

LISTA LUCRĂRILOR ȘTIINȚIFICE

A. Teza de doctorat

Influența comportării neliniare a sistemelor vâscoelastice asupra izolării dinamice a fundațiilor de mașini

B. Cărți și capitole în cărți

- 1) Mladin, Gh., Leopa, A., 2014, *Mașini pentru săpat și transportat. Calculul dinamic de tracțiune și economicitate al mașinilor pentru săpat și transportat*, Galați University Press, Vol. 1, 396 pagini, ISBN 978-606-8348-69-9, ISBN 978-606-8348-70-4.2. Mladin, Gh., Leopa, A., 2013,
- 2) *Mașini pentru săpat și transportat. Transmisii clasice utilizate la mașinile pentru săpat și transportat*, Galați University Press, Vol. 2, 242 pagini, ISBN 978-606-8348-69-9, ISBN 978-606-8348-71-1.

C. Lucrări indexate ISI/BDI

- 1) **Leopa, A.**, Năstac, S., and Debeleac, C., 2012, *Researches on damage identification in passive vibro-isolation devices*, Journal Shock and Vibration, IOSS Press, Issue:5, Volume 19, pp 803-809, ISSN 1070-9622.
- 2) **Leopa, A.**, Năstac, S., Debeleac, C., 2012, *Numerical and experimental testing of normality in the functioning of the bearings system*, Journal Shock and Vibration, IOS Press, Volume 19, Issue 5, pp. 915-928, ISSN 1070-9622.
- 3) **Leopa, A.**, 2011, *Parametric method for dynamic analysis of mechanical impulsive systems actions*, Proceedings of the Romanian Academy Series A: Mathematics, Physics, Technical Sciences, Information Science, Publishing House of the Romanian Academy, pp. 63-70, ISSN: 1454-9069.
- 4) **Leopa, A.**, 2008, *Diagnosis of structural integrity using the nonlinear vibration technique*, Proceedings of the 9th WSEAS International Conference on Acoustics & Music: Theory & Applications (AMTA '08), Institutul de mecanica solidului al Academiei Române, Bucharest, Romania, Published by WSEAS Press, pp. 83-88, ISBN 978-960-6766-74-9, ISSN 1790-5095.
- 5) **Leopa, A.**, 2009, *The Shock Duration-Influence Factor Over the Dynamic Response of the Mechanical Systems*, Proceedings of the 10th WSEAS Int. Conf. on Automation & Information (ICAI '09), Prague Czech Republic, WSEAS Press, pp. 124-129, ISSN: 1790-5117, ISBN 978-960-474-064-2.
- 6) **Leopa A.**, Năstac, S., 2009, *The monitoring of the technological equipments by the technological process specific parameters*, Proceedings of the 11th WSEAS International Conference on Mathematical and Computational Methods in Science and ENGINEERING

(MACMESE '09) Morgan State University, Baltimore, USA Nov. 7-9, 2009, ISSN: 1790-2769, ISBN: 978-960-474-133-5, pag. 150-155.

