



Europass Curriculum Vitae

Informații personale

Prenume / NUME) **Leandru-Gheorghe BUJOREANU**
 Adresă
 E-mail lgbujor@tuiasi.ro
 Naționalitate Roman
 Data nașterii 22.03.1959, Iași
 Gen Masculin, căsătorit, 2 copii (1987 ♂, 1988 ♀)



Domeniul ocupațional Cercetare științifică și învățământ superior

Experiență

Date	1984-1987	1987-1990	1990-1993	1993-1999	1999-2008	2008-
Ocupație sau poziție deținută	Tehnolog de atelier și proiectant de produs	Asistent suplinator	Asistent	Șef de lucrări	Conferențiar	Profesor
Activități și responsabilități principale	Supraveghere a fluxului tehnologic și responsabil de produs	Lucrări de laborator	Lucrări de laborator	Cursuri și lucrări de laborator	Cursuri și lucrări de laborator; cercetare	Cursuri și cercetare
Numele și adresa angajatorului	Combinatul de Utilaj Greu FORTUS Iași	Universitatea Tehnică "Gheorghe Asachi" din Iași, Bd. D. Mangeron 67, 700050 Iași, Romania				
Tipul sau sectorul de activitate	Universitate de stat					

Educație și pregătire

Date	1978 absolvent clasa Specială de Fizică (Prof. Seryl Talpalaru), Liceul „Emil Racoviță”, Iași					
	1979-1984	1992-1997	3.11-1.12.2002 28.02-29.04.2005	15.11-15.12.2005 14.02-18.03.2007 13.02-6.04.2008	1-15.11.2007 4-14.05.2009 10-16.05.2010 7-11.10.2013	
Titlul calificării dobândite	Inginer mecanic	Doctor în Științe	Cadru didactic vizitator	Cercetător invitat	Cadru didactic vizitator	
Principale subiecte/ deprinderi ocupaționale dobândite	Tehnologia construcțiilor de mașini	Ingineria Materialelor	Cercetări asupra aliajelor cu memoria formei Cu-Zn-Al și Ni-Ti	Cercetări asupra aliajelor cu memoria formei pe bază de Fe	Cercetări asupra aliajelor cu memoria formei pe bază de Fe obținute prin metalurgia pulberilor	
Numele și tipul organizației care asigură educația și pregătirea	Universitatea Tehnică "Gheorghe Asachi" din Iași		Ruhr University of Bochum, Germania	National Institute of Materials Science, Tsukuba, Japonia	Istanbul Technical University, Turcia	
Nivelul în clasificare națională sau internațională	național			internațional		

Priceperi și competențe personale

Limba maternă

Alte limbi

Auto-evaluare

Nivel european (*)

Limba

Limba

Româna

Înțelegere				Vorbire				Scriere	
Ascultare		Citire		Interacțiune vorbită		Producție vorbită			
C2	Engleză	C2	Engleză	C1	Engleză	C1	Engleză	C2	Engleză
C1	Franceză	C2	Franceză	C1	Franceză	C1	Franceză	C1	Franceză
A1	Germană	A1	Germană	A1	Germană	A1	Germană	A1	Germană

(*) [Common European Framework of Reference for Languages](#)

Deprinderi și competențe sociale

Deprinderi și competențe organizaționale

Activități legate de doctorat

Activitatea de cercetare

Abilitatea de a comunica cu diferite categorii de oameni, în special în limbi străine, a fost dobândită în timpul călătoriilor în străinătate

- Membru al Comisiei Ingineria Materialelor din cadrul Consiliului Național de Atestare a Titlurilor, Diplomelor și Certificatelor Universitare, din anul 2011
- Director de studii la specializarea de Masterat „*Materiale Avansate și Tehnici de Analiză experimentală*”; Facultatea de Știința și Ingineria Materialelor, Universitatea Tehnică “Gheorghe Asachi” din Iași, din anul 2009
- Director interimar al Școlii Doctorale de la Facultate de Știința și Ingineria Materialelor, 2012-2013
- Chairman al secțiunii B. *Advances in Composite Materials and Technologies: Advanced Metals, Ceramics and Polymers; Bio-Materials; Recycling of Materials*, Conferința ModTech 2016, 15-18 Iunie, Iași, Romania, http://modtech.ro/conference/docs/ModTech2016_Program.pdf
- Conducere de doctorat din 2009 (Ordinul Ministrului Educației, Cercetării și Inovării nr. 3656/10.04.2009);
- 3 teze de doctorat finalizate în 2012, 2013 și 2014;
- 5 doctoranzi, aflați sub îndrumare
- participarea, ca membru, la 10 comisii de doctorat și 2 comisii de abilitare
- expert în Aliaje cu memoria formei (AMF), analiză termică și structurală:
 - primele studii din România despre superelasticitatea cu curgere dublă la AMF CuAlNi (*Metalurgia*, 1994);
 - reorientarea fazei α , după tratament termic, la AMF CuZnAl (*J Alloy Compd*, 1998; *Mater Sci Tech-Lond*, 2000; *Mat Sci Eng A*, 2008);
 - formarea tranzitorie a bainitei la revenirea AMF CuZnAl călite (capitol carte *Nova Science Publishers*);
 - degradare și fenomene de amnezie la AMF CuZnAl (*J. Mater. Eng. Perform.*, 2011 și *Mater Sci Tech-Lond*, 2012);
 - dezvoltarea de actuatori termici și electrice din AMF CuZnAl, educarea și ciclarea lor termomecanică (*J. Optoelectron Adv M*, 2008; *Mat. Sci Eng. A*, 2008; *Mater. Manuf. Proc.*, 2013 și *J. Test. Eval.* 2016);
 - efectele vitezei de încălzire (*Int. J. Mat. Res.*, 2011 și *Micro & Nano Lett.*, 2012) și de răcire (*Int. J. Min. Met. Mater.*, 2014)
 - mecanism de plasticitate reversibilă indusă prin transformare la AMF FeMnSi (*Scripta Mater.* 2008);
 - transformare martensitică indusă prin tensiune AMF FeMnSi (*J. Mater. Eng. Perform.*, 2009);
 - studiul proprietăților termomecanice și inversarea gradientului de duritate la module multifuncționale din AMF FeMnSiCr prelucrate prin HS-HPT (*Indian J. Eng. Mater. S.*, 2014 și ESOMAT 2015);
 - efectele alierii mecanice asupra comportamentului de memoria formei la AMF FeMnSiCrNi prelucrate din pulberi (*J. Mater. Eng. Perform.*, 2014, *Mater Today Proced.*, 2015);
 - dependența frecării interne de fracțiunea de pulbere aliată mecanic și de parametrii termomecanici (prezentare orală HTSMAs, Wildbad Kreuth 2015, ESOMAT 2015 și Trans Tech Publications, series “Advances in Science and Technology”, acceptată).
- coautor la 15 cărți publicate;
- peste 150 de lucrări publicate (71 indexate în ISI Web of Science, 443 citări, h = 11);
- scientometrie: I₄-P₂-C₅: I = 8,87; P = 16,82; C = 35,82, FI cumulat > 10;
- 5 brevete și 1 cerere de brevet de invenție;
- 2 prezentări în plen (5th International Congress in Materials Science and Engineering, Iași, 26-28 Mai, 2005 și ModTech 2014, 13-15 Iulie 2014, Gliwice, Poland)

