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Informații personale

Nume	**Leandru-Gheorghe BUJOREANU**
Adresă	Str. Iordache Lozonschi, Nr. 10, IASI, Romania
Telefon)	0232702287
Fax(es)	
E-mail	lgbujor@tuiasi.ro;
Naționalitate	Română
Data nașterii	

Domenii de competență

Aliaje cu memoria formei pe bază de Ti-Ni, Cu-Zn-Al, Cu-Al-Ni, Fe-Mn-Si și Fe-Mn-Al-Ni

Fenomene de memoria formei în aliajele, materiale ceramice și polimeri

Încercarea la tracțiune

Analiza microscopică optică, prin forță atomică și electronică

Analiză calorimetrică diferențială prin baleiaj

Analiză dilatometrică

Analiză mecano-dinamică

Analiza cristalografică

Experiență profesională

1984-1986	Inginer tehnolog, Atelierul de Prelucrări Mecanice Mijlocii și Grele, Secția Utilaj Metalurgic, Combinatul de Utilaj Greu Iași
1986-1987	Inginer proiectant, Atelierul de Avizări și Proiectare Constructivă, Combinatul de Utilaj Greu Iași
1987-1990	Asistent suplinitor, catedra Tehnologia Metalelor, Facultatea de Mecanică, Institutul Politehnic „Gheorghe Asachi" Iași
1990-1993	Asistent titular, catedra Tehnologia Metalelor, Facultatea de Știința și Ingineria Materialelor, Universitatea Tehnică „Gheorghe Asachi" din Iași
1993-1999	Șef de lucrări, catedra Tehnologia Metalelor, Facultatea de Știința și Ingineria Materialelor, Universitatea Tehnică „Gheorghe Asachi" din Iași
1999-2008	Conferențiar, catedra Tehnologia Metalelor, Facultatea de Știința și Ingineria Materialelor, Universitatea Tehnică „Gheorghe Asachi" din Iași
2008-	Profesor, catedra Ingineria Materialelor și Securitate Industrială, Facultatea de Știința și Ingineria Materialelor, Universitatea Tehnică „Gheorghe Asachi" din Iași
2009-	Conducere de doctorat în domeniul Ingineria Materialelor

Pregătire profesională

1976-1978	Liceul „Emil Racoviță" Iași, Clasa specială de fizică (Prof. Seryl Talpalaru),
1979-1984	Institutul Politehnic Iași, Facultatea de Mecanică, specializarea Tehnologia Contrucțiilor de Mașini
1992-1997	Teză de doctorat „Tehnologie și utilaje de obținere a unor aliaje cu memoria formei", Universitatea Tehnică „Gheorghe Asachi" din Iași

Stagii de cercetare și predare externă	
3.11-1.12.2002	Cadru didactic vizitator la Centrul Special de Cercetare SFB459, Ruhr-Universität Bochum Bochum, Germania
28.02-29.04.2005	Cadru didactic vizitator la Centrul Special de Cercetare SFB459, Ruhr-Universität Bochum Bochum, Germania
15.11-15.12.2005	Cercetător invitat la Institutul Național de Știința Materialelor,Tsukuba, Japonia
12-21.11.2006	Cadru didactic vizitator la Institutul Național de Științe Aplicate, Rennes, Franța
14.02-18.03.2007	Cercetător invitat la Institutul Național de Știința Materialelor,Tsukuba, Japonia
1-15.11.2007	Cadru didactic vizitator la Laboratorul de Materiale Particulate, Universitatea Tehnică Istanbul, Turcia
26.11-3.12.2007	Cadru didactic vizitator la Școala Regală Militară, Bruxelles, Belgia
13.02-6.04.2008	Cercetător invitat la Institutul Național de Știința Materialelor,Tsukuba, Japonia
26.05-5.06.2008	Cadru didactic vizitator la Departamentul de Materiale de la Universitatea Catolică Leuven, Belgia
14-26.07.2008	Curs de instruire practică la NETZSCH-Gerätebau GmbH Headquarters, Selb, Bayern, Germania
4-14.05.2009	Cadru didactic vizitator la Laboratorul de Materiale Particulate, Universitatea Tehnică Istanbul, Turcia
10-16.05.2010	Cadru didactic vizitator la Laboratorul de Materiale Particulate, Universitatea Tehnică Istanbul, Turcia
7-11.10.2013	Cadru didactic vizitator la Laboratorul de Materiale Particulate, Universitatea Tehnică Istanbul, Turcia
4-7.02.2018	Prezentare orală și schimb de experiență la Institutul de Tehnica Materialelor, Universitatea Kassel

