

TEZA DE DOCTORAT

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TEZA DE ABILITARE

1. SCHNAKOVSKY, C., Contribuții privind managementul ciclului de viață al produselor industriale, Bacău, 2015

LISTA CU INVENTII SI INOVATII

1. Certificat de inovator nr. 3581 cu tema " Dispozitiv pentru introdus nituri de polietilena in vederea fixarii jgheaburilor din PVC in contrapanou".
2. Certificator de inovator nr. 3803 cu tema " Dispozitiv de dezizolat si dezvelit".
3. Brevet de inventie nr. 106524 cu denumirea " Matrita combinata".
4. Brevet de inventie nr. 113727 cu denumirea "Masina automata de inscriptionat"
5. Brevet de invenție nr. 2008 0067 cu denumirea "Robot de jucat șah"

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LISTA CU CONTRACTELE DE CERCETARE STIINTIFICA

1. V Frame Programme: *The intelligent system for net shape forming of sheet metal products*, Colaboratori : Metal Forming Institute Poznan-Polonia, Société d'Embutissage Precis-Franta, Auto Tools Warszawa-Polonia, Aerostar Bacau-Romania, WMW Bacau-Romania, PJ Ferramentas-Portugalia, Techn. Univ. of Wroclaw - Polonia, Université de Savoie-Franta, University of Porto-Portugalia, Perioada: 2002-2005, Valoare totala pentru Universitatea Bacau : 150.000 Euro, Membru în echipă și responsabil administrativ;
2. SCHNAKOVSKY, C., s.c., *CERCETARI EXPERIMENTALE PRIVIND MODELAREA GENERARII FLANCURILOR DINTILOR ROTILOR DINTATE CONICE*, grant CNCSIS 2002, director de proiect;
3. SCHNAKOVSKY, C. *Studiul privind prelucrarea prin deformare plastica a rotilor dintate conice cu dinti drepti, folosind o noua metoda de generare*, Etapa: Prezentarea metodei si stabilirea relatiilor de calcul, in vederea generarii si determinarii erorilor de prelucrare a flancurilor rotilor dintate conice

cu dinti drepti, Contract de cercetare stiintifica nr. 3013/1994, tema nr. C5, faza nr. 1.1, cod domeniu 3313.09, valoare 900000 lei, cu Ministerul Invatamantului, director de proiect;

4. PINTILIE, Gh, SCHNAKOVSKY, C. ZICHIL, V. *Studii si cercetari privind folosirea elemntelor finite pentru stabilirea profilului optim al organelor de obturare*, Contract de cercetare stiintifica A1.2/94 MAT, valoare 800000 lei, cu CEPROAR Targoviste
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10. PIR Banca Mondială partener cu Univ. Tehnică de Construcții București nr. /2005
11. Programul „Stimularea aplicării invențiilor - INVENT”, perioada 2002-2004, „Studii și cercetări privind realizarea unei mașini de recoltat cartofi pe două rânduri”, în colaborare cu S.C. Mecanica Ceahlău S.A. Piatra Neamț și I.N.M.A. București;
12. Programul „Stimularea aplicării invențiilor - INVENT”, perioada 2004-2006, „Mașină combinată de semănat și fertilizat în teren nearat tip SEMAGRA SC-25/06” (director de proiect), S.C., Mecanica Ceahlău S.A. este partener
13. Contract de Excelență CEEX – 2005 nr. 22/10.10.2005, parteneri la Universitatea Dunărea de Jos din Galați cu tema: Metode de simulare, modelare și producție virtuală bazată pe tehnologia informației și comunicării dedicate noii generații de sisteme de prelucrare reconfigurabile, 160.000 RON, 2005 – 2007
14. Contract de Excelență CEEX – 2005 nr. 20/03.10.2005, parteneri la Universitatea Tehnică Gh. Asachi Iași cu tema: O nouă tehnologie de prelucrare a rulmenților, 80.000 RON, 2005 – 2007, responsabil partener;
15. Contract de Excelență CEEX – 2006, parteneri la Universitatea Politehnica București cu tema: Cercetari in vederea creerii unor contoare de durata de viata pentru evaluarea on-line a sigurantei in functionare a structurilor mecanice, 167.000 RON, 2006 – 2008
16. Contract de Excelență CEEX – 2006 nr. 243/2006, parteneri la Universitatea Politehnica Timșoara cu tema: Rețea națională de cercetare în domeniul ingineriei integrate a produselor și proceselor, 60.000 RON, 2006 – 2008, responsabil partener;
17. Contract de Excelență CEEX – 2006, parteneri la S.C. Aerostar S.A. Bacău cu tema: Microplatforma stabilizata pentru echipamente video de supraveghere aeriana, 70.000 RON, 2006 – 2008, membru în echipă;
18. Contract de Excelență CEEX – 2006 nr. 317/2006, cu tema: Tehnologie integrata de faricatie a pieselor realizate din table metalice subtiri, 1.400.000 RON, 2006 – 2008, membru în echipă;

19. Contract PNCDI – 2007 nr. 71-094/2007, cu tema: Tehnologii de mare performanță pentru creșterea durabilității pieselor, 1.000.000 RON, 2007-2009, responsabil partener.
20. Tehnologii ecologice și economice pentru prelucrarea tablelor metalice folosite la realizarea blindajelor (ECOBIND), Contract PNII nr. 294/2014, Director proiect;
21. PLM Adaptor, Proiect POSDRU, respnsabil regional;
22. Dezvoltarea managementului calității academice la nivel de sistem, bazat pe proiectarea și implementarea unui sistem informatic pentru gestionarea experienței și accesarea informației în contextul promovării universității inovative, POSDRU 55585, Membru în echipă;
23. Creșterea capacității de integrare pe piața muncii a studenților și absolvenților prin consiliere și plasamente practice, POSDRU/160/2.1/S/133020, Membru în echipă;
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L I S T A D E L U C R Ă R I

1. TEZE DE ABILITARE/DOCTORAT

1. Teză de abilitare, Universitatea „Vasile Alecsandri” din Bacău, Domeniul Ingineria Mediului, 2015.
2. Teză de abilitare (HDR), Université de Lille/Université du Littoral Côte d'Opale, Franța, Domeniul Chimie, 2014.
3. Teza de doctorat, Universitatea Tehnică „Gh. Asachi” Iași, Domeniul Inginerie Chimică, 2004.

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2. CNFIS- FDI_2023-SSD_0132 -Mobilitatea academica - suport al creșterii vizibilității internaționale a IOSUD_UBc - membru
3. Proiect educație antreprenorială-Engineer-a successful entrepreneur (EngSE) - membru
4. CNFIS-FDI-2022-0125 - Internaționalizarea studiilor universitare de master si doctorat – suport al performantei si formarii tinerilor prin si pentru cercetare - membru.
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Data

02.10.2025

Semnătura

Prof.univ.dr.ing.habil. NISTOR Ileana-Denisa

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Declar pe propria răspundere că datele prezentate sunt în conformitate cu realitatea.

Data,
07.10.2025

Semnătura,
Conf.univ.dr.ing. Vasilica-Alisa ARUȘ

ACTIVITATE ȘTIINȚIFICĂ

▪ Teza de doctorat

✓ noiembrie 2003 – septembrie 2007, cu susținerea tezei la Universitatea din Orléans (Franța) în data de 1 februarie 2008, teză în cotutelă între Universitatea din Orléans (FR) și Universitatea din București (RO), sub conducerea Prof. Gérard GUILLAUMET (Universitatea din Orléans), Prof. Adriana FÎNARU (Universitatea „Vasile Alecsandri” din Bacău) și Prof. Ioan SĂNDULESCU (Universitatea din București).

Titlul tezei de doctorat: „*Dipyridopyrazines et dihydrodipyridopyrazines. Synthèse et fonctionnalisation*”, susținută la Universitatea din Orléans (Franța) în data de 1 februarie 2008, titlul de doctor în Chimie organică (Ministère de l'Enseignement Supérieur et de la Recherche, Université d'Orléans nr. ORLEANS 4692578/07.04.2008), atestat echivalare diplomă de doctor în domeniul Chimie (Ministerul Educației, Cercetării și Tineretului, Nr. 400334/19.02.2009)

▪ Cărți

✓ Raluca-Ioana Tâmpu, **Oana-Irina Patriciu**, Adriana-Luminița Fînaru – *METODE DE ANALIZĂ ȘI POSIBILITĂȚI DE VALORIFICARE A UNOR PRODUSE VEGETALE*, Editura Alma Mater, Bacău, **2022**, ISBN 978-606-527-697-0, 114 pagini.

✓ Adriana-Luminița Fînaru, **Oana-Irina Patriciu** – *CHIMIA COMPUȘILOR ORGANICI CU FUNCȚIUNI ȘI A HETEROCICLILOR - Note de curs și aplicații*, Editura Alma Mater, Bacău, **2014**, ISBN 978-606-527-414-3, 220 pagini.

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▪ Participări la diverse manifestări științifice naționale și internaționale

1. Avătămăniței, I., **Patriciu, O.-I.**, Ifrim, I.-L., Grigoraș, C.-G., Fînaru, A.-L.: „The influence of the extraction conditions on the active components from some by-products of black chokeberry (*Aronia melanocarpa*)”, **20th International Conference of Constructive Design and Technological Optimization in Machine Building – OPROTEH 2025**, 21 – 23 mai 2025, Bacău (România), pag. 172, poster, conferință internațională.
2. Roșcan, A.G., Ifrim, I.-L., **Patriciu, O.-I.**, Fînaru, A.-L.: „Bioactive compounds from orchard waste: a pharmacological perspective on *Rubus* and *Prunus* species”, **20th International Conference of Constructive Design and Technological Optimization in Machine Building – OPROTEH 2025**, 21 – 23 mai 2025, Bacău (România), pag. 166, poster, conferință internațională.
3. Alexa, I.-C., Grosu, L., **Patriciu, O.-I.**: „Characterization of some grape marc extracts by ultraviolet-visible absorption spectroscopy and statistical analysis”, **20th International Conference of Constructive Design and Technological Optimization in Machine Building – OPROTEH 2025**, 21 – 23 mai 2025, Bacău (România), pag. 149, poster, conferință internațională.
4. Ștefănescu, I.-A., **Patriciu, O.-I.**, Ifrim, I.-L.: „Effect of ginger extract for pork meat preservation”, **20th International Conference of Constructive Design and Technological Optimization in Machine Building – OPROTEH 2025**, 21 – 23 mai 2025, Bacău (România), pag. 147, poster, conferință internațională.

