shape memory alloys*, susținută sub formă de **poster** la 8th European Symposium on Martensitic Transformations, **ESOMAT 2009** 7-11 September 2009, Prague
- E63. **L. G. Bujoreanu**, S. Stanciu, B. Özkal, R. I. Comăneci, 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
- E64. **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
- E65. Sergiu Stanciu, **Leandru G. Bujoreanu**, Nicanor Cimpoeşu and Iulian Ioniță, *Study of shape memory effect developed by helical springs made from Cu-Al-Ni alloy by lost-wax casting*, susținută sub formă de **poster** la Shape Memory and Superelastic Technologies **SMST 2008**, 21-25 Septembrie, Stresa, Italy
- E66. **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*, susținută sub formă de **poster** la Shape Memory and Superelastic Technologies **SMST 2008**, 21-25 Septembrie, Stresa, Italy
- E67. Sergiu Stanciu, **Leandru G. Bujoreanu**, Iulian Ioniță, 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, Constanța
- E68. **Leandru G. Bujoreanu**, Sergiu Stanciu, Paul Bârsănescu, Nicoleta M. Lohan, *Study of the transitory formation of α₁ 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, Constanța
- E69. **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
- E70. **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

- E71.** M. Susan, **L. G. Bujoreanu**, C. Baci, *Influence of the relative drawing rate at ultrasonic processing of metallic tubes and wires*, sustained on 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
- E72.** **L. G. Bujoreanu**, M. Temneanu, R. Ardeleanu, M. Susan, *Factors influencing the bending reproducible behavior of shape memory electrical actuators*, susținută 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
- E73.** **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, Iași
- E74.** **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 secțiunii 5, *Microstructural characterization*, în cadrul Seventh European Symposium on martensitic Transformation and Shape Memory Alloys, **ESOMAT 2006**, 10-15 Septembrie 2006, Bochum, Germania
- E75.** 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
- E76.** 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
- E77.** 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
- E78.** **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
- E79.** **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
- E80.** **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
- E81.** **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
- E82.** 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 internationale, 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 reținută, 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 studii efectelor acestora, finanțată cu **172.200 RON**

Faza unică pe 2008: Stabilirea efectelor compoziției chimice, stabilirea variantei de tratament termic primar și studii 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 la, 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 la, 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 CEEEX-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 CEEEX-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 CEEEX 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 la', cod CNCSIS 476/2004 Fază 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 la, 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 la 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**

(valoarea medie pe 2003 a granturilor CNCSIS, conform C.C.T.T.Polytech: 68.185.246 ROL)

P12 Membru (C. Baciu - 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), finanțată 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), finanțată 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