	<ul style="list-style-type: none"> • 13 prezentări orale în manifestări științifice internaționale (MME 2002, Sinaia; ESOMAT 2006, Bochum; E-MRS Fall Meeting 2007, Warsaw; ATOM-N 2008, Constanța; SMST 2008, Stresa; ESOMAT 2009, Praga; ICOMAT 2014, Bilbao; IMMC 2014, Istanbul; BRAMAT 2015, Brașov; HTSMAs 2015, Wildbad Kreuth; FiMPART 2015, Hyderabad; CATCAR 2016, București și CIMTEC 2016, Perugia) • 8 prezentări poster (EUROMAT 2007, Nuernberg; E-MRS Spring Meeting 2010, Strasbourg; EUROMAT 2011, Montpellier; ESOMAT 2012, Saint-Petersburg; SMST 2013, Praga; ModTech 2013, Sinaia; IVC 2013, Paris și ESOMAT 2015, Antwerp) • 13 proiecte de cercetare (5 ca director de proiect: peste 3,8 MRON fonduri atrase din care 0,6 MRON dotări)
Activitate didactică	<ul style="list-style-type: none"> • Stabilirea Planului de Învățământ la specializarea de Masterat „<i>Materiale Avansate și Tehnici de Analiză experimentală</i>”; Facultatea de Știința și Ingineria Materialelor, Universitatea Tehnică “Gheorghe Asachi” din Iași, • Discipline predate: Studiul materialelor; Tratamente termice și termochimice; Materiale nanocristaline și amorf; Bazele teoretice, tehnologice și aplicative ale aliajelor cu memoria formei; Materiale inteligente; Materiale nemetale cu memoria formei; Superaliaje; Materiale electro- și magnetoreologice
Activitate științifică	<ul style="list-style-type: none"> • Membru în 5 comitete științifice internaționale (IMMC Istanbul 2010, 2012, 2014, ModTech 2013-2016, IMaNE 2013-2015, ISRS Madras 2014, FiMPART Hyderabad 2015; • evaluator extern: FWO- Fonds Wetenschappelijk Onderzoek – Vlaanderen; LE STUDIUM-France și GNSF-Georgia National Science Foundation; • Elsevier recognized reviewer (J. Mater. Design, J. Alloy Compd, Mater. Chem. Phys. and Mater. Lett.); • recenzor voluntar (Adv. Eng. Mater., IEEE T. Ind. Electron., Int. J. Mater. Prod. Tec., Int. J. Nonferr. Metall., J. Mater. Res., J. Mater. Eng. Perform., J. Noncryst-Solids, Mater. Character., Mat. Sci. Eng. A and B, Smart Mater. Struct. and Thermochim. Acta);
Evaluator intern	<ul style="list-style-type: none"> • cereri de finanțare: CNCSIS tip A 2005 (3); CEEX 2006 (14); CNCSIS 2007 tip A (4) și tip TD (2); PCE 2008 (16); implementare IDEI (2); Resurse Umane 2010 tip TE (2) și PD (3); PCCA 2013 (17); TE 2014 (7) și PM Ro-Md (5) • comisii de concurs: preparator (UTIASI, 2005); asistent universitar (UTIASI, 2013C); CSI (2 posturi, INOE 2013); CS II (2 posturi, INOE 2013); profesor (2 posturi, UPB 2015); profesor (UPB, 2016); conferința (UPB, 2016)
Colaborări internaționale	<ul style="list-style-type: none"> • Acorduri de colaborare: 1. Prof. Gunther Eggeler, Ruhr University Bochum, Germania; 2. Assoc. Prof. Burak Ozkal, Istanbul Technical University, Turcia; 3. Dr. Markus Meyer, NETZSCH, Selb, Germania
Colaborări naționale	<ul style="list-style-type: none"> • 1. R&D Consultanță și Servicii București (Manager Ioan Dan); 2. Universitatea „Dunărea de Jos” din Galați (Prof. V. Mușat, Conf. Gheorghe Gurău); 3. Universitatea POLITEHNICA București (Prof. V. D. Cojocaru); 4. Universitatea POLITEHNICA Timișoara (Prof. C. M. Crăciunescu)

I. TEACHING ACTIVITY

I.1. Published books (Ca)

Ca1. Rodinel Ardeleanu, Leandru-Gheorghe Bujoreanu, Gabriela Săcărescu, Liviu Săcărescu and Mihaela Simionescu, Nonmetallic Shape Memory Materials. Structure-Properties-Applications, (in Romanian), Editura tehnică, științifică și didactică CERMI, Iași, 219 pages, 2007, ISBN 978-973-667-291-0, registered in Global Register of Publishers, London.