5. Roșcan, A.G., Ifrim, I.-L., **Patriciu, O.-I.**, Fînaru, A.-L.: „Valorization of vegetable waste through the extraction of bioactive compounds”, *Doctoral School Days „Innovation and Doctoral Research” at “Vasile Alecsandri” University of Bacau, Romania*, 20 – 22 mai 2025, Bacău (România), comunicare orală, conferință internațională.
6. **Patriciu, O.-I.**, Grosu, L., Alexa, I.-C., Fînaru, A.-L.: „Influence of brewing time on physicochemical and sensorial properties of some Romanian red fruits tea infusions”, *International Conference MODERN TECHNOLOGIES IN THE FOOD INDUSTRY – 2024 (MTFI – 2024)*, 17 – 18 octombrie 2024, Chișinău (Republica Moldova), publicată în Proceedings of the International Conference MODERN TECHNOLOGIES IN THE FOOD INDUSTRY – 2024, pag. 69, poster, conferință internațională.
7. Sandu-Bălan (Tăbăcariu), A., **Patriciu, O.-I.**, Ștefănescu, I.-A., Ifrim, I.-L., Fînaru A.-L.: „*Sambucus nigra* L.: a source of bioactive compounds with antifungal effects”, *Conferința Națională de Chimie 2024 (CNCHIM – 2024), ediția XXXVII*, 25 – 27 septembrie 2024, Târgoviște (România), poster, conferință națională cu participare internațională.
8. Sandu-Bălan (Tăbăcariu), A., **Patriciu, O.-I.**, Ștefănescu, I.-A., Ifrim, I.-L., Fînaru A.-L.: „Antifungal activity and phytochemical analysis of walnut (*Juglans regia*) extracts”, *19th International Conference of Constructive Design and Technological Optimization in Machine Building – OPROTEH 2024*, 22 – 24 mai 2024, Bacău (România), pag. 119, poster, conferință internațională.
9. Grosu, L., **Patriciu, O.-I.**, Alexa, I.-C., Fînaru A.-L.: „Physico-chemical, phytochemical and sensorial analyses of some Romanian red fruits tea infusions”, *19th International Conference of Constructive Design and Technological Optimization in Machine Building – OPROTEH 2024*, 22 – 24 mai 2024, Bacău (România), pag. 108, poster, conferință internațională.
10. Alexa, I.-C., Grosu, L., **Patriciu, O.-I.**, Fînaru A.-L.: „Approaches on the sustainable valorization of agro-food by-products and waste”, *19th International Conference of Constructive Design and Technological Optimization in Machine Building – OPROTEH 2024*, 22 – 24 mai 2024, Bacău (România), pag. 107, comunicare orală, conferință internațională.
11. Sandu Bălan Tăbăcariu, A., **Patriciu, O.-I.**, Ștefănescu, I.-A., Ifrim, I.-L., Fînaru A.-L.: „Study of the stability of walnut by-products and elderberry extracts - sustainable alternatives”, *Doctoral School Days „Innovation and Doctoral Research” at “Vasile Alecsandri” University of Bacau, Romania*, 20 – 25 mai 2024, Bacău (România), comunicare orală, conferință internațională.
12. Sandu-Bălan Tăbăcariu, A., **Patriciu, O.-I.**, Ștefănescu, I.-A., Ifrim, I.-L., Fînaru A.-L.: „Antifungal activity of extracts from *Sambucus nigra* and *Juglans regia* by-products”, *7th International Conference of the Doctoral School (CSD 2024) „Excellence in Doctoral Studies through Innovation, Convergence and Interdisciplinarity” at the “Gheorghe Asachi” Technical University of Iasi, Romania*, 15 – 17 mai 2024, Iași (România), online, comunicare orală, conferință internațională.
13. Nicuță D., Alexa I.-C., Grosu L., **Patriciu O.-I.**, Fînaru A.-L.: „*Allium cepa* assay – in vivo investigation of cytotoxicity potential of different extracts of natural sources”, *Conferința națională cu participare internațională Ecologia și Protecția Ecosistemelor (EPE), Ediția a XIV-a*, 2-4 noiembrie 2023, Bacău (România), publicată în volumul Book of Abstracts of Conference 'Ecology and Protection of Ecosystems'– The XIVth Edition, pag. 118-119, poster, conferința națională cu participare internațională.
14. Sandu Bălan (Tăbăcariu), A., **Patriciu, O.-I.**, Ștefănescu, I.-A., Ifrim, I.-L., Fînaru A.-L.: „*Sambucus nigra* L.: characterization of elderberry extracts obtained by various methods”, *18th International Conference of Constructive Design and Technological Optimization in*

- Machine Building – OPROTEH 2023*, 11 – 13 mai 2023, Bacău (România), poster, conferință internațională.
15. Alexa, I.-C., Grosu, L., **Patriciu, O.-I.**, Fînaru A.-L.: „Fruits rolls enriched with grape pomace powder - sensory evaluation and consumer acceptability”, *18th International Conference of Constructive Design and Technological Optimization in Machine Building – OPROTEH 2023*, 11 – 13 mai 2023, Bacău (România), poster, conferință internațională.
 16. Sandu Bălan Tăbăcariu, A., **Patriciu, O.-I.**, Ștefănescu, I.-A., Ifrim, I.-L., Fînaru A.-L.: „The influence of the extraction methods on the antifungal potential of the walnut (*Juglans regia* L.)”, *Doctoral School Days „INNOVATION AND DOCTORAL RESEARCH” at “Vasile Alecsandri” University of Bacau, Romania*, 10 – 12 mai 2023, Bacău (România), hybrid conference, comunicare orală, conferință internațională.
 17. Alexa, I.-C., Suceveanu, E.-M., Nicuță D., Grosu, L., **Patriciu, O.-I.**, Fînaru, A.-L.: „New approaches for *Fetească neagră* grape pomace valorisation”, *International Conference “Modern Technologies in Food Industry” (MTFI-2022)*, 20-22 octombrie 2022, Chișinău (Republica Moldova), mixed regime (online and offline), poster, conferință internațională.
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Membru în echipă

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1. **SeIFI@UBc**: Proiect SAS „Simulated Enterprises in Food Industry at the „Vasile Alecsandri” University of Bacău (SeIFI@UBc)” Octombrie 2024 – Februarie 2025
2. **CNFIS-FDI-2022-0132**: „Mobilitatea academică - suport al creșterii vizibilității internaționale a IOSUD_UBc – Mob_InterVIZ_UBc”

3. **CNFIS-FDI-2022-0208:** „Dezvoltarea capacității de cercetare a Universității „Vasile Alecsandri” din Bacău prin consolidarea infrastructurii, colaborare și abordarea unor tematici multidisciplinare _ UBc-ConCoRD”
4. **POCU/90/6.13/6.14/108612/05.07.2018** (49063/05.07.2018): „Parteneriat pentru stagii de practică - Primul pas pentru o carieră în industria alimentară” Cod SMIS 108612, Programul Operațional Capital Uman 2014-2020, Apel nr. POCU/90/6.13/6.14– Stagii de practică elevi și studenți în sectorul agroalimentar, industrie și servicii.” ID Cod SMIS 2014+:108612, Date contract: POCU/90/6.13/6.14/108612/05.07.2018 (49063/05.07.2018), Perioada: 2018-2020
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L I S T A

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1. Teza de doctorat: „Cercetări privind optimizarea canalizației din chiulasă și a procesului arderii la m.a.c. cu supape sferice, pentru autovehicule”, Universitatea „Transilvania” Brașov, mai 1998, conducător științific prof. univ. dr. ing. Dan Abăitancei

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Data:

Semnătura:

07.10.2025

ANEXA 1

LISTA LUCRĂRILOR ELABORATE ȘI PUBLICATE

Teza de doctorat	
TÂMPU Nicolae Cătălin, 2011. “ <i>Contribuții teoretice și experimentale privind efectele tensiunilor reziduale generate prin frezare asupra calității suprafețelor prelucrate</i>”, Coordonator științific, Prof. dr. ing. Gheorghe BRABIE, Universitatea „Vasile ALECSANDRI” din Bacău; - susținere publică la Universitatea „Vasile ALECSANDRI” din Bacău, în 24.10.2011; - în baza Ordinului Ministrului Educației, Cercetării, Tineretului și Sportului, nr. 6697 din 21.12.2011 a fost emisă diploma de doctor Seria H, Nr.0004723 / 28.03.2012, în Domeniul Inginerie Industrială.	

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Contracte de cercetare	
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20	„Utilizarea sistemelor CAD și construcția prin fabricare aditivă (FDM),a reperelor din industria tâmplăriei din aluminiu și PVC” - UBcnr.2(4879)/2021; Nr membri -6; Membru in echipa ; Valoare 25920 Ron;
	Cercetarea – din laboratoare către societate. Dezvoltarea capacității de cercetare a Universității „Vasile Alecsandri” din Bacău prin valorificarea apartenenței la ecosistemul CDI din Regiunea Nord-Est; CNFIS-FDI-2023-F-0069; Nr membri -15; Membru in echipa ; Valoare 400000 Ron;

Tâmpu Nicolae Cătălin– Lista lucrărilor elaborate și publicate

	iEnterprise@UBc; CNFIS-FDI - 2024-F-0556; Nr membri -15; Membru in echipa ; Valoare 250000 Ron;

**Data completării,
12.10.2025**

**Semnătura,
sl. dr. ing. Tâmpu Nicolae Cătălin**

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Prof. dr. ing. Culea George

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Reviste de specialitate

d) Studii publicate în volumele unor manifestări științifice internaționale recunoscute din țară și din străinătate (cu ISSN sau ISBN)

d1) Articole/studii publicate în volumele unor manifestări științifice internaționale recunoscute din străinătate (cu ISSN sau ISBN)