Cursuri predate	
1990-1991	*Studiul metalelor şi tratamente termice*, anul I, specializarea Maşini Unelte, Facultatea de Construcţii de Maşini
1993-1995	*Tratamente termice şi termochimice*, anul V şi VI seral, specializarea Deformări Plastice şi Tratamente Termice, Facultatea de Ştiinţa şi Ingineria Materialelor
1993-2005	*Studiul materialelor*, anul I, Colegiul Universitar Tehnic și Facultăţile de Mecanică, Construcţii de Maşini şi Ştiinţa şi Ingineria Materialelor
1997-1999	*Bazele teoretice tehnologice şi aplicative ale aliajelor cu memoria formei*, anul II, Colegiul Universitar Tehnic
1998-1999	*Materiale cu memoria formei şi alte materiale speciale*, anul I, trunchi comun, Facultatea de Mecanică
2000-2002	*Materiale amorfe*, anul V, specializarea Ştiinţa Materialelor, la Facultatea de Ştiinţa şi Ingineria Materialelor
2002-2005	*Materiale inteligente*, anul III, specializarea Controlul Proiceselor Metalurgice, Facultatea de Ştiinţa şi Ingineria Materialelor
2002-2008	*Materiale inteligente*, anul IV, specializarea Ştiinţa Materialelor, Facultatea de Ştiinţa şi Ingineria Materialelor
2005-2006	*Materiale nanocristaline şi amorfe*, masterat Materiale Avansate şi Tehnici de Analiză Experimentală, Facultatea de Ştiinţa şi Ingineria Materialelor
2004-	*Materiale nemetalice cu memoria formei*, masterat Materiale Avansate şi Tehnici de Analiză Experimentală, Facultatea de Ştiinţa şi Ingineria Materialelor

2006-	*Superaliaje*, masterat Materiale Avansate şi Tehnici de Analiză Experimentală, Facultatea de Ştiinţa şi Ingineria Materialelor
2010-	*Materiale Electro- și Magnetoreologice*, masterat Materiale Avansate şi Tehnici de Analiză Experimentală, Facultatea de Ştiinţa şi Ingineria Materialelor
2020-	Dispozitive tehnologice, licență Ingineria Securității în Industrie
Membru al asociațiilor profesionale	
2009-	Președintele Comisiei de susţinere a examenului de disertaţie, masterat Materiale Avansate şi Tehnici de Analiză Experimentală, Facultatea de Ştiinţa şi Ingineria Materialelor
2011-2020	Membru în Comisia Ingineria Materialelor și Nanotehnologii din cadrul Consiliului Național de Atestare a Titlurilor, Diplomelor și Certificatelor Universitare
2000-	Membrul al Asociaţiei Generale a Inginerilor din România
2008-	Membru al American Society of Materials (ASM)
Activitate de Evaluare și Expertiză	
2005-	•Expert CNCS/ UEFISCDI, evaluator proiecte tip A, CEEX, TD, IDEI, PD, PTE
2008-	Referent științific pentru reviste cotate ISI: (i) Journal of Materials Engineering and Performance; (ii) Journal of Alloys and Compounds; (iii) Journal of Applied Polymer Science; (iv) Materials Manufacturing and Processes; (v) Materials Science and Engineering A și B; (vi) Smart Material Structures; (vii) Thermochimica Acta; (viii) Advanced Engineering Materials; (ix) IEEE Transactions on Industrial Electronics; (x) International Journal of Materials and Product Technology; (xi) International Journal of Nonferrous Metallurgy; (xii) Journal of Materials Design; (xiii) International Journal of Materials Research; (xiv) Journal of Non-crystalline Solids; (xv) Materials Chemistry and Physics; (xvi) Materials Letters; (xvi) Science and Engineering of Composite Materials; (xvii) Shape Memory and Superelasticity; (xviii) Nature Communications; (xix) Journal of Materials Research and Technology
2009	Evaluator pentru Georgia National Science Foundation (GNSF)
2010	Evaluator pentru Fundația de Cercetare a Flandrei (Fonds Wetenschappelijk Onderzoek-FWO)
2015	Evaluator pentru LE STUDIUM Loire Valley Institute for Advanced Studies, Franța
2017	Evaluator pentru GRIS Czech Science Foundation, Republica Cehă
2020	Evaluator extern, pentru *Department of Metallurgical and Materials Engineering, Indian Institute of Technology Madras*, al tezei de doctorat „Synthesis, hot deformation behaviour and biocompatibility of some NiTi-based ternary shape memory alloys" autor Sampath SANTOSH
Aptitudini și competențe personale	
Limbi străine	Engleză și Franceză – avansat; Germană - începător
Competențe manageriale	
	Director de studii de masterat Materiale Avansate şi Tehnici de Analiză Experimentală, Facultatea de Ştiinţa şi Ingineria Materialelor
	Director a două granturi CNCSIS de tip A, al unui proiect PARTENERIATE și a trei proiecte IDEI, câștigate prin competiție națională finanțate, în total, cu 4.687.038 RON. Responsabil din partea UT Iasi al unui proiect PED, in derulare între 2020-2022
	Director interimar al Școlii Doctorale (2012-2013) și Director al Consiliului de Coordonare a Programelor Doctorale (din 2020) de la Facultatea de Știința și Ingineria Materialelor, UT Iasi
Științifice	