Ca2. M.Nicu, N.Bălbă, L.G.Bujoreanu, S.Stanciu and F.Apostu, Materials Science and Engineering. Vol. II Modern Materials, (in Romanian), 2nd edition; Editura ECOZONE, Iași, 188 pages, 2006, ISBN Vol III: 973-7645-21-9, registered in GRP, London.

Ca3. L.G.Bujoreanu and C.Munteanu, Microstructural changes accompanying thermal memory occurrence and stabilization in a Cu-Zn-Al SMA, Series Advances in Micro- and Nanoengineering, (Editors Irina Kleps, Dan Dascălu and Jose Kenny), Editura Academiei Române, București, pp. 110-120, 2004, ISBN 973-27-1110-8

Ca4. L.G.Bujoreanu and C.Baciu, Materials Study. Tests and Applications, (in Romanian), Editura tehnică, științifică și didactică CERMI, Iași, 198 pages, 2003, ISBN 973-8188-69-5, registered in GRP, London.

Ca5. L.G.Bujoreanu, G.Roșescu and I.Avrăm, Materials Study in Machine Building, (in Romanian), Editura Științifică "Fundatia Metalurgia Română", București, 321 pages; 1998, ISBN 973-98314-5-1, registered in GRP, London.

Ca6. L.G.Bujoreanu and S.Stanciu, Shape Memory Materials. Practical Methods for Analysis, (in Romanian), Editura "Cermi", Iași, 144 pages, 1998, ISBN 973-9378-28-5, registered in GRP, London.

Ca7. G.Calugaru, L.G.Bujoreanu, S.Stanciu, I.Hopulele, R.Căliman, O.L.Turcu and I.Apachiței Shape Memory. Phenomena and Applications in Materials Science, (in Romanian), Editura „Plumb”, Bacău, 208 pages, 1995, ISBN 973-9150-50-0, registered in GRP, London.

Ca8. G.Calugaru, I.Apachiței, R.Căliman, O.L.Turcu and L.G.Bujoreanu, Advanced Materials. Amorphous Metallic Powders, Editura "Plumb", (in Romanian), Bacău, 218 pages, 1995, ISBN 973-9150-49-7, registered in GRP, London.

I.2 Guides for laboratory works

I1 C.Baciu, C.Munteanu, I.Rusu, L.G.Bujoreanu, Maria Baciu and I.Apachiței, Laboratory Handbook. Metals Study, (in Romanian), Vol. I, Rotaprint, I.P.Iași, 186 pages, 1992

II. SCIENTIFIC CONTRIBUTIONS TO DOMAIN DEVELOPMENT

II.1 Published scientific books (Cb)

Cb1. L.G.Bujoreanu, 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, 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

Cb2. 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 2010, pp. 267-285, ISBN 978-1-60741-789-7

Cb3. R.Chelariu, L.G.Bujoreanu, and C.Roman, Titanium Base Biocompatible Metallic Materials, (in Romanian), Editura Politehniun, Iași, 215 pages; 2006, ISBN (10) 973-621-153-3; ISBN (13) 978-973-621-153-9, registered in GRP, London.

Cb4. L.G.Bujoreanu, S.Stanciu, C.Munteanu and M.Susan, Mechanical and Thermal Memory of Cu-Zn-Al Base Shape Memory Alloys, (in Romanian), Editura Politehniun, Iași, 183 pages; 2005, ISBN 973-621-111-8

Cb5. L.G.Bujoreanu Intelligent Materials, (in Romanian), Editura „Junimea”, Iași, 339 pages, 2002, ISBN 973-37-0735-X, registered in GRP, London.

Cb6. L.G.Bujoreanu, V.Dia, E.Drăgulănescu and G.Roșescu, Technology and Equipment for Obtaining Some Shape Memory Alloys. Vol. II, (in Romanian), Editura Științifică "Fundatia Metalurgia Română", București, 166 pages, 1999, ISBN 973-98314-8-6, registered in GRP, London.

Cb7. L.G.Bujoreanu, V.Dia and S.Mărginean, Technology and Equipment for Obtaining Some Shape Memory Alloys. Vol.I, (in Romanian), Editura Științifică "Fundatia Metalurgia Română", București, 207 pages, 1998, ISBN 973-98314-2-7, registered in GRP, London.