1. L'augmentation de l'efficience énergétique aux panneaux solaires par leur orientation dynamique, Culea George - World Energy System Conference, Conference Proceedings, Torino, Italy, 2006 , pag 337-381, ISBN 88-87 380-51-1, ISBN 13:978-88-87380.
2. Modélisation des systèmes complexes a l'aide de Neural Pétri Network – NPN, Culea George, Ababei S., SIELMEN 2003, 4th International Conference on Electromechanical and Power System, Chişinău, 26-27-th september, volume II, pag 135-139, Editura Tehnică a Moldovei, ISBN 9975-9704-9-4, 9975-9771-1
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4. Modélisation du contrôle de l'évolution de l'usure en temps d'un centre d'usinage, Culea G., Ababei S., SIELMEN 2003, 4th International Conference on Electromechanical and Power System, Chişinău, 26-27-th september, volume II, pag 135-139, Editura Tehnică a Moldovei, ISBN 9975-9704-9-4, 9975-9771-1-1.
5. Artificial Neural Networks Design for Synthetic Brains, Aur, D., Culea, G., The Proceedings of The International Conference on Signal – Processing Applications & Technology , ICSPAT 98, 13-16, september, 1998, TORONTO, Ontario, CANADA.
6. Neural bioadaptive control system for aircrafts, Aur, D., Culea, G., The Proceedings of The International Conference on signal – Processing Applications & Technology, ICSPAT 97, 14-17 september 1997, SAN DIEGO, CA, USA, www.icspat.com/97sess/97sess31.htm.
7. Fuzzy Adaptive Controller for Aircrafts, Aur, D., Culea, G., Fuzzzz-Neuro-Systeme '97, Computational Intelligence, Internationaler Workshop, 12-14 marz 1997, Universitat Gesamthochschule Paderbon, Germania.
8. Expert system for design, manufacture and control, Schnakovszky C., Culea G., Proceedings, 5 th Inrenational Workshop on ROBOTICS in ALPE - ADRIA DANUBE REGION RAAD' 96 , Budapest, Hungary, june 10-13 1996, pag 521-525, ISBN 963 420 4821.
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10. Flexibile manipulators static and dynamic analysis using finite element method, Schnakovszky C., Culea G., 4 th Internatinal Workshop on Robotics in Alpe – Adria Region RAA' 95 , july 6-8, 1995, Pörschach, Austria, Preprints, volume 1, of the pag. 99-102.
11. Modelarea protecţiilor maximale de tensiune şi curent prin Reţele Petri, Culea G. - Prima Conferinţă Internaţională de Sisteme Electromecanice, SIELMEC 97, 16-18 oct.1997, Chişinău , volum II, Editura Tehnica, ISBN 9975-910-22-X..
12. Modelarea sistemelor flexibile de fabricaţie prin Reţele Petri, Culea George., Politici energetice pentru o dezvoltare durabilă, - Volum lucrări Simpozion Internaţional ELECTRO '96, Editura Tehnică, Chişinău 1997, ISBN 9975-910-24-6.
13. Sisteme de conducere a proceselor industriale realizate cu automate programabile, Culea George, Politici energetice pentru o dezvoltare durabilă, - Simpozion International ELECTRO"96, Chisinau 15-17 oct., 1996.ISBN 9975-910-24-6
14. Computer aided measuring, designing and manufacturing flexible systems, Schnakovszky C., Culea G., 5 th International DAAM Symposium, Slovenia, 27-29 october 1994, volum Samlung der kurzfassungen collection of summaries, Viena 1994, ISBN 3-901509-3, ISBN 86-435-0084-4.

15. Structures of dates distributed processing in the CIM systems, Culea George., Schnakovszky C, 5 th International DAAM Symposium, Slovenia, 27-29 october 1994, volum Samlung der kurzfassungen collection of summaries, Viena-Austria 1994, ISBN 3-901509-3, ISBN 86-435-0084-4
16. Modélisation des systèmes flexibles d'assemblage par réseaux de petri orientés objet, Culea George, Popescu Cornel, Culea Cătălina Mihaela, Proceedings Deuxième colloque francophone PLUridisciplinaire sur les Matériaux, l'Environnement et l'Electronique (PLUMEE 2011) 30 mai - 02 juin 2011, Limoges, France, ISBN 978-2-84287-539-8.

d2) Articole/studii publicate în volumele unor manifestări științifice internaționale recunoscute din țară (cu ISSN sau ISBN)

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2. Advanced control methods for the efficiency improvement in energy generation and use, Botan, C., Rosu, E., Culea, G., Atudorei, I. (2007). Proc. of 3rd International Conference CIEM, National Excellence Research Program, MENER 2007, Nov., Bucharest, Romania, pp. 9-10.
3. Modelarea și simularea - instrument util în antrenamentul modern al atletului, Olteanu G., Culea G. Conferința Internațională Educația Fizică și Sportul în perspectiva mileniului al II-lea Bacău 28-30 mai 1998, publicat în revista, Studii și cercetări științifice în educație fizică și sport, Bacău 1998, pag. 67 – 75, ISSN 1453-0198.
4. Method of coordinate measuring and numerical computations of determine the analytical equations for complex profiles, Schnakovszky C., Culea G., Zichil V., A 4-a Conferință Națională de Mecanică Fină cu Participare Internațională - București, 27-29 octombrie 1994, Revista română de mecanică fină și optică, pag.226-234.
5. Solar Tracker For Terrestrial Mobile Platforms, Culea George, Procedings OPROTEH 2013, pag 74 ISBN 978-606-527-293-4, Editura Alma Mater Bacau.
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7. Application of Petri nets for the energy management of a residence building, Culea George, Culea Catalina Mihaela, Rotar Dan, The International Conferences 2016, Conference Procedings OPROTEH 2016, pag 59 ISSN 2457-33884, Editura Alma Mater Bacau 2016.

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1. Noi tehnologii de descompunere a apei în oxigen și hidrogen sub acțiunea radiației solare, Sajin T. Crăciun A., Culea George, Culea C. M., Ing. Aniței F., Volumul II

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2. Modelarea sistemelor prin rețele Petri utilizând strategiile de control ale bazei de cunoștințe, Culea George, CNEI 2000, Conferința națională de energetică industrială, Volum, Perspectivele energiei în pragul mileniului III și impactul asupra dezvoltării umane, Bacău, pag. 19-23, ISBN 973 – 99703-4-6.
 3. Structura rețelelor de comunicație în sistemele CIM, Culea George., CNEI 2000, Conferința națională de energetică industrială, Volum Perspectivele energiei în pragul mileniului III și impactul asupra dezvoltării umane, Bacău, pag. 11-15, ISBN 973 – 99703-4-6.
 4. Modelarea și analiza prin rețele Petri a sistemelor de conducere a fluxurilor de operații, Culea G., Livinți P., CNEI 2000, Conferința națională de energetică industrială, Volum, Perspectivele energiei în pragul mileniului III și impactul asupra dezvoltării umane, Bacău, pag. 15-19, ISBN 973 – 99703-4-6.
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 6. Efficiency optimization of the induction motor by the slip control, Mihai, P., Culea. G., Proceedings of the 9-th National Conference on Electrical Drivers, Craiova 8-9 octombrie 1998, 159-164, ISBN 973 – 9346-68-5.
 7. Estimarea analitică a dependenței unor indici de calitate ai celulozei electrotehnice de diferiți factori, Ababei, S., Culea, G., Conferința Națională de Energetică Industrială, Bacău, 30oct-1 nov. 1998, Volum „Tendințe în dezvoltarea sistemelor și echipamentelor energetice”, Editura Plumb, pag 11-15, ISBN 973-9362-16-8
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 9. Rețele de comunicație în sistemele CIM, Culea G., Rotar D., Ababei S., Conferința Națională de Energetică Industrială – Bacău – 30oct-1 nov. 1998, Volum „Tendințe în dezvoltarea sistemelor și echipamentelor energetice”, Editura Plumb, pag. 31-37, ISBN 973-9362-16-8.
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Națională de Energetică Industrială – Bacău – 30oct-1 nov. 1998, Editura Plumb, pag. 174-180, ISBN 973-9362-16-8.

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e) Brevete de invenție - Derwent Innovations Index WOS

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<https://www.webofscience.com/wos/diidxw/full-record/DIidxW:2019458769> Instalație solară pentru descompunerea apei în hidrogen și oxigen, Cerere de brevet de invenție MD nr a2007 0019, data depozit 2007. 01.26, Hotărâre de acordare Nr.5210 din 2007.07.31.
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Medalii

1. Diplomă Medalia de aur, Instalație solară pentru descompunerea apei în hidrogen și oxigen, Sajin Tudor, Crăciun Alexandru, Darciuc Nicolae, Culea George, Culea Cătălina Mihaela, Aniței Florin, INFO INVENT 24-27 noiembrie 2009, Chișinău, Rep. Moldova.
2. Diplomă de excelență și medalia de argint, Instalație solară pentru descompunerea apei în hidrogen și oxigen, Sajin T., Crăciun A., Darciuc N., Culea George, Culea C. M.,

- Aniței F., PROINVENT, Salonul Internațional al Cercetării, Inovării și Inventicii, ediția aVII-a 2009, Cluj-Napoca.
3. Diplomă de excelență cu Medalia de Aur Jubiliară „Iași 600” pentru invențiile Instalație solară pentru descompunerea apei în hidrogen și oxigen, Sajin T., Crăciun A., Darciuc N., Culea George, Culea C. M., Aniței F., 21-24 mai 2008, Iași, Romania, INVENTICA 2008, Salonul Internațional Jubiliar al Cercetării, Invențiilor și Transferului Tehnologic.
 4. Diplomă de excelență pentru proiectul Dezvoltarea unui centru de securitatea cibernetică, GALA Edumanager.ro, București, 21 noiembrie 2019.

f) proiecte de cercetare-dezvoltare-inovare pe baza de contract/grant;

f1) Proiecte de cercetare-dezvoltare-inovare internaționale

1. **Contract internațional:** BLISS -Bacău and Lugano – teaching Informatics for a Sustainable Society 2013-2016. Grant din partea Elvetiei prin intermediul Contributiei Elvetiene pentru Uniunea Europeana extinsa Valoare 328281
Funcția – membru în echipă, universitate parteneră
2. **Contract internațional:** *ECO-DESIGN - An innovative path towards sustainable development*, 2005-2007, Romania (Brasov, Bacau, Tg. Mures), Estonia (Univ. Tehnica Tallinn), Anglia (Univ. Brighton), Grecia (Univ. Tehnica, Atena), Austria (Univ. Tehnica, Viena). nr. contract: 51388-IC-2004-1-RO-ERASMUS-MODUC-4. Valoarea totala : 176.289 euro.
Funcția – membru în echipă, universitate parteneră – Universitatea din Bacău;
3. **Contract internațional:** « Le réseau des CNF et des PAI au service des universités membres » Organisation de sessions de formation de formateurs dans le domaine des technologies de l'information et de la communication, Systèmes d'information: Maîtrise des outils de recherche et d'accès à la documentation scientifique, 2012 AUF, numar contract AUF:BECO-57-26115FE204 /2012
Valoarea totala : 2150 euro.
Funcția – director de proiect
4. **Contract internațional** « L'Atelier Franco-Roumain Pluridisciplinaire sur les Matériaux, les Procédés, l'Environnement et l'Electronique » Apel "Ateliers scientifiques franco-roumains" 2013, Ambasada Franceză, Institut Français de Roumanie (IFR) 157/22.04.2013, 550 Euro
Funcția – director de proiect
5. **Contract internațional** Convention de projet 2013: Soutien au manifestation scientifiques "Colloque francophone Pluridisciplinaire sur les materiaux, l'environnement et l'electronique", AUF, Soutien au manifestation scientifiques 2013, 1000 Euro
Funcția – membru în echipă

6. **Contract internațional** Convention de projet-2014: Soutien au manifestation scientifiques « Conférence internationale de l'énergie industrielle – CIEI 2014, Soutien au manifestation scientifiques 2014
Funcția – membru în echipă

f2) Proiecte de cercetare-dezvoltare-inovare naționale obținute prin competiție

- 1) Proiect „Dezvoltare campus integrat pentru învățământul dual în municipiul Bacău”, e-PNRR ID_08, 2024 – 2027 Valoare totală a proiectului 121.768.593,84 lei.