Conferințe invitate:

- Penary speaker la
  - 9th International Conference on Material Science & Engineering (*online*), **UgalMat 2020**, Decembrie 8-9, 2020, Galati, Romania
  - 8th International Conference on Material Science & Engineering, **UgalMat 2018**, Octombrie 11-13, 2018, Galati, Romania
  - Seventh International Congress in Materials Science and Engineering, **ISSIM 2009**, 29-31 May, 2009, Iași, Romania
  - Sixth International Congress in Materials Science and Engineering, 24-26 Mai, 2007, Iași, Romania
- Keynote speaker la 5th International Conference on Powder Metallurgy & Advanced Materials, **RoPM&AM2017**, 17-20 septembrie 2017, Cluj-Napoca, Romania
- Invited speaker la:
  - 7th European Symposium on Martensitic Transformation and Shape Memory Alloys, **ESOMAT 2006**, 10-15 Septembrie 2006, Bochum, Germania
  - Modern Technologies in Industrial Engineering, **ModTech 2014**, 13-15 Iulie 2014, Gliwice, Polonia

Co-autor la:

- 10 cărți, 4 îndrumare, 6 capitole și 3 cursuri on-line
- 185 de lucrări științifice dintre care 96 în reviste indexate în ISI Web of Science (66 de articole);
- 75 de lucrări prezentate în manifestări științifice internaționale (3 plenare, 2 invitate, 1 keynote și 22 orale)
- 17 proiecte de cercetare (6 ca Director, 1 ca Responsabil)

774 de citări în ISI Web of Science, indice Hirsch h=16

Anexe Lista de lucrări

Prof.dr.ing. Leandru-Gheorghe BUJOREANU

LISTA DE LUCRĂRI

I. ACTIVITATEA DIDACTICĂ

I.1. Cărţi/cursuri (capitole teoretice redactate) publicate în edituri recunoscute (Ca)

Ca1. Rodinel Ardeleanu, **Leandru-Gheorghe Bujoreanu**, Gabriela Săcărescu, Liviu Săcărescu şi Mihaela Simionescu, *Materiale nemetalice cu memoria formei. Structură-proprietăţi-aplicaţii*, Editura tehnică, ştiinţifică şi didactică CERMI, Iaşi, 219 pagini, 2007, ISBN 978-973-667-291-0

I.1.1. M.Nicu, N.Bâlbă, **L.G.Bujoreanu**, S.Stanciu şi F.Apostu, *Ştiinţa şi ingineria materialelor. Vol. III Materiale moderne*. Ediţia a-II-a; Editura ECOZONE, Iaşi, 188 pagini, 2006, ISBN Vol III: 973-7645-21-9

I.1.2. **L.G.Bujoreanu**, G.Roşescu şi I.Avram, *Studiul materialelor din construcţia de maşini*, Editura Ştiinţifică "Fundaţia Metalurgia Română", Bucureşti, 321 pagini;1998, ISBN 973-98314-5-1