II.2 Published papers in international journals indexed in ISI Web of Science or IDB (Ri)

Ri 1 MIHALACHE Elena, PRICOP Bogdan, COMĂNECI Radu Ioachim, SURU Marius-Gabriel, LOHAN Nicoleta-Monica, MOCANU Mihai, ÖZKAL Burak and BUJOREANU Leandru-Gheorghe, Structural Effects of Thermomechanical Processing on the Static and Dynamic Responses of Powder Metallurgy Fe-Mn-Si Based Shape Memory Alloys, Advances in Science and Technology, Vol. 97, 2017, pp 153-158

Ri 2 Gheorghe Gurau, Carmela Gurau, Vedamanickam Sampath, and Leandru Gheorghe Bujoreanu, Investigations of a nanostructured FeMnSi shape memory alloy produced via severe plastic deformation, International Journal of Minerals, Metallurgy and Materials Volume 23, Number 11, November 2016, Page 1315-1322, IMPACT FACTOR on 2015: 0,882

Ri 3 Gigi Vitel, Bogdan Pricop, Marius-Gabriel Suru, Nicoleta Monica Lohan, and Leandru-Gheorghe Bujoreanu, Study of Temperature Memory Effect During the Thermal Cycling in Hydraulic Systems, Journal of Testing and Evaluation, VOL. 44 / NO. 4 / JULY 2016, pp. 1525-1534, doi:10.1520/JTE20140138. ISSN 0090-3973, IMPACT FACTOR on 2015: 0,423

Ri 4 E. Mihalache, B. Pricop, N.-M. Lohan, M.-G. Suru, B. Ozkal, L.-G. Bujoreanu, Internal friction evaluation in mechanically alloyed-powder metallurgy Fe-Mn-Si-Cr-Ni shape memory alloys, International Journal of Modern Manufacturing Technologies, Vol. VIII, No. 1/ 2016, pp 61-68, ISSN 2067-3604, <http://modtech.ro/international-journal/international-journal-ijmmt.php?volume=vol7no12015> indexed Scopus, INSPEC, Index Copernicus, Google Scholar

Ri 5 Marius Gabriel Suru, Nicoleta Monica Lohan, Bogdan Pricop, Elena Mihalache, Mihai Mocanu, Leandru-Gheorghe Bujoreanu, Precipitation Effects on the Martensitic Transformation in a CuAlNi Shape Memory Alloy, Journal of Materials Engineering and Performance, 25(4), 2016, pp. 1562-1569, DOI: 10.1007/s11665-016-1981-z, IMPACT FACTOR on 2015: 1,094

Ri 6 B. Pricop, B. Özkal, U. Söyler, J. Van Humbeeck, N. M. Lohan, M.-G. Suru, I.-P. Spiridon, and L.-G. Bujoreanu, Structural changes caused by high-temperature holding of powder shape memory alloy 66% Fe – 14% Mn – 6% Si – 9% Cr – 5% Ni, Metal Science and Heat Treatment, Vol. 57, Nos. 9 – 10, January, 2016, 553-558, ISSN 0026-0673, DOI 10.1007/s11041-016-9921-z, IMPACT FACTOR on 2015: 0,254