Funcția – membru în echipă;

- 2) Dezvoltarea competențelor pentru profesiile viitorului prin digitalizare la UVABc, PNRR componenta C15 Educație, Reforma 5, Investiția 16: Digitalizarea universităților și pregătirea acestora pentru profesiile viitorului. Cod proiect: e-PNRR 1417575938. 2022-2025. Valoare totală proiect 17.770.722 lei

Funcția – membru în echipă;

- 3) Tehnologii ecologice și economice pentru prelucrarea tablelor metalice folosite la realizarea blindajelor (ECOBLIND), Programului din PN II - PARTENERIATE ÎN DOMENII PRIORITARE 2014-2017. Valoare contract 728.576.

Funcția – membru în echipă;

- 4) Studiu privind realizarea metodologiei de calcul pentru testarea ansamblului pompă centrifugală-motor-covertizor frecvența TR. I CET CHIMIEI Bacău și ale ansamblului pompă centrifugală-motor-covertizor frecvența TR. II, Contract nr.10 din 01.07.2015, Contract cu agenți economici, Beneficiar S.C. Energofor SRL Bacău, Valoare contract 4000 lei

Funcția – membru în echipă;

- 5) **Contract – CEEX 2005**, nr. 603. din 7.10.2005. **Metode avansate de control pentru eficientizarea producerii și utilizării energiei. 2005-2007.** CO Universitatea Tehnică “Gh. Asachi” Iași, Parteneri de proiect: Universitatea “Dunărea de jos” Galați, Universitatea din Bacău, S. C. Electra s.r.l.

Valoare 1.447.800 RON

Funcția – director de proiect universitate parteneră – Universitatea din Bacău;

- 6) Contract CEEX – 2006 nr. 20/03.10.2005, „**Microplatforma stabilizata pentru echipamente video de supraveghere aeriana**”, Durată 2006-2008, Valoare 60.000 RON.

Funcția – membru în echipă;

- 7) **Contract POSDRU/90/2.1./S/63960 2010-2013** "Convergența pregătirii universitare cu viața activă în domeniul economic", Valoare contract 1500000 lei.

Funcția – membru în echipă;

- 8) **Contract POSDRU/156/1.2/G/138873 (2014-2015)** Programe de studii flexibile și competitive pentru IT&C în Regiunea de Dezvoltare Nord-Est (CompetIT&C)” Beneficiar: Asociația de Dezvoltare Intercomunitară EURONEST; Partener3 : Universitatea Vasile Alecsandri din Bacău 2.171.375

Funcția – expert pe termen scurt

- 9) Contract CNFIS din 2000 runda a 4-a COD 65 - The Modernization And The Extension Of Computers Networks For The Laboratory Computers Networks In Computing Technique College.
Valoare 4000 USD.

Funcția - director de proiect;

- 10) Contract nr. 8/12.03.2007 - Sistem de arhivare a datelor rezultate din măsurători topocadastrale, Executant: Universitatea Bacău, Beneficiar: CN TRANSELECTRICA SA, Sucursala Transport Bacău. Tip contract: licitație publică națională,
Valoare: 38.000 RON

Funcția – membru în echipă;

- 11) Contract nr. 42/25.07.2007 - Realizarea punct de back-up pentru ST Bacau în stația Bacau Sud, Executant: Universitatea Bacău, Beneficiar: CN TRANSELECTRICA SA, Sucursala Transport Bacău. Tip contract: licitație publică națională,
Valoare: 20.000 RON

Funcția – membru în echipă;

- 12) Contract 22 din 1998 cod CNCSU 214 cu tema: Modelarea și simularea echipamentelor stațiilor electrice în vederea prevenirii unor regimuri de avarie –

Funcția - director de proiect ;

- 13) Contract 22 din 1998 cod CNCSU 213 cu tema: Cercetări privind analiza zgomotului și a vibrațiilor în scopul prevenirii funcționării defectuoase a utilajelor,

Funcția – membru în echipă;

- f3) Proiecte de cercetare-dezvoltare-inovare naționale

- 14) Sinergie pentru cercetare la Universitatea „Vasile Alecsandri” din Bacău: informare, colaborare, vizibilitate și management eficient, pentru acordarea la direcțiile programului cadru Orizont Europa (acronim: UBc-Synergy). CNFIS-FDI-2021-0285.
Valoare 380 000 lei.

Funcția – membru în echipă;

- 15) Matematică, Informatică și Biologie - educație și profesii pentru viitor. Rămâi Integrat și Total Motivat (acronim Mate-Info-Bio-RITM) AG 191/SGU/NC/II din 12.09.2019.
Valoare contract 666430 lei.

Funcția – membru în echipă;

- 16) Dezvoltarea unui centru de securitate cibernetică, Proiect finanțat de Ministerul Educației și cercetării, UEFISCDI, valoare 500000 lei (2018-2019).

Funcția - director de proiect ;

- 17) Cercetări privind completarea ghidului de management al pacientului postAVC. Recuperarea și reabilitarea pacientului postAVC prin kinetoterapie și/sau terapie ocupațională în programul multidisciplinar, Contract de cercetare nr. 1/2013. Beneficiar: Clinica Medical Top Bacău, valoare 2000 lei

Funcția – membru în echipă;

- 18) Stresul indus de factorii de mediu la vârsta a III-a. Concluzii privind managementul prehensiunii pe baza celor 30 de variabile mecanice și a modificării cineticii la bolnavii cu afecțiuni de etiologie metabolică și/sau nervoasă și diagnostic de boală reumatică, Contract de cercetare nr. 19/2014. Beneficiar: Clinica Medical Top Bacău, valoare 1500 lei.
Funcția – membru în echipă;
- 19) Stresul indus de factorii de mediu la sportivi de performanță. ECG modificat la sportivi de performanță: Wolff-Parkinson-White și sdr. QT lung, Contract de cercetare nr. 21/2014. Beneficiar: Clinica Dr Dan Chelariu, valoare 1500 lei.
Funcția – membru în echipă;
- 20) Contract nr. 3/2013, Sistem informatic în domeniul energetic, Executant: Universitatea „Vasile Alecsandri” din Bacău, Beneficiar: General Electric SRL (1500 RON)
Funcția - director de proiect;
- 21) Contract nr 76. 26.04.2013, Proiect Colocviul francofon PLUMEE 2013, CJ Bacău. Buget 23220 lei.
Funcția - director de proiect;
- 22) Contract nr. 8 / 2010, 17.12.2010 - Dezvoltarea aplicațiilor în timp real utilizând PLC-uri, Executant: Universitatea Bacău, Beneficiar: COMELECTRO BG.
Funcția - director de proiect;
- 23) Contract de cercetare nr. 13/2005 – Studiu privind soluțiile de automatizare a operațiilor de dozare, ambalare și etichetare. Beneficiar S.C. Pambac S.A.
Funcția - director de proiect;
- 24) Contract de cercetare nr. 113/02.12.2003 - Studiu privind optimizarea consumurilor de abur la S.C.VRANCART S.A. Adjud. Executant: Universitatea din Bacău. Beneficiar: S.C. VRANCART S.A. Adjud.
Funcția – membru în echipă;
- 25) Contract de cercetare nr. 109/16.07.2003 – Studiu privind dispecerizarea consumului de energie electrică pe platforma Mărgineni a S.C. “Pambac” S.A. Bacău. Beneficiar: S.C. PAMBAC S.A. Bacău.
Funcția – membru în echipă;
- 26) Contract nr. 1958/1997- Determinarea regimului deformant la UNIPLAST FOCSANI Beneficiar FRE FOCSANI,
Funcția – membru în echipă;;
- 27) Studiul perturbațiilor în rețeaua electrică de joasă tensiune 1995., Beneficiar F.R.E. Bacău,
Funcția – membru în echipă;
- 28) Determinarea perturbațiilor și efectul acestor perturbații în rețeaua de distribuție a orașului Bacău, 1995, Beneficiar F.R.E. Bacău, Director proiect Gheorghiu Ioan.
Funcția – membru în echipă;

29) Contract nr. 640/1994 - Determinarea regimului deformant la tracțiune electrica și laminorul de la Focșani - Beneficiar FRE FOCSANI,

Funcția – membru în echipă;

30) Contract nr. 1496/1994 - Determinarea regimului deformant la tracțiune electrică Fărăoani - Beneficiar FRE BACAU.

Funcția – membru în echipă;

02.10.2025

Dr. Ing. Mădălina Barbu
09.10.2025

Publicatii

1. 'Performance analysis and comparison of an experimental hybrid PV, PVT and solar thermal system installed in a preschool in Bucharest, Romania' – **Madalina Barbu**, Monica Siroux, George Darie - Energies 2023, Impact Factor 3.252.
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Capitole in carti

1. Capitol in cartea Springer "Challenges and Opportunities of Distributed Renewable Power" intitulat "Challenges and Opportunities of hybrid photovoltaic thermal collectors and their integration into small-scale energy systems for prosumers" - **Madalina Barbu**, Monica Siroux, George Darie – acceptat pentru publicare

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17. A. D. Chitimus, A. Cochiorca, V. Nedeff, N. Barsan, O. Muscalu-Plescan, Studies and research on phragmites australis' (common reed) absorption capacity of heavy metals from the soil in Roman City, Romania, Proceeding of the International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM, 2018, vol. 18, (3.1), pp. 671-678, Proceeding indexat SCOPUS, DOI: 10.5593/sgem2018/3.1/S12.087

18. A. Cochiorca, V. Nedeff, N. Barsan, M. Panainte-Lehadus, E. F. Mosnegutu, Aspects related to water quality assessment in a mining activity area. Case study, mining area Tg. Oghina, Romania, Proceeding of the International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM, 2018, vol. 18, (3.1), pp. 87-94, Proceeding indexat SCOPUS, DOI: 10.5593/sgem2018/3.1/S12.012