I.1.3. G.Calugaru, **L.G.Bujoreanu**, S.Stanciu, I.Hopulele, R.Căliman, O.L.Turcu şi I.Apachiţei *Memoria formei. Fenomene şi aplicaţii în ştiinţa materialelor,* Editura „Plumb", Bacău, 208 pagini, 1995, ISBN 973-9150-50-0

I.1.4. G.Calugaru, I.Apachiţei, R.Căliman, O.L.Turcu şi **L.G.Bujoreanu,** *Materiale avansate. Pulberi metalice amorfe,* Editura "Plumb", Bacău, 218 pagini, 1995, ISBN 973-9150-49-7

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

I.2.1. **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

I.2.2. **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

I.2.3. **L.G.Bujoreanu,** *Materiale Electro şi 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

I.3.1. C.Baciu, C.Munteanu, I.Rusu, **L.G.Bujoreanu**, Maria Baciu şi I.Apachiţei *Îndrumar pentru laborator. Studiul metalelor, Vol. I,* Rotaprint, I.P.Iaşi, 186 pagini, 1992

I.3.2. **L.G.Bujoreanu** şi S.Stanciu, *Materiale cu memoria formei. Metode practice de analiză* Editura "Cermi", Iaşi, 144 pagini, 1998, ISBN 973-9378-28-5

I.3.3. **L.G.Bujoreanu** şi C.Baciu, *Studiul materialelor. Teste şi aplicaţii,* Editura tehnică, ştiinţifică şi didactică CERMI, Iaşi, 198 pagini, 2003, ISBN 973-8188-69-5

I.3.4. Nicoleta Monica Lohan, Bogdan Pricop, **Leandru-Gheorghe Bujoreanu**, *Tehnici avansate de analiză termică. Indrumar de laborator*, Editura Performantica, Iași, 138 pagini, 2020, ISBN 978-606-685-736-9

II. CONTRIBUŢII ŞTIINŢIFICE LA DEZVOLTAREA DOMENIULUI

II.1 Cărţi (capitole) de specialitate publicate în edituri din ţară (recunoscute CNCSIS) sau din străinătate (Cb)

II.1.1. Cb1 Nicoleta-Monica Lohan, **Leandru-Gheorghe Bujoreanu**, Development of experimental CuZnAl-based shape memory actuators, in: Research and Innovation in Advanced Engineering Materials, Editors: Makio Naito, Andrej Buchacz, Andrej Baier, Pavel Topala, Dumitru Nedelcu, ModTech Publishing House, Iași 2019, pp. 78-92, ISBN 978-606-93704-5-2

II.1.2. Cb2 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.

II.1.3. Cb3 **Leandru-Gheorghe Bujoreanu**, Bogdan Pricop, Nicoleta Monica Lohan, Marius-Gabriel Suru, Bogdan Istrate, *Chapter 7 Structural and Chemical Variations Induced by Thermomechanical Cycling in Shape Memory Actuators*, in: Frontiers in Materials Processing, Applications, Research and Technology, Select Proceedings of FiMPART 2015, Editors: Muruganant, M., Ali, Chirazi, Raj, Baldev, Springer Nature, Singapore, 2018, pp. ,63-74, ISBN 978-981-10-4818-0,

II.1.4. Cb4 **L.G.Bujoreanu,** *Formation of transitory bainite as a precursor of α-phase during tempering of martensitic Cu-Zn-Al SMAs*, in Encyclopedia of Materials Science Research, Volume 1, Editors: Batukhan B. Chinbat and Sora H. Mori, Nova Science Publishers 2012, pp. 263-283, ISBN 978-1-61209-954-5

II.1.5. Cb5 **L.G.Bujoreanu,** *Chapter 9. Formation of transitory bainite as a precursor of α-phase during tempering of mastensitic Cu-Zn-Al SMAs*, in Shape Memory Alloys: Manufacture, Properties and Applications, Editor H.R. Chen, Nova Science Publishers 2011, pp. 267-285, ISBN 978-1-60741-789-7

II.1.6. Cb6 R.Chelariu, **L.G.Bujoreanu**, şi C.Roman, *Materiale metalice biocompatibile cu baza titan,* Editura Politehnium, Iaşi, 215 pagini; 2006, ISBN (10) 973-621-153-3; ISBN (13) 978-973-621-153-9