- Ri 7 I.-P. Spiridon, N.-M. Lohan, M.-G. Suru, E. Mihalache, L.-G. Bujoreanu, and B. Pricop, A study of free recovery in a Fe – Mn – Si – Cr shape memory alloy, *Metal Science and Heat Treatment*, Vol. 57, Nos. 9 – 10, January, 2016, 548-552, ISSN 0026-0673, DOI 10.1007/s11041-016-9920-z, IMPACT FACTOR on 2015: 0,254
- Ri 8 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 9 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 10 Leandru-Gheorghe Bujoreanu, Viorel Goanță, Nicanor Cimpoșu, 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 11 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 12 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 13 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 14 B. Pricop, U. Söyler, B. Özkal, M.G. Suru, N.M. Lohan, R.I. Comănesci, N. Cimpoșu, 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 15 L.-G. BUJOREANU, N. M. LOHAN, M.-G. SURU, A. PLESCA Thermal analysis of eutectic alloy at HBC fuses, *Journal of Optoelectronics and Advanced Materials*, 17(9-10), 2015, pp. 1500-1506, ISSN 1454-4164, IMPACT FACTOR: 0,383
- Ri 16 L.G. BUJOREANU, Development of shape memory and superelastic applications of some experimental alloys, *Journal of Optoelectronics and Advanced Materials*, 17(9-10), 2015, pp. 1437-1443, ISSN 1454-4164, IMPACT FACTOR: 0,383
- Ri 17 N. M. LOHAN, E. MIHALACHE, B. PRICOP, M.G. SURU, L.G. BUJOREANU, A study of R-phase transition and temperature memory effect in a commercial Nitinol wire, *Journal of Optoelectronics and Advanced Materials*, 17(9-10), 2015, pp. 1431-1436, ISSN 1454-4164, IMPACT FACTOR: 0,383
- Ri 18 E. MIHALACHE, F. BORZA, N. LUPU, N. M. LOHAN, B. PRICOP, M.-G. SURU, L.-G. BUJOREANU, Thermomechanical processing effects on the martensitic transformation in Fe-based SMAs, *Journal of Optoelectronics and Advanced Materials*, 17(9-10), 2015, pp. 1344-1347, ISSN 1454-4164, IMPACT FACTOR: 0,383
- Ri 19 R Comănesci, L Zaharia, D Nedelcu and L G Bujoreanu, Processing of cylindrical hollow parts: piercing vs. extrusion, *Modern Technologies in Industrial Engineering (ModTech2015)*, IOP Conf. Series: Materials Science and Engineering 95 (2015) 012032 doi:10.1088/1757-899X/95/1/012032
- Ri 20 R. COMANECI, L. G. BUJOREANU, C. BACIU, A. M. PREDESCU, D. SAVASTRU, Finite element analysis of equal channel angular pressing by using a multi-pass die, *Optoelectronics and Advanced Materials – Rapid Communications*, 9(9-10), 2015, pp. 1322 – 1327, ISSN 1842-6573, IMPACT FACTOR: 0,412
- Ri 21 L G Bujoreanu, R I Comănesci, G Gurău, N M Lohan, M G Suru, B Pricop, V Goanță, V Mușat, B Istrate & E Mihalache, Thermomechanical training effects of multifunctional modules processed by high-speed high pressure torsion, *Indian Journal of Engineering and Materials Sciences*, Vol 22(4), 2015, pp. 367-375, ISSN 0971-4588, IMPACT FACTOR: 0,456
- Ri 22 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, No. 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
- Ri 23 M-G. Suru, N.M. Lohan, B. Pricop, I.P. Spiridon, E. Mihalache, R.I. Comaneci and L-G. Bujoreanu, Structural effects of high-temperature plastic deformation process on martensite plate morphology in a Fe-Mn-Si-Cr SMA, *International Journal of Materials and Product Technology*, Vol. 50, Nos. 3/4, 2015, pp. 276-288, ISSN 0268-1900, IMPACT FACTOR: 0,365
- Ri 24 Nicoleta-Monica Lohan, Marius-Gabriel Suru, Bogdan Pricop, and Leandru-Gheorghe Bujoreanu, Cooling rate effects on the structure and transformation behavior of Cu-Zn-Al shape memory alloys, *International Journal of Minerals, Metallurgy and Materials*, 21(11), 2014, pp. 1109-1114, DOI: 10.1007/s12613-014-1015-5, ISSN 1674-4799, IMPACT FACTOR: 0,791
- Ri 25 Marius-Gabriel Suru, Adrian-Liviu, Paraschiv, Nicoleta Monica Lohan, Bogdan Pricop, Burak Ozkal, Leandru-Gheorghe Bujoreanu, Loading Mode and Environment Effects on Surface Profile Characteristics of Martensite Plates in Cu-Based SMAs, *Journal of Materials Engineering and Performance*, 23(7), 2014, pp. 2669-2676, ISSN 1059-9495, IMPACT FACTOR: 0,998
- Ri 26 GURĂU, Gheorghe, GURĂU, Marlen, POTECAȘU, Octavian, ALEXANDRU, Petrică, Bujoreanu, Leandru, Novel high speed high pressure torsion technology for obtaining Fe-Mn-Si-Cr shape memory alloy active elements, *Journal of Materials Engineering and Performance*, 23(7), 2014, pp. 2396-2402, ISSN 1059-9495, IMPACT FACTOR: 0,998
- Ri 27 A. Umut Söyler, Burak Özkal and Leandru G. Bujoreanu, Improvement of shape memory characteristics of Fe-14Mn-6Si-9Cr-5Ni powder metallurgy alloy via mechanical alloying, *Journal of Materials Engineering and Performance*, 23(7), 2014, pp. 2357-2361, ISSN 1059-9495, IMPACT FACTOR: 0,998
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- E13. E. MIHALACHE, F. BORZA, N. LUPU, N. M. LOHAN, B. PRICOP, M.-G. SURU, L.-G. BUJOREANU, Thermomechanical processing effects on the martensitic transformation in Fe-based SMAs, poster presentation at BRAMAT 2015, 5 – 7 March 2015, Brasov, Romania
- E14. N. M. LOHAN, E. MIHALACHE, B. PRICOP, M.G. SURU, L.G. BUJOREANU, A study of R-phase transition and temperature memory effect in a commercial Nitinol wire, poster presentation at BRAMAT 2015, 5 – 7 March 2015, Brasov, Romania
- E15. L.G. BUJOREANU, Development of shape memory and superelastic applications of some experimental alloys, oral presentation at BRAMAT 2015, 5 – 7 March 2015, Brasov, Romania
- E16. L.G. Bujoreanu, G. Gurău, R.I. Comănesci, B. Özkal, E. Mihalache, Particular aspects of constrained recovery shape memory effect in a severely plastic deformed Fe-Mn-Si-Cr alloy, oral presentation at 17th International Metallurgy and Materials Congress IMMC 2014, 11-13 September 2014, Istanbul, Turkey
- E17. L.G. Bujoreanu, R.I. Comănesci, G. Gurău, N.M.Lohan, M. G. Suru, B. Pricop, V. Goanță, V. Mușat, B. Istrate, E. Mihalache, Thermomechanical training effects of multifunctional modules, processed by high-speed high pressure torsion, when subjected to compression loading-unloading cycles, invited speaker at Modern Technologies in Industrial Engineering ModTech 2014, 13-15 July 2014, Gliwice, Poland
- E18. M.-G. Suru, C. Moroșanu, R.-I. Comănesci, E. Mihalache, L.-G. Bujoreanu, Comparative evolution of surface relieves of stress-induced martensite plates in shape memory alloys with different crystalline structures, poster presentation at International Conference on Martensitic Transformations, ICOMAT 2014, July 6-11, 2014, Bilbao, Spain
- E19. B. Pricop, U. Söyler, B. Özkal, M.G. Suru, N.M. Lohan, R.I. Comănesci, N. Cimpoeșu, V.Mușat, G. Gurău, B. Istrate, E. Mihalache, L.G. Bujoreanu, A study of martensite formation in powder metallurgy Fe-Mn-Si-Cr-Ni shape memory alloys, oral presentation at International Conference on Martensitic Transformations, ICOMAT 2014, July 6-11, 2014, Bilbao, Spain
- E20. Leandru-Gheorghe Bujoreanu, Iuliana Petruța Spiridon, Bogdan Pricop, Burak Ozkal, Umut Soyler, Jan Van Humbeeck, Nicoleta Monica Lohan, Adrian-Liviu Paraschiva, Bogdan Istrate, Marius-Gabriel Suru, Influence of solution treatment parameters on martensite plate morphology of a hot rolled powder metallurgy Fe-14Mn-6Si-9Cr-5Ni (mass. %) shape memory alloys, poster presentation at 19th International Vacuum Congress, IVC 2013, 9-13 septembrie 2013 Paris
- E21. 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, oral presentation, Modern Technologies in Industrial Engineering, ModTech 2013, Sinaia, 27-29 Iunie, Romania
- E22. L.G.Bujoreanu, Particular aspects concerning the manufacturing and testing of experimental applications of shape memory alloys and the development of new research directions, oral presentation, Modern Technologies in Industrial Engineering, ModTech 2013, Sinaia, 27-29 Iunie, Romania
- E23. 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, poster presentation at Shape Memory and Superelastic Technologies, SMST 2013, 20-24.05.2013, Praga, Republica Cehă
- E24. Adrian-Liviu Paraschiv, Marius-Gabriel Suru, Nicoleta Monica Lohan, Bogdan Pricop, Leandru-Gheorghe Bujoreanu, Firața Borza, Nicoleta Lupu, Factors influencing the structure and proprieties of polycrystalline magnetic Fe-Ni-Co-Al-Ta-B shape memory alloys, poster presentation at Shape Memory and Superelastic Technologies, SMST 2013, 20-24.05.2013, Praga, Republica Cehă
- E25. 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, poster presentation at Shape Memory and Superelastic Technologies, SMST 2013, 20-24.05.2013, Praga, Republica Cehă
- E26. 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, poster presentation, 8th International Conference in Materials Science and Engineering, BRAMAT 2013, 28.02-2.03.2013 Brașov, Romania
- E27. 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, poster presentation, 8th International Conference in Materials Science and Engineering, BRAMAT 2013, 28.02-2.03.2013 Brașov, Romania
- E28. 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, poster presentation, 8th International Conference in Materials Science and Engineering, BRAMAT 2013, 28.02-2.03.2013 Brașov, Romania
- E29. 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, poster presentation at European Symposium on Martensitic Transformations - ESOMAT 2012, September 9-16, 2012, Saint-Petersburg, Russia
- E30. 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, oral presentation in the seminary organized by Netzsch, 24 mai 2012 „Materials Characterisation by means of thermal analysis techniques”