- 7) Nastac, S., Debeleac, C., Curtu, I., Stanciu, M. D., **Leopa, A.**, 2009, *On dynamics stochastic evaluation of embedded systems protection against vibration*, 20th International Danube-Adria-Association-for-Automation-and-Manufacturing Symposium, Annals of DAAAM and Proceedings, volume: 20, pages: 1619-1620, published: 2009, Vienna, Austria.
- 8) **Leopa, A.**, Nastac, S., 2010, *The Impulsive Loadings Characterization, a Needful Stage in Dynamic Processes Simulation*, Proceedings of 7th International Conference of DAAAM Baltic Industrial Engineering, Tallinn, Estonia, pp. 25-29, ISBN 978-9985-59-982-2.
- 9) **Leopa, A.**, 2010, *The Impulsive Loading Evaluation of the Dynamic Technological Equipments Field*, Proceedings of the 5th IASME/WSEAS International Conference Continuum Mechanics, University of Cambridge, UK, Published by WSEAS Press, pp. 120-124, ISSN: 1790-5095, ISBN: 978-960-474-158-8.
- 10) **Leopa, A.**, Debeleac, C., 2011, *On Shock Inertial Excitation Methods for Concrete Viaduct Dynamic Testing*, 10th Biennial International Conference on Vibration Problems (ICOVP), Vibration Problems, ICOVP 2011, Supplement, pages: 57-62, published: 2011, Prague, Czech Republic.
- 11) **Leopa, A.**, Debeleac, C., 2011, *The Evaluation of the Behavior to Dynamic Loads from Traffic of Seismic Energy Dissipation Devices to the Viscous Effects*, 10th Biennial International Conference on Vibration Problems (ICOVP), Vibration Problems, ICOVP 2011, Supplement, pages: 51-56, published: 2011, Prague, Czech Republic.
- 12) **Leopa, A.**, Nastac, S., Debeleac, C., Capatana, G., Potarniche, A., 2012, *Identification of Parameters Characterizing the Nonlinear Behavior of Viscous-Elastic Systems on Dynamic Loadings*, 8th International Conference of DAAAM Baltic Industrial Engineering, Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, vols 1 and 2 , pages: 175-180, published: 2012, Tallinn, ESTONIA.
- 13) Potirniche, A., Nastac, S., **Leopa, A.**, Debeleac, C., Capatana, G., 2012, *On Unitary Rheological Approach of Vibration Isolation Passive Devices*, 8th International Conference of DAAAM Baltic Industrial Engineering, Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, vols 1 and 2 , pages: 87-91, published: 2012, Tallinn, ESTONIA.
- 14) **Leopa, A.**, Debeleac, C.N., Nastac, S., 2012, *On Evaluation Approach of Structural Integrity Level for Bridge Bearings In Respect with Impact Dynamic Test Results*, 23rd International DAAAM Symposium on Intelligent Manufacturing and Automation - Focus on Sustainability, Annals of DAAAM and Proceedings, Volume: 23, pages: 767-770, published: 2012, Zadar, CROATIA.
- 15) **Leopa, A.**, Debeleac, C., Nastac, S., 2012, *Simulation of Vibration Effects on Ground Produced by Technological Equipments*, 12th International Multidisciplinary Scientific Geoconference, SGEM 2012, Vol. V, Pages: 743-750, Published: 2012, Albena, Bulgaria.
- 16) **Leopa, A.**, Nastac, S., Debeleac, C., 2012, *Protection Against Vibrations, a Desideratum of The Sustainable Development*, 12th International Multidisciplinary Scientific Geoconference, SGEM 2012, Vol. V, Pages: 743-750, Published: 2012, Albena, Bulgaria.

- 17) Bratu, P., Stuparu, A., **Leopa, A.**, Popa, S., *The Dynamic Analyse of a Construction With the Base Insulation Consisting in Anti-Seismic Devices Modelled as a Hooke-Voigt-Kelvin Linear Rheological System*, Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, Volume: 60, Issue: 4, Pages: 465-472, Published: nov 2017.
- 18) Nastac S., **Leopa A.**, 2008, *Structural Optimization of Vibration Isolation Devices for High Performances*, International Journal of Systems Applications, Engineering & Development, Issue 2, Volume 2, 2008, pp. 66-74.
- 19) **Leopa, A.**, 2012, *Diagnosis of the dynamic isolation systems by neoprene used on viaducts, based on nonlinear vibration technique*, Sinteze de mecanica teoretica si aplicata, Editura Matrix Rom, Issue 3, no. 1, 2012, ISSN 2068-6331.
- 20) Năstac S., **Leopa, A.**, 2008, *New Structural Configurations for Vibroisolation Devices with High Isolation Performances*, WSEAS Transactions on Applied and Theoretical Mechanics, Issue 5, vol.3, pp. 155-164, ISSN 1991-8747.
- 21) **Leopa, A.**, Năstac S., 2008, *Dynamic Behaviour of Foundations in Linear and Nonlinear Elastic Characteristics Hypothesis*, WSEAS Transactions on Applied and Theoretical Mechanics, Issue 4, vol.3, pp. 145-154, ISSN 1991-8747.
- 22) Oproescu, Gh., Debeleac, C., **Leopa, A.**, Nastac, S., 2008, *On the Rheological Behaviour of the Soil in the Artificial Compacting Process*, The Annals of „Dunărea de Jos” University of Galați, Fascicle XIV, Mechanical Engineering, Galați University Press, Issue 2008, pp. 9-12, ISSN 1224-5615.
- 23) **Leopa, A.**, Ștefan, A., 2010, *Filter signals a first step in interpreting experimental results*, The Annals of „Dunărea de Jos” University of Galați, Fascicle XIV, Mechanical Engineering, Galați University Press, Issue 2010, vol. 1, pp. 71-76, ISSN 1224-5615.
- 24) Ștefan, A., **Leopa, A.**, 2010, *Study on the influence of sonic generator geometry on acoustic parameters*, The Annals of „Dunărea de Jos” University of Galați, Fascicle XIV, Mechanical Engineering, Galați University Press, Issue 2010, pp. 77-80, ISSN 1224-5615.
- 25) **Leopa, A.**, Nastac, S., 2010, *Dynamical response analysis of a system with one degree of freedom stresses by the different pulse excitation functions*, The Annals of „Dunărea de Jos” University of Galați, Fascicle XIV, Mechanical Engineering, Galați University Press, Issue 2010, vol. 2, pp. 71-74, ISSN 1224-5615.
- 26) **Leopa, A.**, 2010, *The influence of nonlinear the elastic character of viscoelastic systems on the dynamic response of mechanical systems*, The Annals of „Dunărea de Jos” University of Galați, Fascicle XIV, Mechanical Engineering, Galați University Press, Issue 2010, vol. 2, pp. 67-70, ISSN 1224-5615.
- 27) Nastac, S., **Leopa, A.**, 2010, *Comparative Analysis of Visco-elastic Models with Variable Parameters*, Analele Universității Eftimie Murgu Reșița, Anul XVII, Nr. 1, pp. 227-232, ISSN 1453 -7397.
- 28) Bratu, P., **Leopa, A.**, 2010, *Considerations on the non-linear modelling of the dynamics of the vibration and shock isolators made from composite neoprene*, The Annals of „Dunărea de Jos” University of Galați, Fascicle XIV, Mechanical Engineering, Galați University Press, Issue 2010, vol. 2, pp. 13-18, ISSN 1224-5615.
- 29) **Leopa, A.**, 2010, *The impulsive loading influence on dynamic response parameters of the viaduct type structure*, The Annals of „Dunărea de Jos” University of Galați, Fascicle XIV, Mechanical Engineering, Galați University Press, Issue 2010, vol. 2, pp. 65-67, ISSN 1224-5615.
- 30) **Leopa, A.**, Nastac, S., 2011, *Influence of the behavior of nonlinear viscoelastic systems bearing on the dynamics of bridge structures*, The Annals of „Dunărea de Jos” University of Galați, Fascicle XIV, Mechanical Engineering, Galați University Press, Issue 2010, vol. 1, pp. 51-56, ISSN 1224-5615.