19. Chitimus Alexandra Dana, Barsan Narcis, Nedeff Valentin, Mosnegutu Emilian, Muscalu Plescan Oana, Studies and research concerning the influence of liquid pollutants' leaching speed in the soil on the process of cleaning and self-cleaning, 17th International Multidisciplinary Scientific GeoConference SGEM 2017, ISBN: 978-1-5108-4819-1, 2017, vol. No. 17, pp. 859-866, Proceeding indexat SCOPUS, DOI: 10.5593/sgem2017/52/S20.110

20. Emilian Mosnegutu, Valentin Nedeff, Ovidiu Bontas, Narcis Barsan, Dana Chitimus, Dragoş Rusu, Determination of kinematic indices corresponding to a solid particle on a flat oscillating surface, IOP Conf. Series: Materials Science and Engineering 147, 2016, WOS:000390720200151

21. Panainte-Lehadus, M., Olaru, C., Nedeff, V., Olaru, I., Mosnegutu, E., The study behavior of food materials with soft texture subjected to shredding by cutting, 7th International Conference on Advanced Concepts in Mechanical Engineering, ACME 2016; Iasi; Romania, IOP Conference Series: Materials Science and Engineering, Volume 147, Issue 1, 2, September 2016, Article number 012150, Proceeding indexat SCOPUS, DOI: 10.1088/1757-899X/147/1/012150

C3. În reviste indexate BDI

1. Mosnegutu Emilian-Florin, Nedeff Valentin, Barsan Narcis, Sandu Ion, Panainte-Lehadus Mirela, Chitimus Dana, Sandu Ioan Gabriel, Bontas Ovidiu, Rusu Dragoş-Ioan, Topan Gheorghe, Application in Process Industry of the Solid Particles Displacement on a Flat Oscillating Surface, Rev. Chim. vol. 71, no. 6, 2020, p. 42-50, DOI: 10.37358/RC.20.6.8168.

2. Cochiorca Alina, Nedeff Valentin, Barsan Narcis, Sandu Ion, Mosnegutu Emilian, Dana Chitimus Alexandra, Sandu Andrei Victor, Irimescu Oana, Surface Water and Groundwater Quality Evaluation in a Mining Area, Rev. Chim. vol. 71, no. 6, 2020, p. 124-131, DOI: 10.37358/RC.20.6.8177.

3. Barsan Narcis, Capsa Doina, Mosnegutu Emilian, Nedeff Valentin, Sandu Ion, Chitimus Alexandra Dana, Tomozei Claudia, Sandu Andrei Victor, Correlations on the Air Nitrogen Oxides

Pollutant Concentration and Climatic Factors Variations in Bacau City, Rev. Chim. vol. 71, no. 2, 2020, p. 358-364 DOI: 10.37358/RC.20.2.7937.

4. Turcu Mariana, Barsan Narcis, Ianculescu Dan, Nedeff Valentin, Chitimus Dana, Panainte- Lehadus Mirela, Mosnegutu Emilian, Organic flocculants applications in the treatment of municipal sludge, ROMAQUA, vol. 146, no. 8, 2020, p. 29-35, ISSN 1453-6986.

5. Stingu (Palici), C.C., Nedeff, V., Mosnegutu, E.F., Sandu, I., Vasilache, V., Kostrakiewicz-Gierałt, K., Antonovici (Munteanu), M.O., Măsuri specifice de conservare a biodiversității zonelor umede. Euroinvent - International Workshop, Scientific, Technological and Innovative Research in Current European Context, 12th edition, 21 May 2020, Iasi, Topics: Scientific Inquiries through Elective Elaborations, pp. 148-180, 2020, ISSN 2601-4564.

6. Tataru Laurentiu, Nedeff Valentin, Barsan Narcis, Panainte-Lehadus Mirela, Mosnegutu Emilian, Chitimus Dana Fabian Florina, A comparative study between water-gap and air-gap distillation membranes for removal of salts from saline water by desalination method, Journal of Engineering Studies and Research, vol. 24 No. 2, 2018, pp.46-57.

7. Doina Capsa, Valentin Nedeff, Narcis Barsan, Emilian Mosnegutu, Dana Chitimus, Evaluation of meteorological factors influence on benzene accidental pollution. Case study: bacau city 2008, Journal of Engineering Studies and Research, vol. 23 nr. 1, 2017, pp. 12-19.

8. Narcis Barsan, Mariana Turcu, Valentin Nedeff, Emilian, Mosnegutu, Dana Chitimus, Laboratory applications in wastewater treatment by using flocculation process, Journal of Engineering Studies and Research, 2017, vol. 23 nr. 3, pp. 1-11.

9. Laurențiu Tătaru, Valentin Nedeff, Narcis Bârsan, Mirela-Panainte Lehaduș, Dana-Alexandra Chițimuș, The importance of using membranes in seawater, desalination as a result of excessive exploitation of, water sources The Annals of “Dunarea De Jos” University of Galati, Fascicle ix. Metallurgy and Materials Science, 2017, no. 3.

10. Antonina Temea, Mirela Panainte-Lehaduș, Narcis Bârsan, Claudia Tomozei, Valentin Nedeff, Study about the Perception of Producers from Romania Regarding the Ecolabel, The Annals of “Dunarea De Jos” University of Galati, Fascicle ix. Metallurgy and Materials Science, 2017, no.3.

11. Florina Fabian, Valentin Nedeff, Narcis Bârsan, Emilian Moșneguțu, Energy Consumption Assessment in the Water Treatment Process, Bacau City Case Study The Annals of “Dunarea De Jos” University of Galati, Fascicle ix. Metallurgy and Materials Science, 2017, no. 3.

12. Senou Issaka, Narcis Bârsan, Valentin Nedeff, Some N Antoine, Nacro H Bismarck Evaluation of the groundwater quality in a closed industrial landfill, Jurnal Journal of Engineering Studies and Research, 2016, vol. 22 nr. 1, pp. 72-80.

13. Antonina Temea, Valentin Nedeff, Claudio Comoglio, Serena Botta, Mirela Panainte Lehaduș, A systematic study regarding the importance of obtaining ecolabel in Romania, Journal of Engineering Studies and Research, ISSN 2068-7559, 2016, vol. 22, no. 3, pp.66-70.

14. Oana Tirtoaca (Irimia), Valentin Nedeff, Mirela Panainte Lehaduș, Claudia Tomozei, Efficiency of water filtering process depending on the filter layer porosity and flow – a mathematical model, Journal of Engineering Studies and Research, ISSN 2068-7559, 2016, vol. 22, no. 4, pp.53-60.

15. Alisa Moșneaga, Valentin Nedeff, Petru Lozovanu, Influence of acoustic frequency on bean germination and growth process, Journal of Engineering Studies and Research, ISSN 2068-7559, 2016, vol. 22, no. 2, pp. 33-38.
16. Oana Irimia, Valentin Nedeff, Mirela Panainte Lehaduș, Claudia Tomozei, Experimental study concerning the distribution of granular particle shape from a filter layer, Journal of Engineering Studies and Research, ISSN 2068-7559, 2016, vol. 22, no. 1, pp. 64-71;
17. Emilian Mosnegutu, Valentin Nedeff, Mirela Panainte-Lehadus, Narcis Bârsan, Dana Chitimus, Dragos Rusu, Determination of the real values of kinematic index corresponding to the mechanical separation process, Journal of Engineering Studies and Research, vol. 22 nr. 2, 2016, pp. 39-48.
18. Luminita Bibire, Mihaela-Beatrice Barbieru, Narcis Barsan, Adrian Stelian Ghenadi, Teoretical evaluation of anthropogenic risks in Tazlau river basin, Jurnal Journal of Engineering Studies and Research, 2016, vol. 22 nr. 2, pp. 15-25.
19. Mihai-Cosmin Belciu, Alexandra-Dana Chitimus, Valentin Nedeff, Narcis Bârsan, Rusu DragosThe production capacity of leachate collected from Piatra Neamt landfill, Journal of Engineering Studies and Research, 2016, vol. 22 nr. 1, pp. 15-23.
20. Sifolo S. Coulibaly, Jérôme E. Tondoh, Kouadio I. Kouassi, N. Barsan, V. Nedeff, Bi I.A. ZoroVermicomposts improve yields and seeds quality of Lagenaria siceraria in Côte d'Ivoire, International Journal of Agronomy and Agricultural Research, 2016, vol. 8, nr. 3, pp.26-37.
21. Doina Capșa, Narcis Bârsan, Valentin Nedeff, Emilian Moșneguțu, Dana Chițimșu, Evaluation of the ammonia air pollution and climatic factors interactions, case study 2008 Bacau City Romania, Journal of Engineering Studies and Research, 2016, vol. 22 nr. 1, pp. 15-23.
22. Senou Issaka, Narcis Bârsan, Valentin Nedeff, Some N Antoine, Nacro H Bismarck, Evaluation of the groundwater quality in a closed industrial landfill, Journal of Engineering Studies and Research, 2016, vol. 22 nr. 1, pp. 72-80.
23. Laurențiu Tataru, Valentin Nedeff, Narcis Barsan, Mirela Panainte-Lehadus, Emilian Mosnegutu, Dana-Alexandra Chitimus, Studies on the application of hollow fiber membranes in the field of ultrafiltration, Journal of Engineering Studies and Research, 2016, vol. 22 nr. 4, pp. 42-53.
24. Florin Marian Nedeff, Marcel Agop, Emilian Florin Mosnegutu, Narcis Barsan, Evaluation of the reverberation time improvement in a speaking hall, Jurnal Journal of Engineering Studies and Research, 2016, vol. 22 nr. 2, pp. 49-54.
25. Florina Fabian, Valentin Nedeff, Mirela Panainte-Lehadus, Narcis Bârsan, Oana Irimia, Silvia Racovita, Environmental impact of water treatment process. A systematic review of evaluation method, Jurnal Journal of Engineering Studies and Research, 2016, vol. 22 nr. 2, pp. 34-39.

D. Proiecte câștigate în calitate de director

1. POCU/90/6.13/6.14/108612/05.07.2018 (49063/05.07.2018), Axa prioritară 6: Educație și competențe, Obiectivul tematic 10: Efectuarea de investiții în domeniul educației, al formării și al formării profesionale în vederea dobândirii de competențe și a învățării pe tot parcursul vieții. Prioritatea de investiții 10.iv: Îmbunătățirea utilității sistemelor de educație și formare pentru piața muncii, facilitarea trecerii de la educație la muncă și consolidarea sistemelor de educație și formare

profesională și a calității lor, inclusiv prin mecanisme pentru anticiparea competențelor, adaptarea programelor de învățământ și crearea și dezvoltarea de sisteme de învățare bazate pe muncă, inclusiv sisteme de învățare duale și de ucenicie. Obiectiv compozit: OS. 6.13 și 6.14. Titlu proiect: “Parteneriat pentru stagii de practică - Primul pas pentru o carieră în industria alimentară”, Buget total: 621.259,51, buget UVAB: 369.247,72, buget partener: 252.011,79, membru coordonator 2018-2020;

2. ”Programe de studii flexibile și competitive pentru IT&C în Regiunea de Dezvoltare Nord-Est (CompetIT&C)”, POSDRU/156/1.2/G/ 138873, Nedeff Valentin-director proiect, 2014-2015.