- E31. 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, sustained under poster form within the symposium A54 - Shape Memory Alloys (SMA) – Materials and Devices, EUROMAT 2011, Montpellier 12-15 September 2011
- E32. 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, oral presentation within the section METALLIC MATERIALS 5 of 15th International Metallurgy and Materials Congress, IMMC 2010, Istanbul 11 - 13 November 2010
- E33. 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, sustained under poster form within Symposium S Shape memory materials for smart systems III, of European Materials Research E-MRS Spring Meeting 2010, Strasbourg, 7-11 June 2010
- E34. S. Stanciu, L. G. Bujoreanu, R.I.Comănesci, N. Cimpoesu, I. Ioniță, V.V.Moldoveanu, Particularities of phase transitions in thermomechanically processed Cu-Al-Mn shape memory alloys, sustained under poster form at ESOMAT 2009 The 8th European Symposium on Martensitic Transformations, Prague 7-11 September 2009
- E35. 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, Oral presentation at ESOMAT 2009 The 8th European Symposium on Martensitic Transformations, Prague 7-11 September 2009
- E36. 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, plenary presentation within the Seventh International Congress in Materials Science and Engineering, ISSIM 2009, Iași, 29-31 May, 2009
- E37. Sergiu Stanciu, Leandru G. Bujoreanu, Nicanor Cimpoesu and Iulian Ioniță, Study of shape memory effect developed by helical springs made from Cu-Al-Ni alloy by lost-wax casting, sustained under poster form at SMST 2008, Shape Memory and Superelastic Technologies SMST 2008, 21-25 September, Stresa, Italy
- E38. 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, sustained under poster form at Shape Memory and Superelastic Technologies SMST 2008, 21-25 September, Stresa, Italy
- E39. Sergiu Stanciu, Leandru G. Bujoreanu, Iulian Ioniță, Andrei V. Sandu, Alexandru Enache, A structural-morphological study of a Cu₆₃Al₂₆Mn₁₁ shape memory alloy, oral presentation at Advanced Topics on Optoelectronics Microtechnologies and Nano Technologies, ATOM-N 2008, Constanța 28-31 August 2008
- E40. Leandru G. Bujoreanu, Sergiu Stanciu, Paul Bărsănescu, Nicoleta M. Lohan, Study of the transitory formation of α 1 bainite, as a precursor of α -phase in tempered SMAs, oral presentation at Advanced Topics on Optoelectronics Microtechnologies and Nano Technologies, ATOM-N 2008, Constanța 28-31 August 2008
- E41. L.G.Bujoreanu, S. Stanciu, Results obtained at S.I.M. faculty from U.T.Iași in the domain of study, research and development of shape memory alloys, oral presentation at the Tenth National Conference of Scientific Research in High school (CNCSIS 10), Brasov, 15-17 May 2008
- E42. 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, oral presentation within the symposium E: SHAPE MEMORY MATERIALS FOR SMART SYSTEMS, from E-MRS Fall Meeting 2007, September 17-21, Warsaw University of Technology, Poland
- E43. 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, under the form of poster no. 288, within Symposium D33, Process Modeling of Metallic Alloys, de la EUROMAT 2007 - European Congress on Advanced Materials and Processes
- E44. L. G. Bujoreanu, M. Temneanu, R. Ardeleanu, M. Susan, Factors influencing the bending reproducible behavior of shape memory electrical actuators, sustained on 10-11 September 2007, under the form of poster no. 168, within Symposium B23, Shape Memory and Amorphous Alloys, de la EUROMAT 2007 - European Congress on Advanced Materials and Processes,
- E45. Leandru-Gheorghe Bujoreanu, Study of the transitory formation of α 1 bainite, as a precursor of α -phase in tempered Cu-Zn-Al SMAs, oral presentation in plenary session of the Sixth International Congress in Materials Science and Engineering, Iași, 24-26 May, 2007
- E46. Leandru-Gheorghe Bujoreanu, On the influence of austenitization on the morphology of β -phase in tempered Cu-Zn-Al shape memory alloys, oral presentation S-01, on 13th September 2006 between 10:30-10:45, within the section 5, Microstructural characterization, of the Seventh European Symposium on martensitic Transformation and Shape Memory Alloys, ESOMAT 2006, 10-15 September 2006, Bochum, Germany
- E47. 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, sustained under the form of poster TP 62, within section 8, Alloy development, processing and applications of the Seventh European Symposium on martensitic Transformation and Shape Memory Alloys, ESOMAT 2006, 10-15 September 2006, Bochum, Germany
- E48. S. Stanciu, and L. G. Bujoreanu, Formation of stress-induced martensite in the presence of γ phase in a Cu-Al-Ni-Mn-Fe shape memory alloy, sustained under the form of poster WP 17 within section 5, Microstructural characterization of the Seventh European Symposium on martensitic Transformation and Shape Memory Alloys, ESOMAT 2006, 10-15 September 2006, Bochum, Germany
- E49. A. Airinei, C. Hulubei, R. Ardeleanu, N. Fifere, and L.G. Bujoreanu, Shape change effects in azoaromatic polymer materials, sustained under the form of poster WP 33, within section 6, Cu-based and less common systems of the Seventh European Symposium on martensitic Transformation and Shape Memory Alloys, ESOMAT 2006, 10-15 September 2006, Bochum, Germany
- E50. Leandru-Gheorghe Bujoreanu, Viorica David, Vasile Dia, Corneliu Munteanu, Evolution of the hysteretic behaviour of SMA wires during mechanical and thermal cycling, oral presentation at the Second International Scientific Conference „Advanced Concepts in Mechanical Engineering” ACME – 2006, 16-17 June 2006, Iași
- E51. Leandru-Gheorghe Bujoreanu, Romeo Chelariu, Costel Roman, The effects of Nb additions on the thermomechanical behavior of Ni-Ti shape memory alloy, oral presentation at the Second International Scientific Conference „Advanced Concepts in Mechanical Engineering” ACME – 2006, 16-17 June 2006, Iași
- E52. L.G.Bujoreanu, Ten years of research of Shape Memory Alloys at the Faculty of Materials Science and Engineering, plenary presentation within Fifth International Congress in Materials Science and Engineering, Iași, 26-28 May, 2005

E53. Leandru-Gheorghe Bujoreanu, Corneliu Munteanu, Iulian Ioniță and Viorel Kogăniceanu, On the shape memory behaviour of Cu-based alloys and polyethylene terephthalate (PET), oral presentation at the Seventh International Conference on the Physics of Advanced Materials, ICPAM-7, 10-12 June 2004, Iași

E54. V. Dia, L.G. Bujoreanu and V. Plugaru, Thermal cycling behaviour of a Cu-Zn-Al-Fe SMA bending actuator, oral presentation at the Thirteenth European Conference of Micromechanics, MME'02, 6-8 October 2002, Sinaia

III. RESEARCH PROJECTS BASED ON CONTRACT/ GRANT

III.1 Research contracts won by national competition (P)

P1. PROJECT MANAGER Exploratory Research Projects – IDEAS

Novel method for improving shape memory properties by controlled atomic migration (in Romanian) contract no. 13/ 2013, Code PN-II-ID-PCE-2012-4-0033

Unique phase on 2016: Emphasizing the reversible formation of stress induced martensite in specimens 40_MA (in Romanian) financed with 267,933 RON

Unique phase on 2015: Emphasizing the reversible formation of stress induced martensite in specimens 30_MA (in Romanian) financed with 292,849 RON

Unique phase on 2014: Emphasizing the reversible formation of stress induced martensite in specimens 10_MA and 20_MA (in Romanian) financed with 375,318 RON

Unique phase on 2013: Emphasizing the reversible formation of stress induced martensite in specimens 0_MA (in Romanian) financed with 185,150 RON

P2. PROJECT MANAGER Collaborative applied research projects PARTNERSHIPS

Modular system of multifunctional elements with self-adapting displacement (in Romanian) contract no. 144/ 2012, Code PN-II-PT-PCCA-2011-3.1-0174

Unique phase on 2016: Evaluation of the economic impact of the application of research results (in Romanian) financed with 247,670 RON

Unique phase on 2015: Demonstrating the efficiency of the self-adaptive displacement for the modular system under functioning conditions (in Romanian) financed with 217,978 RON

Unique phase on 2014: Executing multifunctional active elements for the modular system (in Romanian) financed with 245,052 RON

Unique phase on 2013: Conceiving, designing and producing multifunctional elements. Evaluation of grain refining effect on constrained recovery shape memory effect (in Romanian) financed with 485,438 RON

Unique phase on 2012: Obtainment the alloys with ultrafine/ nanometric grain size and shape memory effect. Characterization of preliminary specimens (in Romanian) financed with 579,862 RON

P3. PROJECT MANAGER Exploratory research project, program IDEI

Constrained recovery applications of Fe-(Mn, Ni)-Si-based shape memory alloys, with controlled properties by nanostructural changes at the level of martensite and austenitic matrix, (in Romanian), contract no. 279/ 01.10.2007, code CNCSIS 301