II.1.7. Cb7 **L.G.Bujoreanu**, S.Stanciu, C.Munteanu şi M.Susan, *Memoria mecanică şi termică a aliajelor pe bază de Cu-Zn-Al,* Editura Politehnium, Iaşi, 183 pagini; 2005, ISBN 973-621-111-8

II.1.8. Cb8 **L.G.Bujoreanu** și C.Munteanu, *Microstructural changes accompanying thermal memory occurrence și stabilization in a Cu-Zn-Al SMA*, Series Advances in Micro- și Nanoengineering, (Editors Irina Kleps, Dan Dascălu și Jose Kenny) Editura Academiei Române, Bucureşti, pp. 110-120, 2004, ISBN 973-27-1110-8,

II.1.9. http://www.acad.ro/carti2005/ear/07MicroNanoengineering.htm,

II.1.10. Cb9 **L.G.Bujoreanu** *Materiale inteligente,* Editura „Junimea", Iaşi, 339 pagini, 2002, ISBN 973-37-0735-X

II.1.11. Cb10 **L.G.Bujoreanu**, V.Dia, E.Drăgulănescu şi G.Roşescu, *Tehnologie şi utilaje de obţinere a unor aliaje cu*

memoria formei. Editura Ştiinţifică "Fundaţia Metalurgia Română", Bucureşti, 166 pagini, 1999, ISBN 973-98314-8-6
II.1.12. Cb11 **L.G.Bujoreanu**, V.Dia şi S.Mărginean, *Tehnologie şi utilaje de obţinere a unor aliaje cu memoria formei. Vol.I,* Editura Ştiinţifică "Fundaţia Metalurgia Română", Bucureşti, 207 pagini, 1998, ISBN 973-98314-2-7

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

Ri 1 *L. Ciurcă, B. Pricop, M. Agop, L.-G. Bujoreanu(autor correspondent), On Bending Creep Behaviour of a Powder Metallurgy FeMnSiCrNi Shape Memory Alloy,* Archives of Metallurgy and Materials, 67 (2022), 3, 901-908
Ri 2 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, 14, 4621, (2021). https://doi.org/10.3390/ma14164621
Ri 3 V. Bulbuc, V. Paleu, B. Pricop, M. Popa, V. Cârlescu, N. Cimpoesu, and **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 Peformance, https://doi.org/10.1007/s11665-021-05837-7.
Ri 4 Bogdan Pricop, Firuta Borza, Burak Ozkal, **Leandru-Gheorghe Bujoreanu (autor correspondent)**, *Influence of Thermal and Mechanical/Powder Processing on M, icrostructure and Dynamic Stiffness of Fe-Mn-Si-Cr-Ni Shape Memory Alloy*, Transactions of the Indian Institute of Metals 74(6), (2021), 1409–1418, https://doi.org/10.1007/s12666-021-02215-8.
Ri 5 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 $Ti_{50}Ni_{30}Cu_{20}$ alloys obtained by different technological processes*, Romanian Journal of Physics **66**, (2021, 601).
Ri 6 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, 7:247, 16 pagini, https://doi.org/10.3389/fmats.2020.00247 ***IMPACT FACTOR pe 2019:*** 2,706
Ri 7 Mihai Popa, Elena Mihalache, Vasile Dănuţ Cojocaru, Carmela Gurău, Gheorghe Gurău, Nicanor Cimpoeşu, 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 Peformance, 29(4), 2020, 274–2282. https://doi.org/10.1007/s11665-020-04609-z ***IMPACT FACTOR pe 2019:*** 1,652
Ri 8 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 Peformance, 28(12) 2019 7273-7280, doi 10.1007/s11665-019-04473-6, ***IMPACT FACTOR :*** 1,652
Ri 9 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 10 Vasile Bulbuc, Bogdan Pricop, Florin Maxim, Mihai Popa, Nicanor Cimpoeşu, **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 11 Mihai Popa, Bogdan Pricop, Elena Mihalache, Vasile Dănuţ 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 12 V Apostol, N M Lohan, E Mihalache, R I Comăneci, N Cimpoeşu, B Pricop, M Popa, **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,* IOP Conf. Series: Materials Science and Engineering 572 (2019) 012032, doi: 0.1088/1757-899X/572/1/012032
Ri 13 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 14 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 15 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, ***IMPACT FACTOR:*** 0,42
Ri 16 V. Bulbuc, B. Pricop, F. Maxim, M. Popa, N. Cimpoeşu, **L. G. Bujoreanu**, *Influence of Dynamic Three Point Bending on the Work Hardening Capacity of T105Mn120 Manganese Steel*, Journal of Materials Engineering and Performance, 27(11), 2018, 6127-6134, DOI: 10.1007/s11665-018-3658-2, ***IMPACT FACTOR:*** 1,652
Ri 17 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 18 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 19 Bogdan Pricop, Elena Mihalache, George Stoian, Firuţa 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.

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Ri 20 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, ***IMPACT FACTOR:*** 3,613

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E38. **L.G. Bujoreanu**, R.I. Comăneci, G. Gurău, N.M.Lohan, M. G. Suru, B. Pricop, V. Goanţă, V. Mușat, B. Istrate, E. Mihalache, *Thermomechanical training effects of multifunctional modules, processed by high-speed high pressure torsion, when subjected to compression loading-unloading cycles*, ***invited speaker*** la Modern Technologies in Industrial Engineering **ModTech 2014**, 13-15 Iulie 2014, Gliwice, Polonia

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

E40. B. Pricop, U. Söyler, B. Özkal, M.G. Suru, N.M. Lohan, R.I. Comăneci, N. Cimpoeşu, V.Mușat, G. Gurău, B. Istrate, E. Mihalache, **L.G. Bujoreanu**, *A study of martensite formation in powder metallurgy Fe-Mn-Si-Cr-Ni shape memory alloys*, ***prezentare orală*** la International Conference on Martensitic Transformations, **ICOMAT 2014**, 6-11 Iulie, 2014, Bilbao, Spania

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

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

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

E44. Marius-Gabriel Suru, Adrian-Liviu Paraschiv, Nicoleta Monica Lohan, Bogdan Pricop, **Leandru-Gheorghe Bujoreanu**, Burak Ozkal, *Loading mode and alloy system effects on surface relief characteristics of martensite plates*

in Cu-based SMAs, prezentare sub formă de ***poster*** la Shape Memory and Superelastic Technologies, **SMST 2013**, 20-24.05.2013, Praga, Republica Cehă

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

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

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

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

E49. I. P. Spiridon, B. Pricop, M. G. Suru, A. L. Paraschiv, N. M. Lohan, **L-G. Bujoreanu**, *The influence of heat treatment atmosphere and maintaining period on the homogeneity degree of a Fe-Mn-Si-Cr-Ni shape memory alloy obtained through powder metallurgy*, prezentată sub formă de ***poster***, la 8th International Conference in Materials Science and Engineering, **BRAMAT 2013**, 28.02-2.03.2013 Brașov, Romania

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

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

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

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

E54. B. Pricop, U. Söyler, R. I. 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

E55. 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

E56. **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

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

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

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

E60. Sergiu Stanciu, **Leandru G. Bujoreanu**, Iulian Ioniţă, Andrei V. Sandu, Alexandru Enache, *A structural-morphological study of a* $Cu_{63}Al_{26}Mn_{11}$ *shape memory alloy*, ***prezentare orală*** la Advanced Topics on Optoelectronics Microtehnologies and Nano Technologies, **ATOM-N 2008** 28-31 August 2008, Constanța

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

E62. **L.G.Bujoreanu**, S. Stanciu, *Results obtained at S.I.M. faculty from U.T.Iaşi in the domain of study, research and development of shape memory alloys*, ***prezentare orală*** la Tenth National Conference of Scientific Research in

High school (CNCSIS 10), 15-17 Mai 2008, Brasov

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

E64. M. Susan, **L. G. Bujoreanu**, C. Baciu, *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

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

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

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

E68. V. Dia, **L. G. Bujoreanu**, S. Stanciu, and C. Munteanu, *Study of shape memory effect in lamellar helical springs made from Cu-Zn-Al SMA,* ***prezentarea*** TP 62, ***sub formă de poster***, în cadrul secţiunii 6, *Cu-based and less common systems* în cadrul Seventh European Symposium on martensitic Transformation and Shape Memory Alloys, **ESOMAT 2006**, 10-15 Septembrie 2006, Bochum, Germania