E. Brevete acordate în întreaga activitate

1. Gângu Vergil, Cojocar Iosif, Silviu Virgil, Gârcineanu Viorica, Voicu Emil, **Nedeff Valentin**, Petrescu Vily, “Combină tractată pentru recoltat furaje”, Medalia de aur la Salonul Internațional al Invențiilor, Cercetării Științifice și Transferului Tehnologic, ediția a XIII-a - Ecoinvent, 2007, Brevet de invenție nr. 120941 B1;
2. Gângu Vergil, Cojocar Iosif, Silviu Virgil, Gârcineanu Viorica, Voicu Emil, **Nedeff Valentin**, Petrescu Vily, “Combină tractată pentru recoltat furaje”, ”Hauled Combine For Harvesting Fooder, 2006, Brevet de invenție nr. 120941 B1, Clasificarea internațională: A01D41/04;
3. Petrescu Vily, Marian Gabriela, **Nedeff Valentin**, Silviu Virgil, Gârcineanu Viorica, Chiriță Eugeniu, “Marcatori cu dispozitiv de acționare hidraulică”, 2006, Brevet de invenție nr. 120740 B1;
4. Eșanu Gheorghe Pavel, **Nedeff Valentin**, “Aparat de distribuție pentru mașinile de semănat de precizie”, 1998, Brevet de invenție nr. 113921 B;
5. Stan Gheorghe, Pal Anton, **Nedeff Valentin**, Ciobanu Romeo Ciprian, Ungureanu Viorel, Topliceanu Liliana, Livinți Petru, Schnakovszkz Carol, Robot de jucat șah, 2007, Brevet de invenție nr. 125583;
6. **Nedeff Valentin**, Ciobanu Domnica, Macoveanu Matei, Chiriac Alexandru, Rusu Lăcrămioara, Simion Andrei Ionuț, Procedeu de obținere prin biodegradare anaerobă a unui biofertilizant organic și produsul obținut, nr. 129161/2017;
7. **Nedeff Valentin**, Grosu Luminița, Chiriac Alexandru, Ciobanu Domnica, Procedeu aerob de biodegradare pentru obținerea unui îngrășământ organic mineralizant și produsul realizat, nr. 129230/2017;
8. **Nedeff Valentin**, Ciobanu Domnica, Macoveanu Matei, Chiriac Alexandru, Rusu Lăcrămioara, Simion Andrei Ionuț, Procedeu de obținere a unui biofertilizator organic și produsul obținut, nr. 129229/2017;

F - Alte activități:

F1. Participare la programe de mobilitate internațional

- Documentare și predare cursuri Universitatea Politehnică din Torino, Italia, 2014, Program ERASMUS, colaborare pentru dezvoltarea unui program comun de master, pentru începerea doctoratului în cotutelă în domeniul Ingineria mediului, extinderea programului Erasmus la L, M, D și începerea stagiilor de cercetare postdoctorale;
- Documentare și predare cursuri Universitatea din Ruse, Bulgaria, 2014, Program ERASMUS, colaborare pentru dezvoltarea unor programe universitare de licență, master și doctorat;

- Documentare și predare cursuri Universitatea Politehnică din Torino, Italia, 2015, Program ERASMUS, colaborare pentru dezvoltarea unui program comun de master, pentru începerea doctoratului în cotutelă în domeniul Ingineria mediului, extinderea programului Erasmus la L, M, D și începerea stagiilor de cercetare postdoctorale;
- Documentare și predare cursuri Universitatea din Ruse, Bulgaria, 2015, Program ERASMUS, colaborare pentru dezvoltarea unor programe universitare de licență, master și doctorat;
- Documentare și predare cursuri Universitatea din Ruse, Bulgaria, 2016, Program ERASMUS, colaborare pentru dezvoltarea unor programe universitare de licență, master și doctorat;
- Documentare Elveția, Universitatea din Lugano, 2014, 2015;
- Documentare Spania, Universitatea din Cadiz, 2015, 2016; 2017, 2018.

F4. Susținere de prelegeri în străinătate pentru o perioadă de minim 1 saptamana (profesor invitat)

F5. Participare la programe de mobilitate internaționala

F6. a. Calitatea de membru în comitetele științifice ale publicațiilor și conferințelor internaționale;

- Membru în comitetul științific al XV National Conference I International Conference Quality System Conditions for Successful Business and Competitiveness November 2014 Krusevac, Serbia;
- În comitetul de organizare și membru în comitetul științific al Conferinței Internaționale de Științe Aplicate. Chimie și Inginerie Chimică – CISA 2014, Bacău;
- Președintele Comitetului de organizare și în comitetul științific al Second International Conference „Natural and Antropic Risks ICNAR2014” din Bacău, 04-07 iunie 2014;
- Membru în comitetul științific la a 2-a Conferință Națională de Echipamente pentru Procese Industriale, București, mai 2014;
- Chairman și membru în comitetul științific al 4th Internațional Conference ”Economics and Management - Based on New Technologies” EMoNT 2014, June, Vrnjačka Banja, Serbia;
- Membru în comitetul științific a 6th International Conference „Advanced Concepts in Mechanical Engineering” ACME 2014, Technical University ”Gh. Asachi” of Iași, 12-13 iunie 2014;
- Vice-chairman și membru în comitetul științific al Conferinței Internaționale „Research and Development in Mechanical Industry” RaDMI, 2014, September, Topola, Serbia;
- Membru în comitetul științific și membru în comitetului de organizare a celei de-a XI-a Conferință internațională ”Constructive and Technological Design Optimization in the Machines Building Field” OPROTEH 2015, Universitatea „Vasile Alecsandri” din Bacău;
- Vice-chairman și membru în comitetul științific al Conferinței Internaționale „Research and Development in Mechanical Industry” RaDMI, 2015, September, Petrovac, Montenegro;
- Chairman și membru în comitetul științific al 4th Internațional Conference ”Economics and Management - Based on New Technologies” EMoNT 2015, June, Vrnjačka Banja, Serbia;
- Membru în comitetul științific The 7th International Conference „Advanced Concepts in Mechanical Engineering” ACME 2016, Technical University ”Gh. Asachi” of Iași, 09-10 iunie 2016;
- Membru în comitetul științific The 7th International Conference LEMIMA 2015, Belgrade, Serbia;

- Vice-chairman și membru în comitetul științific al Conferinței Internaționale „Research and Development in Mechanical Industry” RaDMI, 2016, September, Belgrade, Serbia;
- Membru în comitetul științific al Conferinței Internaționale „ICQME2011 (Quality, Management, Environment, Education, Engineering” 2016, Petrovac, Montenegro;
- Membru în comitetul științific și membru în comitetului de organizare a celei de-a XII-a Conferință internațională ”Constructive and Technological Design Optimization in the Machines Building Field” OPROTEH 2016, Universitatea „Vasile Alecsandri” din Bacău;
- Membru în comitetul științific și de organizare a Le cinquieme colloque francophone PLUMEE 2017, Bacău, România, 19-21 Octobre;
- Membru în comitetul științific la SYMPOSIUM „ECOLOGY AND PROTECTION OF ECOSYSTEMS” THE XIITH EDITION, 2017, Bacău, România, 2-4 NOVEMBER;
- Member of Program Committee and reviewer in the peer review process for VI International Symposium NEW HORIZONS 2017 of transport and communications 17-18 November 2017;
- Vice-chairman și membru în comitetul științific al Conferinței Internaționale „Research and Development in Mechanical Industry” RaDMI, 2017, September, Slatibor, Serbia;
- Membru în comitetul științific și membru în comitetului de organizare a celei de-a XIII-a Conferință internațională ”Constructive and Technological Design Optimization in the Machines Building Field” OPROTEH 2018, Universitatea „Vasile Alecsandri” din Bacău;
- În comitetul de organizare și în comitetul științific al Colocviului franco-român de chimie aplicată – COFrRoCA, 2018;
- Membru în comitetul științific la 8th International Conference „Advanced Concepts in Mechanical Engineering - ACME”, Technical University ”Gh. Asachi” of Iași, 2018;
- Membru în comitetul științific și membru în comitetului de organizare a celei de-a XI-a International Conference of Power Engineering – CIEI 2018, Universitatea „Vasile Alecsandri” din Bacău;
- Membru în comitetul științific la 20th NATIONAL AND 6TH INTERNATIONAL CONFERENCE QUALITY SYSTEM CONDITION FOR SUCCESFULL BUSSINESS AND COMPETITIVENESS, 28-30 November 2018, Krusevac, Serbia;
- Vice-chairman și membru în comitetul științific al Conferinței Internaționale „Research and Development in Mechanical Industry” RaDMI, 2018, September, Vrnjacka Banja, Serbia;

b. calitatea de membru în board-urile asociațiilor profesionale internaționale;

- Evaluator expert de mediu 2018;
- Evaluator „QS” pentru Universitatea Politehnică din Torino, Italia 2015, 2018
- Membru în Asociația Română de Mediu,
- Membru în Societatea Națională de Știință și Ingineria Mediului
- Membru de onoare al Camerei de Comerț și Industrii Bacău, 2014;
- Doctor Honoris Causa a Universității ”Angel Kanchev” din Ruse - Bulgaria (ceremonia din 11 martie 2014);
- Membru asociat al Academiei de Științe Agricole și Silvicultură „Gheorghe Ionescu Șişeşti” București România, între anii 2010-2017;
- Membru corespondent al Academiei de Științe Agricole și Silvicultură „Gheorghe Ionescu Șişeşti”

București România, ales în anul 2017;

c. calitatea de invitat în cadrul conferințelor sau grupurilor de experți desfășurate în străinătate;

d. calitatea de membru al unor comisii de susținere a unor teze de doctorat la universități din străinătate sau în cotutelă cu o universitate din străinătate;

1. Universitatea Politehnică din Torino, Italia – 1 dr.;
2. Universitatea din Cadiz, Spania – 2 dr..

e. alte realizări relevante cu vizibilitate internațională.

1. Editor șef și membru în comitetul științific al revistei Journal of Engineering Studies and Research, ISSN 2068-7559, Universitatea „Vasile Alecsandri” din Bacău, Indexată în: ProQuest CSA, VINITI, DOAJ, EBSCO, Academic Journals Database, DRJI, Index Copernicus (ICV/2011 = 6.16), Google Academic, Publons, ResearchGate, CiteFactor, ERIH PLUS; ROOTINDEXING, IJIF, ResearchBib, WordCat, DIIF, Electronic Journals Library. The journal was also recognized and rated by the Romanian National Council for Scientific Research in Higher Education;
2. Membru în comitetul științific al Scientific Bulletin, Seria C, Fascicle Mechanics, Tribology, Machine Manufacturing Technology, ISSN: 1224-3264, Faculty of Engineering Baia Mare, Technical University of Cluj-Napoca,
3. Membru în comitetul științific al revistei Metalurgia Internațional, revista ISI, ISSN 1582-2214, din anul 2008 până în anul 2014;
4. Membru al Consiliului Academic al revistei „Studia Universitatis Moldaviae. Seria Științe Exacte și Economice, Universitatea de Stat din Republica Moldova, ISSN 2345-1033;
5. Member in Editorial Advisory Board: Environmental Engineering and Management Journal, ”Gh. Asachi” Technical University of Iasi, ISSN 1582-9596, ISI journal, from February 2009;
6. Membru în comitetul științific al revistei Studii și cercetări științifice. Chimie și inginerie chimică. Biotehnologii. Industrie alimentară, revista ISI, ISSN 1582-540X, din anul 2015;
7. Membru în comitetul științific al revistei International Journal of Conservation Science, revista ISI, ISSN 2067-533X, din anul 2018;
8. Coordonator bursa postdoctorala «Eugen Ionescu». Tema: Valorificarea deșeurilor animale prin compostare, Dr. COULIBALY Sifolo S. Agro-écologiste, Enseignant-Chercheur, Université Péléforo Gon Coulibaly de Korhogo (Côte d'Ivoire), Président de l'ONG CEABD (Collectif des Ecologistes pour l'Agriculture Biologique et le Développement Durable), martie – iulie 2015;
9. Coordonator bursa postdoctorala «Eugen Ionescu». SAWAGODO Joseph, Tema: Recherches sur le potentiel énergétique des déchets, Burkina Faso 2016;
10. Coordonator bursa postdoctorala «Eugen Ionescu». SENOU Issaka, Tema: Problématique environnementale des sites industriels miniers: la phytoextraction des polluants métalliques comme procédé de restauration des sols contaminés, Burkina Faso 2016;
11. Coordonator bursa postdoctorala «Eugen Ionescu». NDJEUMI Chrisdel Chancelice, Tema: Studii cu privire la epurarea apelor uzate și tratarea nămolurilor. Université de Maroua, Cameroun, 2017;

12. Mangenda Holy HOLENU – Tema: ``Gestion des déchets urbains``, Université Kinshasa, Republica Democratică Congo, bursa doctorala «Eugen Ionescu», febr. - iulie 2014;
13. Ghizlane Bouabid - Tema: „Formulation d'un combustible de substitution solide à base de déchets industriels”, Université Hassan II, Maroc, bursa doctorala «Eugen Ionescu», martie - mai 2014;
14. DERMOUCHI Aida – Tema: Aplicarea electrocoagularii în epurarea apelor uzate, PhD student, laboratory of LIPE (Laboratory of the engineering and processes of environment), Faculty of Pharmaceutical Engineering Process, University of Constantine 3, Constantine, Algeria, martie – iulie 2015;
15. NIKIEMA Mahamadi, Tema: Valorisation des déchets municipaux par la voie de la méthanisation, Burkina Faso, 2016;
16. NIKIEMA Mahamadi, Tema: Studii cu privire la optimizarea producerii biogazului din deșeuri, Université de Ouagadougou, Burkina Faso, 2017;
17. WANDA Christian, Tema: Studii cu privire la posibilitățile de folosire agricolă a nămolurilor și deșeurilor organice, Université de Yaoundé I, Cameroun, 2017.
18. EBLIN Sampah Georges, Tema: Studii cu privire la calitatea apelor, Université Jean Lorougnon, Côte d'Ivoire.
19. FILALI Hanen, Tema: Posibilități de valorificare a apelor uzate, Universitatea din Cartagina, Tunisia.
20. BADANARO Fègbawè, Tema: Evaluarea toxicității în cazul insectelor destinate consumului, Universitatea din Lomé, Togo.

Data:

Semnătura:

Prof.univ.dr.ing. Valentin NEDEFF

14.10.2025

LISTA LUCRĂRILOR PUBLICATE

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- [3] Factori de influenta, modelarea fenomenelor specifice si optimizarea procesului de micro/milli ambutisare a tablelor metalice cu grosimi sub 0.2mm, PNII PCE 178, 2012-2014 – **membru în colectivul de cercetare.**
- [4] Modelarea pe baza analizei experimentale și prin simulare a interacțiunii dintre procesele fizice de generare a tensiunilor reziduale și revenire elastică la deformarea plastică a tablelor metalice, Program PNII – IDEI 595/2008 - 2011 – **membru în colectivul de cercetare**
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- [16] Studiul experimental si prin simulare privind factorii de influenta ai preciziei de prelucrare la ambutisarea pieselor cu pereți circulari, Contract de cercetare nr. 11/2005 cu S.C. Mecanica Ceahlău S.A. Piatra Neamț, 2005 RON – **membru in colectivul de cercetare**
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14.10.2025

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B. Cărți/manuale/ monografii/ capitole în cărți de specialitate

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Data,

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Nume Prenume: **Raveica Crinel**
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Departamentul: **de Ingineria și Managementul Sistemelor Industriale**

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Teza de doctorat în Inginerie Industrială: Cercetări teoretice și experimentale privind prelucrarea prin procedeul de deformato-frezare Instituția Universitatea „Politehnica” București

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1. Prelucrarea și analiza datelor în Excel, Ionel Raveica format electronic 2019, 234p <http://www.easyclass.com/sections/49817/updates>
2. Controlul proceselor de prelucrare folosind aplicații software specifice, Ionel Raveica format electronic 2019 , 205p <http://www.easyclass.com/sections/49926/updates>
3. Fabricarea pieselor din mase plastice și composite- îndrumar de laborator format electronic 2021
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5. Infografica note de curs modul Onshape 2022 format electronic Teams
6. **DINAMICA SISTEMELOR MECANICE PENTRU MECATRONICĂ. CURS ȘI APLICAȚII** editura Alma Mater ISBN 978-606-527-698-7, 236 pag

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Ionel Crinel Raveica , Ionel Olaru, Eugen Herghelegiu, Nicolae Catalin Tampu, Maria-Crina Radu , Bogdan Alexandru Chirita, Carol Schnakovszky and Vlad Andrei Ciubotariu The Impact of Digitalization on Industrial Engineering Students' Training from the Perspective of Their Insertion in the Labor Market in a Sustainable Economy: A Students' Opinions Survey [*Sustainability*](#), 2024, vol. 16, issue 17, 1-24
2. Marin Alexandru, Ionel Crinel Raveica, Considerations on Quality Parameters at Deformation and Splitting Process of Interior and Exterior Surfaces Advanced Materials Research, Vol. 1036, pp. 399-404, 2014 (Volume 1036) Modern Technologies in Industrial Engineering II, <https://doi.org/10.4028/www.scientific.net/AMR.1036.399>
3. Using AutoCAD Application as Instrument for Biomechanical Assessment of Orthopedic Impairments Ionel Crinel Raveica, Cristina Mohora, Gabriela Raveica, Andra Pena Applied Mechanics and Materials (Volume 436) DOI 10.4028/www.scientific.net/AMM.436.277

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

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1. Raveica I, Raveica G Virtual reality applied in stroke rehabilitation OPROTEH Sesiunea 1a optimization of manufacturing processes and systems & computer aided design and manufacturing 2018
2. Raveica Gabriela, Raveica I. Crinel Study regarding the role of occupational therapy in public health education program planning 8th World Conference on Learning, Teaching and Educational Leadership (WCLTA-2017), Universidade Aberta, Lisbon, Portugal, 2017
3. Tabacaru D.C., Raveica I. scientific study research-Chemistry & Chemical Engineering, Biotechnology, Food industry ISSN 1582-541 2017 pag 254-259
4. Raveica Gabriela, Raveica I. Crinel, Rață Marinela, Rață Assistive technology aspects in Romanian schools as an intervention to promote the inclusive education for children with physical limitations 8th World Conference on Learning, Teaching and Educational Leadership (WCLTA-2017), Universidade Aberta, Lisbon, Portugal, 2017

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3. Ionel Crinel Raveica, Cristina Mohora, Gabriela Raveica, Andra Pena Using AutoCAD Application as Instrument for Biomechanical Assessment of Orthopedic Impairments Applied Mechanics and Materials (Volume 436) DOI 10.4028/www.scientific.net/AMM.436.277
4. Eugen Herghelegiu, Carol Shnakovszky Miroslav Radovanovic, Crinel Ionel Raveica COMPARATIVE STUDY ON THE DIMENSIONAL ACCURACY AND SURFACE QUALITY OF PLATES CUT Raveica Ionel, Herghelegiu Eugen Radovanovic, Crinel Ionel Raveica ModTech International Conference Modern Technologies, Quality and Innovation 24-26 May 2012, Sinaia, Romania vol 1. Pag433- 436
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6. Raveica Ionel STUDY ON ENVIRONMENTAL ASSESSMENT OF RECYCLING IN ROMANIA ACCORDING WITH LIFE CYCLE ANALYSIS The 16th International Conference of Constructive Design and Technological Optimization in Machine Building Field OPROTEH 2021 ISSN 2457 – 3388
7. Raveica Ionel, Herghelegiu Eugen MODELLING AND MULTI-OBJECTIVE OPTIMIZATION OF SURFACE ROUGHNESS AND TAPER ANGLE IN ABRASIVE WATER JET MACHINING OF ALUMINUM ALLOY The 16th International Conference of Constructive Design and Technological Optimization in Machine Building Field OPROTEH 2021 ISSN 2457 – 3388
8. Raveica I, Raveica G Consideration on implementation process in educational activity of cloud based CAD applications Study case The 17th International Conference of Constructive Design and Technological Optimization in Machine Building Field OPROTEH 2022
9. Raveica I, Raveica G Active Learning in Engineering Education. Experiences in Covid 19 Pandemy The 17th International Conference of Constructive Design and Technological Optimization in Machine Building Field OPROTEH 2022
10. Raveica G, Raveica I Beneficiile formularii si utilizarii obiectivelor de invatare in pregatirea studentilor. International Conferences Physical Education Sport and Health Pitesti 2022
11. Raveica I, Raveica G MODELLING AND MULTI-OBJECTIVE OPTIMIZATION OF SURFACE ROUGHNESS AND TAPER ANGLE IN ABRASIVE WATER JET MACHINING OF ALUMINUM ALLOY Oproteh 2021
12. Raveica I STUDY ON ENVIRONMENTAL ASSESSMENT OF RECYCLING IN ROMANIA ACCORDING WITH LIFE CYCLE ANALYSIS Oproteh 2021
13. Raveica G., Raveica C. Study regarding the role of occupational therapy in public health education program planning 8th World Conference on Learning, Teaching and Educational Leadership (WCLTA-2017) 26-28 October 2017 Universidade Aberta, Lisbon, Portugal www.wc-lta.org pag 24
14. Raveica G, Raveica C s.a Assistive technology aspects in Romanian schools as an intervention to promote the inclusive education for children with physical limitations 8th World Conference on Learning, Teaching and Educational Leadership (WCLTA-2017) 26-28 October 2017 Universidade Aberta, Lisbon, Portugal www.wc-lta.org pag 25

Contract cercetare

Contract nr.3/2021, S.C. GOSPOMAS S.A Studiu și cercetare privind optimizarea tehnologiei fabricației inelului ceramic pentru etanșări mecanice industriale și eficiența înlocuirii inelului metalic de etanșare cu acesta. 6000lei
POSDRU/86/1.2/S/63545 TEORO - Terapia Ocupațională și Ingineria aplicată în echipamente pentru reabilitare și tehnologie asistivă Responsabil TIC 2010-2014 98000Euro

E. Brevete obținute în întreaga activitate

1. DISPOZITIV DE RELIEFARE PROGRESIVĂ (11) 126752 A0 (51) B21D 37/00 (2006.01) (21) a 2011 00508 (22) 25.05.2011 (41)

Data:

10 10 2025

Semnătura:



LISTA LUCRĂRILOR ELABORATE ȘI PUBLICATE

Lista celor 10 lucrări considerate reprezentative	
1	Ciubotariu, V.A. ; Grigoras, C.C.; Zichil, V.; Chirita, B.A., <i>Using the AIDA Method in the Design of New Elements for the Photovoltaic Mounting Structures</i> . Machines, ISSN: 2075-1702, 2024 , 12 (3), 211, F.I. 2,6
2	Grigoraș, C.C.; Zichil, V.; Ciubotariu, V.A. ; Cosa, S.M. <i>Machine Learning, Mechatronics, and Stretch Forming: A History of Innovation in Manufacturing Engineering</i> . Machines, ISSN: 2075-1702, 2024 , 12 (3), 180, FI = 2,6
3	Ciubotariu, V.A. ; Grigoraș, C.C.; Zichil, V.; Rosu, A.M., <i>An adaptive algorithm and additively manufactured punch used to form aluminium sheet metal parts</i> . Materials, ISSN 1996-1944, 2023 , 16 (10), 3704, FI = 3,4
4	Ciubotariu, V.A. ; Radu, M.C.; Herghelegiu, E.; Zichil, V.; Grigoras, C.C.; Nechita, E. <i>Structural and Behaviour Optimization of Tubular Structures Made of Tailor Welded Blanks by Applying Taguchi and Genetic Algorithms Methods</i> . Applied Sciences ISSN 2076-3417, 2022 , 12 (13), 6794, F.I. 2,838
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6	GRIGORAȘ C.C-tin., ZICHIL V., CHIRIȚĂ B.AL., Ciubotariu V.A. , <i>Adaptive stretch-forming process: A computer vision and statistical analysis approach</i> , Machines ISSN: 2075-1702, 2021 , vol.9, nr.12, 357, F.I. 2,428
7	Dobreci L.D., Zichil V., Nechita E., Grigoraș C.C-Tin., Ciubotariu V.A. , <i>Extracorporeal Shockwave Applicator for Spinal Treatment. A new design approach</i> , Applied Sciences ISSN 2076-3417, 2020 , vol.10, nr.23, 8710, F.I. 2,474
8	Radu M.C., Schnakovszky C., Herghelegiu E., Ciubotariu V.A. , Cristea I., <i>The Impact of the COVID-19 Pandemic on the Quality of Educational Process: A Student Survey</i> , Int. J. Environ. Res. Public Health, ISSN: 1660-4601, 2020 , vol.17, nr.21, F.I. 2,849
9	Vlad A. Ciubotariu , Aurelian Albuț, 2014 , <i>Impact and energy absorption of twb thin-walled structures with polygonal cross-sections</i> , Advanced Materials Research, vol.1036, pg.686-691, ISBN 978-3-03835-255-6
10	Vlad A. Ciubotariu , Gheorghe BRABIE “ <i>Weld line behaviour during uniaxial tensile testing of tailor welded blanks</i> ”, Archives of Civil and Mechanical Engineering, vol.11, no.4, 2011 , pg.811-824, ISSN 1644-9665, revistă cotate Thomson Scientific - ISI Web of Knowledge

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Vlad A. CIUBOTARIU, 2011. “*Contribuții teoretice și experimentale privind influența cordonului de sudură asupra caracteristicilor de calitate și rezistență ale componentelor realizate prin ambutisarea tablelor metalice sudate*”, Coordonator științific, Prof.dr.ing. Gheorghe BRABIE, Universitatea „Vasile ALECSANDRI” din Bacău;

- susținere publică la Universitatea „Vasile ALECSANDRI” din Bacău, în 14.06.2011;
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2.	Vlad A. CIUBOTARIU, 2017. <i>Îndrumar de proiectare CAD/CAE/CAM a sistemelor mecanice industriale</i> , Editura Alma Mater, Bacău, ISBN 978-606-527-562-1
3.	Valentin ZICHIL, Vlad A. CIUBOTARIU, 2018. <i>Rezolvarea de probleme utilizând metoda elementelor finite - Siemens NX Nastran</i> , Editura Alma Mater, Bacău, ISBN 978-606-527-620-8
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1	Zichil, V.; Grigoras C.C.; Ciubotariu, V.A., <i>Induced Scratches and Fatigue in Aircraft-Grade Aluminium Alloys. A Statistical Analysis on the UTS and Elongation at Break</i> , Machines, ISSN: 2075-1702, 2024 , https://doi.org/10.20944/preprints202408.1962.v1 Revistă indexată ISI conform https://www.mdpi.com/journal/machines ; F.I. 2.2
2	Raveica, I.C.; Olaru, I.; Herghelegiu, E.; Tampu, C.N.; Radu, C.M.; Chirita, B.A.; Schnakovszky, C.; Ciubotariu, V.A., <i>The Impact of Digitalization on Industrial Engineering Students' Training from the Perspective of Their Insertion in the Labor Market in a Sustainable Economy: A Students' Opinions Survey</i> , Sustainability, ISSN: 2071-1050, 2024 , 16 (17), 7499, https://doi.org/10.3390/su16177499 Revistă indexată ISI conform https://www.mdpi.com/journal/sustainability ; F.I. 3.3
3	Bibire, L.; Chitimus, A.D.; Ciubotariu, V.A., <i>Design of Mixing Device Shafts Based on a Proposed Calculation Method Supported by Finite Element Method Analysis</i> , Machines, ISSN: 2075-1702, 2024 , 12 (7), 479, https://doi.org/10.3390/machines12070479 WOS:001277508400001 Revistă indexată ISI conform https://www.mdpi.com/journal/machines ; F.I. 2.2
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5	Grigoraș, C.C.; Zichil, V.; Ciubotariu, V.A. ; Cosa, S.M., <i>Machine Learning, Mechatronics, and Stretch Forming: A History of Innovation in Manufacturing Engineering</i> . Machines, ISSN: 2075-1702, 2024 , 12 (3), 180 https://doi.org/10.3390/machines12030180 WOS:001192621400001 Revistă indexată ISI conform https://www.mdpi.com/journal/machines ; F.I. 2.6
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7	Ciubotariu, V.A. ; Radu, M.C.; Herghelegiu, E.; Zichil, V.; Grigoras, C.C.; Nechita, E. <i>Structural and Behaviour Optimization of Tubular Structures Made of Tailor Welded Blanks by Applying Taguchi and Genetic Algorithms Methods</i> . Applied Sciences ISSN 2076-3417, 2022 , 12 (13), 6794 - https://doi.org/10.3390/app12136794 WOS:000825558800001 Revistă indexată ISI conform https://www.mdpi.com/journal/applsci ; F.I. 2,7
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10	DOBRECI L.D., ZICHIL V., NECHITA E., GRIGORAȘ C.C-TIN., CIUBOTARIU V.A. 2020 , <i>Extracorporeal Shockwave Applicator for Spinal Treatment. A new design approach</i> , Applied Sciences ISSN 2076-3417, 10 (23), 8710 https://doi.org/10.3390/app10238710 WOS:000597741100001 Revistă indexată ISI conform https://www.mdpi.com/journal/applsci ; F.I. 2.6
11	RADU M.C., SCHNAKOVSKY C., HERGHELEGIU E., CIUBOTARIU V.A. , CRISTEA I., 2020 , <i>The Impact of the COVID-19 Pandemic on the Quality of Educational Process: A Student Survey</i> , Int. J. Environ. Res. Public Health, ISSN: 1660-4601, 17 (21) - https://doi.org/10.3390/ijerph17217770 WOS:000588980300001 Revistă indexată ISI conform https://www.mdpi.com/journal/ijerph ; F.I. 2,849
12	DACĂLU M.E., NEDEFF F., CIUBOTARIU V. , LOPEZ-RAMIREZ J.A., SANDU I., 2019 , <i>Calculation of the Cross Section Active Area for a Polymeric Spiral Wound Reverse Osmosis Membrane</i> , Materiale Plastice ISSN: 0025-5289, 2019, 56 (2), 426-428 https://doi.org/10.37358/MP.19.2.5200 WOS:000476641000027 Revistă indexată ISI conform https://mjl.clarivate.com/search-results ; F.I. 1.517 conform https://www.revmaterialeplastice.ro/RCIndexing.asp
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15	Gheorghe BRABIE, Bogdan CHIRIȚĂ, Vlad A. CIUBOTARIU , Neculai NANU, 2009 . <i>Analysis of springback and residual stresses generated by cold plastic forming in drawn round parts made from steel sheets</i> , Metalurgia International, 14 (12), 27-34, ISSN: 1582-2214. WOS:000270922700004

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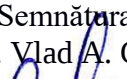
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Membru in echipa	
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Data completării,
10.10.2025

Semnătura,
Sl. dr. ing. Eugen HERGHELEGIU

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