Unique phase on 2010: Obtaining and testing the coupling/ fastening elements, (in Romanian), financed with 180,000 RON

Unique phase on 2009: Determination of section reduction effects, of secondary heat treatment variant and the study of their effects, (in Romanian), financed with 172,200 RON

Unique phase on 2008: Determination of chemical composition effects, of primary heat treatment variant and the study of its effects, (in Romanian), financed with 299,588 RON

Unique phase on 2007: Elaboration of new Fe-Ni and Fe-Mn base alloys, (in Romanian), financed with 75,000 RON

P4. Member (Sergiu Stanciu – project manager), Exploratory research project, program IDEI,

New beta type shape memory alloys with modified nanostructure by complex alloying and thermomechanical training, used for robotic applications, (in Romanian), contract no. 279/ 01.10.2007, code CNCSIS 616

Unique phase on 2010: Testing the system under function conditions, (in Romanian), financed with 195,360 RON

Unique phase on 2009: Verifying the thermomechanical fatigue behavior of active elements, conceiving, designing and manufacturing of a robotic application, (in Romanian), financed with 183,800 RON

Unique phase on 2008: Determining primary heat treatment effects, of plastic deformation and of thermomechanical cycling, (in Romanian), financed with 300,000 RON

Unique phase on 2007: Obtaining some cast and primary heat treated specimens of β type SMA, (in Romanian), financed with 78,000 RON

P5. PROJECT MANAGER Grant CNCSIS type A, Development of a new computer controlled microactuator from SMA/ elastomer shape memory composites, (in Romanian)

Additional Contract no. GR 80 / 23.05.2007, Theme no. 8 from Annex Ia, code CNCSIS: 275/2007 Unique phase on 2007: Testing the microactuator under laboratory conditions, (in Romanian), financed with 56,000 RON

Contract no.: 63GR/ 19.05.2006, Theme no. 3 from Annex Ia, code CNCSIS: 275/2006, Unique phase on 2006: Obtainment of SMA/ elastomer shape memory composites, (in Romanian), financed with 82,000 RON

P6. Member, (Corneliu Munteanu – project leader on behalf of TULasi)

Innovative concept for plasma jet obtainment of hard layers with controlled properties, wear and corrosion resistance, (in Romanian), Project CEEX-M1, No.67/ 2006, financed with 1.330.000 RON (175,000 RON TULasi share)

P7. Member, (Mihai Susan – project manager),

P8. Performing technologic system for ultrasonic vibration drawing of stainless steel wires, (in Romanian), Project CEEX-M1, No.293/ 13.09.2006, financed with 600,000 RON

P9. Member (Romeu Chelariu – project leader on behalf of TULasi) 2D and 3D structures from biocompatible shape memory alloys, (in Romanian), Project CEEX 25/ 2005, financed with 12,000 RON

P10. PROJECT MANAGER Grant CNCSIS type A, Study of thermally and mechanically induced transformations down to the level of martensitic nanostructure, in multifunctional shape memory materials. Application of sensor and actuator type, (in Romanian)

Additional contract 24371/ 24.06.2005, Theme no. 13 from Annex Ia', code CNCSIS 476/2004 Unique phase on 2005: Testing under laboratory conditions of the obtained multifunctional hydraulic and electric elements, (in Romanian), financed with 40,000 RON
Contract 33371/ 29.06.2004, code CNCSIS 476/2004 Unique phase on 2004: Production and characterization of shape memory elements, shape setting and testing of thermal and mechanical memory, (in Romanian), Theme no. 11 from Annex Ia, financed with 20,000 RON;
Supplementary phase on 2004, Study of preferred α -phase precipitation within thermally induced multivariant martensitic structure, (in Romanian), Theme 7 from Annex Ia additional, financed with 6,000 RON

P11. Member (I. Carcea project leader on behalf of TUIasi) Influence of modifiers upon the structure, the deformability and the shape memory material characteristics in alloys from (Cu,Ni)-(Co,Mn)-(Al,Ga,Sb) system, (in Romanian)

Program „New Materials, Micro and Nanotechnologies” – MATNANTECH, project no. 3020284, c.f. 159(302) 2003, beneficiary the Faculty of Industrial Chemistry- București Polytechnic University, 2003-2005, Subcontract S.C.RANCON S.R.L. Iași, financed with 68.400.000 ROL

P12. Member (C. Baciú project leader on behalf of TUIasi), Super-alloying technologies of the superficial layer of metals by diffusion processes during electrolytic plasma heating, (in Romanian)

Project CERES nr. 37/12.11.2002,

financed on 2003 with 366.192.000 ROL

financed on 2002 with 18.180.000 ROL

P13. Member (I. Carcea project leader on behalf of TUIasi), Obtaining of (magnetic) shape memory alloys from the system (Cu, Ni)-(Co, Mn)-(Al, Ga), (in Romanian), Program „New Materials, Micro and Nanotechnologies” – MATNANTECH 2001, collaboration with the National Institute of Research-Development for Technical Physics Iași

Phase II/2002: Correlation between physical-mechanical characteristics, thermomechanical treatment parameters and shape memory properties at some compositions of the system (Cu, Ni)-(Co, Mn)-(Al, Ga), (in Romanian), financed with 80.000.000 ROL

Phase I/2001: Determination of the state of art in the development of shape memory alloys of the system (Cu, Ni)-(Co, Mn)-(Al, Ga), (in Romanian), financed with 80.000.000 ROL

IV. PhD THESIS

T1 Leandru-Gheorghe Bujoreanu, Technology and Equipment for Obtaining Some Shape Memory Alloys, The “Gh.Asachi” Technical University from Iași, 188 pages and 7 annex, sustained on May the 5th 1997