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

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

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

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

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

E74. **Leandru-Gheorghe Bujoreanu**, Corneliu Munteanu, Iulian Ioniţă 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, Iaşi

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

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

III.1 Contracte de cercetare-dezvoltare internationale, granturi de cercetare-dezvoltare câstigate prin competitie nationala, contracte de cercetare-dezvoltare încheiate cu institute de cercetare, companii, regii, societăţi comerciale în calitate de DIRECTOR/ RESPONSABIL (P)

P1. Responsabil Proiect Experimental Demonstrativ – PED

Sistem compozit inteligent cu configuraţie auto-controlabilă constituit din aliaje cu memoria formei / materiale magnetice amorfe încorporate în matrici elastomerice, contract nr. 321/ 03/08/2020, Cod PN-III-P2-2.1-PED-2019-4138

Faza unică pe 2021: Formarea, caracterizarea şi testarea funcţională a componentelor sistemului compozit inteligent. Fabricarea sistemului compozit inteligent, finanţată cu **103.470 RON**, la nivel de UT Iasi.

Faza unică pe 2020: Prepararea componentelor sistemului compozit inteligent cu configuraţie auto-controlabilă constituit din aliaje cu memoria formei / materiale magnetice amorfe încorporate în matrici elastomerice, finanţată cu **50.770 RON**, la nivel de UT Iasi

P2. Director de Proiect de Cercetare Exploratorie – IDEI

Un studiu al factorilor care favorizeaza termoelasticitatea in 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, finanţată cu **463.280 RON**

Fază unică pe 2018: Analizarea comportamentului superelastic, finanţată cu **204.145 RON**

Fază unică pe 2017: Obţinerea probelor oligocristaline, finanţată cu **182.575 RON**

P3. 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**

P4. 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**

P5. Director de Proiect Proiect de cercetare exploratorie, programul IDEI,

Aplicatii cu revenire retinuta, ale aliajelor cu memoria formei pe baza de Fe-(Mn, Ni)-Si, cu proprietati controlate prin modificari nanostructurale la nivelul martensitei si matricei austenitice, contract nr. 279/ 01.10.2007, cod CNCSIS 301,

Faza unică pe 2010: Obținerea și testarea elementelor de cuplare/fixare, finanțată cu **180.000 RON**

Faza unică pe 2009: Stabilirea efectelor reducerii de secțiune, stabilirea variantei de tratament termic secundar şi studiul efectelor acestora, finanțată cu **172.200 RON**

Faza unică pe 2008: Stabilirea efectelor compoziției chimice, stabilirea variantei de tratament termic primar și studiul efectelor acesteia, finanțată cu **299.588 RON**

Faza unică pe 2007: Elaborarea de noi aliaje pe bază de Fe-Ni şi Fe-Mn, finanțată cu **75.000 RON**

P6. 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 şi ale ciclării termomecanice*, finanțată cu **300.000 RON**

Faza unică pe 2007: *Obținerea unor probe turnate şi tratate termic primar din AMF de tip β*, finanțată cu **78.000 RON**

P7. 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 Adiţional nr. GR 80 / 23.05.2007, Tema nr. 8 din Anexa Ia, cod CNCSIS: 275/2007 Faza unică pe 2007: Testarea microactuatorului în condiţii de laborator, finanţată cu **56.000 RON**

Nr contract: 63GR/ 19.05.2006, Tema nr. 3 din Anexa Ia, cod CNCSIS: 275/2006, Faza unică pe 2006: Obţinerea materialului compozit AMF/ elastomer cu memoria formei, finanţată cu **82.000 RON**

P8. Membru, (Corneliu Munteanu – responsabil proiect din partea UTIasi

Concept inovativ de realizare în jet de plasmă a straturilor dure cu proprietăţi controlate, rezistente la uzură şi coroziune, Proiect CEEX-M1, Nr.67/ 2006, finanţat cu 1.330.000 RON **(175.000 RON partea UTI)**

P9. Membru, (Mihai Susan – director de proiect),

Sistem tehnologic performant pentru tragerea ţevilor inoxidabile în câmp ultrasonor, Proiect CEEX-M1, Nr.293/ 13.09.2006, finanţat cu **600.000 RON**

P10. Membru (Romeu Chelariu – responsabil proiect din partea UTIasi)