- 31) Nastac, S., **Leopa, A.**, Debeleac, C., 2011, *Damage detection at vibration passive isolation device*, The Annals of „Dunărea de Jos” University of Galați, Fascicle XIV, Mechanical Engineering, Galați University Press, Issue 2010, vol. 1, pp. 47-50, ISSN 1224-5615.
- 32) **Leopa, A.**, Nastac, S., Panfiloiu, Gh., 2011, *Experimental investigation of dynamic behavior of viaducts by shock loading*, Analele Universității „Eftimie Murgu” Reșița, Anul XVIII, nr. 1, 2011, pag. 149 - 154, ISSN 1453 - 7394.
- 33) **Leopa, A.**, Nastac, S., 2012, *Characterization of Bearings Nonlinearities Influences on Viaducts Dynamic Responses*, The Annals of „Dunărea de Jos” University of Galați, Fascicle XIV, Mechanical Engineering, Galați University Press, Issue 2010, vol. 2, pp. 77-82, ISSN 1224-5615.
- 34) **Leopa, A.**, Trifan, D., 2013, *Quantification of Atmospheric Pollution by Qualitative Analysis of Precipitation as Snow*, The Annals of „Dunărea de Jos” University of Galați, Fascicle IX Metallurgy and Materials Science, Galati University Press, special issue - 2013, pg. 197-203, ISSN 1453-083X.
- 35) Ionescu, S., **Leopa, A.**, 2013, *The Experimental Method of Investigation and Diagnosis of Humidity In Structural Elements of Heritage Buildings*, The Annals of „Dunărea de Jos” University of Galați, Fascicle IX Metallurgy and Materials Science, Galați University Press, special issue - 2013, pg. 276-280, ISSN 1453-083X.
- 36) **Leopa, A.**, 2013, *The dynamic response analysis of the viaduct supported on antiseismic systems with selective links as viscoelastic and dry friction type*, The Annals of „Dunărea de Jos” University of Galati, Fascicle XIV, Mechanical Engineering, Galați University Press, 2013 issue, vol. 2, pp. 33-38, ISSN 1224-5615.
- 37) **Leopa, A.**, 2014, *The friction force dependence at simple pendulum sliders by relative speed and temperature of the surfaces in contact*, The Annals of Dunarea de Jos” University of Galati Fascicle XIV Mechanical Engineering, ISSN 1224-5615, 2014.
- 38) **Leopa, A.**, Anghelache, D., 2015, *Urban Pollution Issues Generated by Trams Traffic*, The Annals of “Dunarea de Jos” University of Galati. Fascicle IX. Metallurgy and Materials Science, No, 4-2015, ISSN 1453–083X.
- 39) **Leopa A.**, Șerban A., 2016, *Aspects Regarding the Impact of Energy Recovery from Domestic Waste on Atmosphere*, The Third International Conference of Young Researchers “New trends in environmental and materials engineering” (TEME), 21 – 23 october 2015, Galați, Romania, The Annals of “Dunarea de Jos” University of Galati, Fascicle IX- Metallurgy and Materials Science, volume 1/ 2016, p. 21-26, ISSN 1453 – 083X, BDI Cambridge Scientific Abstracts.
- 40) Nastac S., Debeleac C., **Leopa A.**, 2016, *Dynamic characterization of failure imminence for elastomeric-based vibration isolators*, Acta Electrotehnica, Volume 57, Number 1-2, 2016, Special Issue, pp.136-140.
- 41) Leopa, A., Anghelache, D., *Assessment of Concentration of Suspended Particles During Operation of an Installation Intended for Obtaining of Vegetal Biostimulants from After-Cropping Agricultural Waste and Herbal Medicinal Products*, The Fourth Edition Of The International Conference “New Trends in Environmental and Materials Engineering” TEME 2017 25th -27th of October 2017 Galați, Romania
- 42) Anghelache, D., Leopa, A., *Assessment of Acoustic Parameters During Operation of an Installation Intended for Obtaining of Vegetal Bio-Stimulants from after - Cropping Agricultural Waste and Herbal Medicinal Products*, The Fourth Edition Of The International Conference “New Trends in Environmental and Materials Engineering” TEME 2017 25th -27th of October 2017 Galați, Romania

**D. Lucrări publicate în ultimii 10 ani în reviste și volume de conferințe cu referenți
(neindexate)**

- 1) Năstac, S., **Leopa, A.**, Debeleac, C., 2008, *Experimental researches regarding the noise pollution in education institutions*, The Proceedings of the The International Conference „Constructions 2008”, Acta Technica Napocensis, Section Civil Engineering, 51, vol. III, 2008, CNCSIS B cod 145, pp. 277-284, ISSN 1221-5848.
- 2) **Leopa, A.**, 2008, *The influence of the parameters of impulsive actions on the dynamic answer of the mechanical systems*, The Exploratory Workshop „Modelarea reologică avansată a sistemelor compozite din neopren pentru izolarea bazei”, Brăila, ISBN 978-973-8132-68-9.
- 3) **Leopa, A.**, 2008, *Influența parametrilor acțiunilor impulsive asupra răspunsului dinamic al sistemelor mecanice*, Al XIV-LEA Simpozion Național de Utilaje pentru Construcții, SINUC 2008, Universitatea Tehnică de Constructii din București, ISBN 978-973-100-050-3. **Leopa, A.**, Năstac, S., 2009, *Impulsive action equipments simulation - a needful stage in vibrations control*, The 5th International Vilnius Conference, Knowledge-Based Technologies and or Methodologies for Strategic Decision of Sustainable Development, Vilnius, Lithuania, pp. 386-391, ISBN: 978-9955-28-482-6.
- 4) **Leopa, A.**, 2010, *Study Regard on the Influence of Nonlinear Elastic Character of Viscoelastic Systems on Dynamic Response of Mechanical Systems*, Proceedings of 1st EAA – EuroRegio 2010, Congress on Sound and Vibration, Ljubljana, Slovenia, Abstract number 229 – pag. S46 in Acta Acustica, vol. 96, Suppl. 1, E 21 466, ISSN 1610-1928.
- 5) **Leopa, A.**, Năstac, S., Debeleac, C., 2011, *On damage identification techniques at vibroisolation devices*, *International Conference on Structural Engineering Dynamics*, Tavira, Portugalia, ISBN 978-989-96276-1-1.
- 6) **Leopa, A.**, Năstac, S., Drăgan, N., Debeleac, C., 2011, *Considerations on the influence of viscoelastic behavior of nonlinear systems bearing on the dynamic constructions response*, *International Conference on Structural Engineering Dynamics*, Tavira, Portugalia, ISBN 978-989-96276-1-1.
- 7) **Leopa, A.**, 2011, *Methodology for identifying the degradation level of viscoelastic systems bearing of reinforced concrete bridge structures*, Proceedings of the XI-th Symposium – Acoustics and Vibration of Mechanical Structures AVMS – 2011, Politehnica University of Timișoara, ISSN 1843-0902.