Structuri 2D şi 3D din aliaje cu memoria formei biocompatibile

Proiect CEEX 25/ 2005, finaţat cu **12.000 RON**

P11. Director de Proiect Grant CNCSIS de tip A,

Studiul transformărilor induse termic sau mecanic, până la nivelul nanostructurii martensitice, în materialele multifuncţionale cu memoria formei. Aplicaţii de tip senzor şi actuator,

Act adiţional 24371/ 24.06.2005, Tema nr. 13 din Anexa Ia', cod CNCSIS 476/2004 Fază unică pe 2005: Testarea în condiţii de laborator a elementelor multufuncţionale hidraulice şi electrice obţinute, finanţată cu **40.000 RON**

Contract 33371/ 29.06.2004, cod CNCSIS 476/2004 Faza unică pe 2004: Producerea şi caracterizarea elementelor active, cu memoria formei, punerea în formă şi testarea memoriei mecanice şi termice, Tema nr. 11 din Anexa Ia, finanţată cu **20.000 RON;**

Faza suplimentară pe 2004, Studiul precipitării preferenţiale a fazei α în structura martensitică multivariantă indusă termic, Tema 7 din Anexa Ia adiţional, finanţată cu **6.000 RON**

P12. Membru (I. Carcea - responsabil proiect din partea UTIasi)
Influenţa modificatorilor asupra structurii, deformabilităţii şi caracteristicilor de material cu memoria formei la aliaje din sistemul (Cu,Ni)-(Co,Mn)-(Al,Ga,Sb)
Programul „Materiale noi, micro şi nanotehnologii" – MATNANTECH, proiect nr. 3020284, c.f. 159(302) 2003, beneficiar Facultatea de Chimie Industrială-Universitatea Politehnica Bucureşti, 2003-2005, Subcontract S.C.RANCON S.R.L. Iaşi, finanţat cu **68.400.000 ROL**

P13. 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,
finanţat pe 2003 cu **366.192.000 ROL**
finanţat pe 2002 cu **18.180.000 ROL**

P14. Membru (I. Carcea - responsabil proiect din partea UTIasi),
Obţinerea aliajelor (magnetice) cu memoria formei din sistemul (Cu, Ni)-(Co, Mn)-(Al, Ga). Programul „Materiale noi, micro şi nanotehnologii" – MATNANTECH 2001, colaborare cu Institutul Naţional de Cercetare-Dezvoltare pentru Fizica Tehnică Iaşi
Faza II/2002: Corelaţie între caracteristici fizico-mecanice, parametrii tratamentului termomecanic şi proprietăţile de aliaj cu memoria formei la unele compoziţii din sistemul (Cu, Ni)(Co, Mn)(Al, Ga), finanţata 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), finanţata cu **80.000.000 ROL**

P15. Membru (C. Baciu - responsabil proiect din partea UTIasi),
Realizarea unor tehnologii moderne şi performante de tratamente termice şi termochimice în plasmă electrolitică
Proiect RELANSIN nr. 1610/20.12.2001 finanţat cu:
366.692.000 ROL – 2003
68.500.000 ROL – 2002
238.178.670 ROL – 2001

P16. Membru (C. Baciu - responsabil proiect din partea UTIasi),
Realizarea unor tehnologii moderne de elaborare, turnare şi tratament termic a corpurilor de măcinare cu compoziţie chimică economică şi având o rezistenţă la uzare superioară, utilizate în industria cimentului
Proiect RELANSIN nr 64/23.12.1999 finanţat cu **214.915.500 ROL** pe 2002

P17. Membru (A. Dima, director de proiect),
Cercetări privind tehnologiile de obţinere a unor noi materiale, aliajele cu memoria formei pe baza de cupru, pentru elementele active în dispozitivele de acţionare
Grant C.N.C.S.U. nr. 7002/1997 finanţat cu **15.000.000 ROL**
Grant C.N.C.S.U nr. 6002/1996 finanţat cu **8.000.000 ROL**

IV. TEZA DE DOCTORAT
T1 **Leandru-Gheorghe Bujoreanu**, *Tehnologie şi utilaje de obţinere a unor aliaje cu memoria formei*, Universitatea Tehnică "Gh.Asachi" din Iaşi, 188 pagini şi 7 anexe, susţinută la data de 5 mai 1997

Data: 21.05.2022