- Selecție cu maximum 20 lucrări în volume de conferințe

- 1) **Leopa, A.**, 2008, *Diagnosis of structural integrity using the nonlinear vibration technique*, Proceedings of the 9th WSEAS International Conference on Acoustics & Music: Theory & Applications (AMTA '08), Institutul de mecanica solidului al Academiei Române, Bucharest, Romania, Published by WSEAS Press, pp. 83-88, ISBN 978-960-6766-74-9, ISSN 1790-5095.
- 2) **Leopa, A.**, 2009, *The Shock Duration-Influence Factor Over the Dynamic Response of the Mechanical Systems*, Proceedings of the 10th WSEAS Int. Conf. on Automation & Information (ICAI '09), Prague Czech Republic, WSEAS Press, pp. 124-129, ISSN: 1790-5117, ISBN 978-960-474-064-2.
- 3) **Leopa A.**, Năstac, S., 2009, *The monitoring of the technological equipments by the technological process specific parameters*, Proceedings of the 11th WSEAS International Conference on Mathematical and Computational Methods in Science and ENGINEERING

- (MACMESE '09) Morgan State University, Baltimore, USA Nov. 7-9, 2009, ISSN: 1790-2769, ISBN: 978-960-474-133-5, pag. 150-155.
- 4) **Leopa, A.**, Nastac, S., 2010, *The Impulsive Loadings Characterization, a Needful Stage in Dynamic Processes Simulation*, Proceedings of 7th International Conference of DAAAM Baltic Industrial Engineering, Tallinn, Estonia, pp. 25-29, ISBN 978-9985-59-982-2.
 - 5) **Leopa, A.**, Debeleac, C., 2011, *On Shock Inertial Excitation Methods for Concrete Viaduct Dynamic Testing*, 10th Biennial International Conference on Vibration Problems (ICOVP), Vibration Problems, ICOVP 2011, Supplement, pages: 57-62, published: 2011, Prague, Czech Republic.
 - 6) **Leopa, A.**, 2011, *Parametric method for dynamic analysis of mechanical impulsive systems actions*, Proceedings of the Romanian Academy Series A: Mathematics, Physics, Technical Sciences, Information Science, Publishing House of the Romanian Academy, pp. 63-70, ISSN: 1454-9069.
 - 7) **Leopa, A.**, Debeleac, C.N., Nastac, S., 2012, *On Evaluation Approach of Structural Integrity Level for Bridge Bearings In Respect with Impact Dynamic Test Results*, 23rd International DAAAM Symposium on Intelligent Manufacturing and Automation - Focus on Sustainability, Annals of DAAAM and Proceedings, Volume: 23, pages: 767-770, published: 2012, Zadar, CROATIA.
 - 8) **Leopa, A.**, Debeleac, C., Nastac, S., 2012, *Simulation of Vibration Effects on Ground Produced by Technological Equipments*, 12th International Multidisciplinary Scientific Geoconference, SGEM 2012, Vol. V, Pages: 743-750, Published: 2012, Albena, Bulgaria.
 - 9) **Leopa, A.**, Nastac, S., Debeleac, C., 2012, *Protection Against Vibrations, a Desideratum of The Sustainable Development*, 12th International Multidisciplinary Scientific Geoconference, SGEM 2012, Vol. V, Pages: 743-750, Published: 2012, Albena, Bulgaria.
 - 10) **Leopa, A.**, Năstac, S., and Debeleac, C., 2012, *Researches on damage identification in passive vibro-isolation devices*, Journal Shock and Vibration, IOSS Press, Issue:5, Volume 19, pp 803-809, ISSN 1070-9622.
 - 11) **Leopa, A.**, Năstac, S., Debeleac, C., 2012, *Numerical and experimental testing of normality in the functioning of the bearings system*, Journal Shock and Vibration, IOS Press, Volume 19, Issue 5, pp. 915-928, ISSN 1070-9622.
 - 12) Bratu, P., Stuparu, A., **Leopa, A.**, Popa, S., *The Dynamic Analyse of a Construction With the Base Insulation Consisting in Anti-Seismic Devices Modelled as a Hooke-Voigt-Kelvin Linear Rheological System*, Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, Volume: 60, Issue: 4, Pages: 465-472, Published: nov 2017

E. Brevete obținute în întreaga activitate

- nu este cazul

F. Proiecte/Granturi/Contracte de cercetare științifică cu finanțare de la instituții din România

<i>Programul / Proiectul / Beneficiar</i>	<i>Funcția</i>	<i>Contribuții proprii în cadrul proiectului</i>	<i>Perioada</i>
GRANT CNCSIS, tema - <i>Influența comportării neliniare a sistemelor vâscoelastice asupra izolării dinamice a fundațiilor de mașini, PN II - RU –TD nr. 11/01.10.2007, cod 183</i>	Director proiect	Realizarea proiectului	2007 - 2009
GRANT CNCSIS, tema - <i>Analiza comportării la solicitări dinamice provenite din seisme și trafic rutier a viaductelor cu legături mecanice selective cu disiparea energiei prin efecte vascoase și prin frecare uscată, PN II - RU –PD nr. 42/09.08.2010, cod 597</i>	Director proiect	Realizarea proiectului	2010-2012
Grant de tip A - <i>Cercetări teoretice și experimentale ale sistemelor antivibratiliile cu caracteristici neliniare folosite la izolarea vibrațiilor, cu aplicații privind evaluarea performanțelor de durabilitate și eficiența a izolării, Contract nr.33445/2002, tema nr. 18, cod CNCSIS 453</i>	Membru colectiv	Cercetare bibliografică	2000 - 2003
Grant de tip TD- <i>Analiza comportării neliniare a sistemului teren – masina în procesul de vibroînfigere a elementelor de Construcții în teren, Contract CNCSIS nr. 437 / 2003</i>	Membru colectiv	Cercetare bibliografică	2003-2004
Grant de tip TD <i>Analiza comportării dinamice a incarcatoarelor frontale în vederea stabilirii performanțelor de calitate tinand seama de interacțiunea cupa – material în procesul de incarcare, Contract CNCSIS nr. 441 / 2003</i>	Membru colectiv	Cercetare bibliografică	2003
Grant de tip TD A - <i>Cercetări teoretice și experimentale ale sistemelor antivibratiliile cu caracteristică neliniară folosite la izolarea vibrațiilor cu aplicații privind evaluarea performanțelor de durabilitate și eficiență a izolării, Contract CNCSIS nr. 27672/2005 tema nr. 3 cod 1330</i>	Membru colectiv	Realizarea unor modele numerice de pre-evaluare calitativă și cantitativă a parametrilor funcționali	2005

<i>Cercetari privind realizarea unor elemente modulare din materiale compozite pentru marirea rezistentei la socuri mecanice a structurilor protective ale cabinelor masinilor mobile - Cercetare de excelenta -EMCOM - 2006 - 2008</i>	Membru colectiv	- cercetare bibliografică	2006-2008
<i>Sistem de monitorizare în timp real a vibrațiilor și zgomotului surselor industriale cu impact asupra colectivitatilor umane și a cladirilor din mediul urban - SMONTREVIZ -Cercetare de excelenta - 2006-2008</i>	Membru colectiv	- cercetare bibliografică	2006-2008
<i>Cercetari privind realizarea din materiale compozite a elementelor modulare în scopul creșterii rezistentei la socuri a structurilor de protecție mecanică destinate parapetilor pentru drumuri. - ELMOSTPRO - Cercetare de excelenta - 2006 -2008</i>	Membru colectiv	- cercetare bibliografică	2006-2008
<i>Proces inovativ și instalație pentru obținere de materiale compozite din deseuri din industria de pielărie. Contr. nr.434/20.09.2004. - Program MENER</i>	Membru colectiv	Participare la elaborarea sintezei cercetării	2004-2006
<i>Biocompozite din resurse regenerabile – cercetări și soluții avansate pentru creșterea eficienței energetice a clădirilor, Bio4Build, Contract 93/2014, Proiect PN-II-PT-PCCA-2013-4-0989</i>	Membru colectiv	Participare la elaborarea sintezei cercetării	2014-2017
<i>Cercetări privind obținerea de biostimulatori vegetali din deșeuri agricole postrecoltare și plante medicinale, pentru creșterea calității produselor agricole și horticole - BIOSTIM, Contract 93/2014, Proiect PNIII 38 PTE/2016</i>	Membru colectiv	Participare la elaborarea sintezei cercetării	2014-2017

Data:

18.06.2020

Semnatura: