

Nume Prenume:BARBU IONEL.....
Gradul didactic:PROFESOR UNIVERSITAR.....
Instituția unde este titular:UAV ARAD.....
Facultatea:INGINERIE.....
Departamentul:AIITT.....

L I S T A
lucrărilor științifice în domeniul disciplinelor din postul didactic
perioada 01.01.2014 – 30.09.2026

A. Teza de doctorat

- 1.a. – **Domeniul: Inginerie Industrială, Tema: Contributii la proiectarea tehnologica asistata de calculator a amestecurilor fibroase tip bumbac, 1992 - 1998, Conducător științific, prof.univ.dr.ing.mat. Mihai Ciocoiu, Universitatea Tehnica Gh. Asachi Iasi, Facultatea de Textile-Pielarie, susținută în iunie 1998;**
1.b. – **Domeniul: Economie, Tema: Valorificarea potențialului turistic rural al regiunii istorice Crișana, 2009 - 2014, Conducător științific, prof.univ.dr.Gheorghe Olah, Universitatea din Oradea, Facultatea de Științe Economice, susținută în iunie 2014**

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

1. Anul 2014
Barbu Ionel – *Bazele proceselor din filatura* – Indrumar pentru lucrari de laborator – Editura Mirton, Timisoara, 2014, ISBN 978-973-52-1463-0, 138 pag.
2. Anul 2015
Barbu Ionel - Managementul productiei industriale – note curs – format electronic, Arad, 2015
3. Anul 2016
Barbu Ionel - Procese și mașini în filatura de bumbac – curs – format electronic, Arad, 2016
4. Anul 2021
Barbu Ionel - Economia întreprinderii - note curs – format electronic, Arad, 2021 – editie revizuita
5. Anul 2022
Barbu Ionel – Procese în filatură – curs – format electronic, Arad, 2022
6. Anul 2023
Barbu Ionel - Statistică aplicată - note curs – format electronic, Arad, 2023 – editie revizuita

C. Lucrări indexate ISI publicate în ultimii 10 ani

1. Anul 2015
Lucrare Q3 - Lilioara Surdu, Ion Razvan Radulescu, **Barbu Ionel** - *Life cycle assessment for medical textiles treated with plasma* – Industria Textila, vol 66, nr. 6 / 2015, pag. 360 – 364, FI=0,57, WOS: 000368320000008

2. Anul 2017

2.a. Lucrare Q3 - Improved properties of wool on sheepskins by low pressure plasma treatment – CarmenGAIDAU, Lilioara SURDU, Mihaela-Doina NICULESCU, Laurentiu DINCA, Ionel BARBU – Industria Textila nr 3 / 2017, pag. 193-196, FI = 0,438
http://www.revistaindustriatextila.ro/images/2017/Industria%20Textila%203_2017%20web.pdf

2.b. Lucrare Q3 - Research on cold plasma treatment of leather and for based materials as ecological alternative – Carmen Gaidau, Mihaela-Doina Niculescu, Todorka Vladkova, Lilioara Surdu, Ionel BARBU, Peter Dineff – Industria Textila nr 5 / 2017, pag. 350-356, FI = 0,438
http://www.revistaindustriatextila.ro/images/Textila_nr_5_2017r.pdf

2.c. Szabo Monica, Barbu Ionel, Jitaru Laurentiu - Aspects of the dimensional changes of jersey structures after knitting process – ModTech International Conference, June 14-17, 2017, Sibiu , IOP vol 227, ISSN 2286-4369
[HTTP://APPS.WEBOFKNOWLEDGE.COM/FULL_RECORD.DO?PRODUCT=WOS&SEARCH_MODE=MARKEDLIST&QID=37&SID=C1FFP2HVAB63D5Z4XLD&PAGE=1&DOC=6&COLNAME=WOS](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=MarkedList&qid=37&sid=C1FFP2HVAB63D5Z4XLD&page=1&doc=6&colName=WOS)
DOI: 10.1088/1757-899X/227/1/012125
WOS:000409221600125

2.d. MS Fogorasi , Ionel Barbu The potential of natural fibres for automotive sector - *review* -- CAR2017 International Congress of Automotive and Transport Engineering - Mobility Engineering and Environment, 8–10 November 2017, Pitesti, Romania, ISSN 1757-8981, IOP vol 252
[http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=MarkedList&qid=29&SID=C1FFP2HVAB63D5Z4XLD&page=1&doc=4&colName=WOS](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=MarkedList&qid=29&sid=C1FFP2HVAB63D5Z4XLD&page=1&doc=4&colName=WOS)
DOI: 10.1088/1757-899X/252/1/012044
WOS:000419817200044

3. Anul 2018

3.a. Barbu Ionel - The program for experimental data processing in cotton spinning mill — eLSE 2018 – 14-th International Conference eLearning and Software for Education, 19-20 april 2018 Bucharest, Volume 3 | DOI: 10.12753/2066-026X-18-159 | Pages: 126-131, ISSN 2066-026X

3.b. M Szabo, Ionel Barbu - Comparative study on the wearing comfort of clothing items made by classic and unconventional technologies - ModTech International Conference, Modern Technologies in Industrial Engineering, June 13-16, 2018, Constanta, Romania, pag 243, , IOP vol 400, ISSN: 1757-8981
[http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=MarkedList&qid=25&SID=C1FFP2HVAB63D5Z4XLD&page=1&doc=3&colName=WOS](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=MarkedList&qid=25&sid=C1FFP2HVAB63D5Z4XLD&page=1&doc=3&colName=WOS)
DOI: 10.1088/1757-899X/400/6/062028
WOS:000461147400170

3.c. Ionel Barbu, M Szabo, V L Andrei, C Dulceanu, V P Ardelean - The influence of equipment manufacturing technologies on performance in sports - ModTech International Conference, Modern Technologies in Industrial Engineering, June 13-16, 2018, Constanta, Romania, pag 70, IOP vol 400, ISSN: 1757-8981
[http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=MarkedList&qid=21&SID=C1FFP2HVAB63D5Z4XLD&page=1&doc=2&colName=WOS](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=MarkedList&qid=21&sid=C1FFP2HVAB63D5Z4XLD&page=1&doc=2&colName=WOS)
DOI: 10.1088/1757-899X/400/2/022011
WOS:000461147400011

3.d. Ionel Barbu, M Szabo, M S Fogorasi - The high quality yarns – the first condition for quality textiles - ModTech International Conference, Modern Technologies in Industrial Engineering, June 13-16, 2018, Constanta, Romania, pag 231, IOP vol 400, ISSN 2286-4369
http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=MarkedList&qid=17&SID=C1FFP2hvAB63d5z4xLD&page=1&doc=1&colName=WOS
DOI: 10.1088/1757-899X/400/6/062004
WOS:000461147400146

3.e. Ionel Barbu, Magdalena Simona Fogorasi, Mihaela Dochia, Monica Pustianu, Adina Bucevschi, Daniela Farima A *Comparative Study on the Comfort and Safety of the Seat Cover Fabrics*, Proceedings of the 4th International Congress of Automotive and Transport Engineering (AMMA 2018), Print ISBN 978-3-319-94408-1 Pages 429-436, Part of the Proceedings in Automotive Engineering book series (PRAENG), Indexata in Conference Proceedings Citation Index (CPCI), part of Clarivate Analytics' ISI Web of Science, EI Engineering Index (Compendex and Inspec databases), ACM Digital Library, DBLP, Google Scholar, IO-Port, MathSciNet, Scopus, Zentralblatt MATH
https://link.springer.com/chapter/10.1007/978-3-319-94409-8_50
DOI https://doi.org/10.1007/978-3-319-94409-8_50

4. Anul 2019

4.a. Teaching and e-learning about cotton ring spinning frame - Ionel BARBU, Andrei KOMJATY, Magdalena Simona FOGORASI, Adina BUCEVRSCHI, Monica PUSTIANU - The 15th International Scientific Conference, eLearning and Software for Education, Bucharest, April 11-12, 2019, 10.12753/2066-026X-19-000
Modtech 2019

4.b. Classic or unconventional cotton yarns? By: Bucevschi, A (Bucevschi, A.)^[1]; Fogorasi, MS (Fogorasi, M. S.)^[1]; Nicolaescu, C (Nicolaescu, C.)^[2]; Barbu, I (Barbu, I.)^[1]
View Web of Science ResearcherID and ORCID
MODERN TECHNOLOGIES IN INDUSTRIAL ENGINEERING VII (MODTECH2019)
Edited by: Raval, HK; Naito, M; Park, HS; Cortes, DM; Sasmazel, HT; Placzek, M; Milosevic, O; Topala, P; AlMaliky, SJB; Nedelcu, D
Book Series: IOP Conference Series-Materials Science and Engineering
Volume: 591
Article Number: 012004
DOI: 10.1088/1757-899X/591/1/012004
Published: 2019
ModTech International Conference Modern Technologies in Industrial Engineering June 19-22, 2019, Iasi, Romania

4.c. The study of the traction behaviour of knitted structures with controlled dimensional stability
By: Szabo, M (Szabo, M.)^[1]; Babanatis-Merce, RM (Babanatis-Merce, R. M.)^[1]; Barbu, I (Barbu, I.)^[1]; Babanatsas, T (Babanatsas, T.)^[1]; Jitaru, L (Jitaru, L.)^[1]
View Web of Science ResearcherID and ORCID
MODERN TECHNOLOGIES IN INDUSTRIAL ENGINEERING VII (MODTECH2019)
Edited by: Raval, HK; Naito, M; Park, HS; Cortes, DM; Sasmazel, HT; Placzek, M; Milosevic, O; Topala, P; AlMaliky, SJB; Nedelcu, D
Book Series: IOP Conference Series-Materials Science and Engineering
Volume: 591, Article Number: 012098, DOI: 10.1088/1757-899X/591/1/012098, Published: 2019,

ModTech International Conference *Modern Technologies in Industrial Engineering June 19-22, 2019, Iasi, Romania*

4.d. Study of dimensional changes during washing process for 1:1 interlock cotton yarns - By: Szabo, M (Szabo, M.)^[1]; Babanatis-Merce, RM (Babanatis-Merce, R. M.)^[1]; Barbu, I (Barbu, I.)^[1]; Babanatsas, T (Babanatsas, T.)^[1]; Jitaru, L (Jitaru, L.)^[1]

View Web of Science ResearcherID and ORCID

MODERN TECHNOLOGIES IN INDUSTRIAL ENGINEERING VII (MODTECH2019)

Edited by: Raval, HK; Naito, M; Park, HS; Cortes, DM; Sasmazel, HT; Placzek, M; Milosevic, O; Topala, P; AlMaliky, SJB; Nedelcu, D

Book Series: IOP Conference Series-Materials Science and Engineering

Volume: 591, Article Number: 012099, DOI: 10.1088/1757-899X/591/1/012099, Published: 2019

ModTech International Conference Modern Technologies in Industrial Engineering June 19-22, 2019, Iasi, Romania

5. Anul 2020

5.a. Barbu Ionel, Fogorasi Magdalena Simona, Komjaty Andrei, Bucevschi Adina, Culda Lavinia, Robert Kaminszky - Teaching and e-learning about open-end spinning machine, The 16th International Scientific Conference, eLearning and Software for Education, Bucharest, April 11-12, 2020
Volume 3 | DOI: 10.12753/2066-026X-20-208 | Pages: 285-293

5.b. E-LEARNING - A TOOL FOR EXPLOITATION OF TEXTILE TENSILE TESTING MACHINE
Authors: Fogorasi Magdalena Simona, Barbu Ionel, Komjaty Andrei, Bucevschi Adina, The 16th International Scientific Conference, eLearning and Software for Education, Bucharest, April 11-12, 2020
Volume 3 | DOI: 10.12753/2066-026X-20-211 | Pages: 309-316

5.c. E-LEARNING ABOUT QUALITY CONTROL IN THE TEXTILE INDUSTRY. CASE STUDY
Authors: Bucevschi Adina, Barbu Ionel, Fogorasi Magdalena Simona, Pustianu Monica, Airinei Erzsebet, The 16th International Scientific Conference, eLearning and Software for Education, Bucharest, April 11-12, 2020
Volume 3 | DOI: 10.12753/2066-026X-20-210 | Pages: 301-308

5.d. Classic or fully automated technology lines? I Barbu¹, M S Fogorasi¹, C Nicolaescu² and A Bucevschi¹ - Published under licence by IOP Publishing Ltd, IOP Conference Series: Materials Science and Engineering, Volume 916, ModTech International Conference - Modern Technologies in Industrial Engineering VIII 24-27 June 2020, Constanta, Romania

5.e. Ergonomics elements and their influence in the garment industry - I Barbu¹, M S Fogorasi¹, A Bucevschi¹ and C Nicolaescu² - Published under licence by IOP Publishing Ltd - IOP Conference Series: Materials Science and Engineering, Volume 916, ModTech International Conference - Modern Technologies in Industrial Engineering VIII 24-27 June 2020, Constanta, Romania

6. Anul 2021

6.a. Barbu Ionel, Fogorasi Magdalena Simona, Komjaty Andrei, Bucevschi Adina, Pustianu Monica, Robert Kaminszky, DOCHIA Mihaela - TEACHING AND E-LEARNING ABOUT DRAW FRAME MACHINE - The 17th International Scientific Conference, eLearning and Software for Education,

6.b. M Dochia, R Kaminszky, MS Fogorasi, A Bucevschi, I Barbu, A Popa, C Nicolaescu - Aspects regarding the behaviour and comfort of reusable wool protective masks in the context of the COVID 19 pandemic – ModTech 2021 Conference - IOP Conference Series: Materials Science and Engineering Volume: 1182, Issue: 1, Pages: 012-018

6.c. M Dochia, R Kaminszky, MS Fogorasi, D Farima, I Barbu, C Nicolaescu, M Pustianu, A Popa, A Bucevschi - Study on the behaviour and comfort of reusable knitting suits of wool blends in the context of the Covid 19 pandemic, ModTech 2021, IOP Conference Series: Materials Science and Engineering, Volume: 1182, Issue: 1, Pages: 012019

7. Anul 2023

7.1. Lucrare Journal of Natural Fibers Q1 - Innovative Solution for Reducing Yarns Hairiness on Ring Spinning Machines - Kaminszky, R (Kaminszky, Robert) [1] ; Avram, D (Avram, Dorin) [2] ; Fogorasi, MS (Fogorasi, Magdalena Simona) [3] ; Dochia, M (Dochia, Mihaela) [4] ; Barbu, I (Barbu, Ionel) [3] ; Popa, A (Popa, Alexandru) [3] ; Bucevschi, A (Bucevschi, Adina) [3] Volume 20, Issue 2, DOI 10.1080/15440478.2023.2248386, Article Number 2248386, Published NOV 1 2023, Indexed 2023-09-04, Document Type Article

D. Lucrări indexate BDI publicate în ultimii 10 ani

1. Anul 2014

1.a. Ionel Barbu - Involvement of local public administration on the development of rural tourism - New Challenges EINCO 2012, 30-31 may 2014, Oradea, Section Economics and Business Administration

1.b. Adina Bucevschi, Ionel Barbu, , Monica Pustianu, A. Popa, E.Airinei – Some aspect about weaving process optimization - Annals of the “Constantin Brancusi” University of Targu Jiu, Engineering Series, 2014, No. 4, ISSN 1842 – 4856, pg. 76-82, (B+), Link lucrare http://www.utgjiu.ro/revista/ing/pdf/2014-4/11_A%20%20Bucevschi.pdf

1.c. Ionel Barbu, Adina Bucevschi, Monica Pustianu – Good carded means half spinning - Annals of the “Constantin Brancusi” University of Targu Jiu, Engineering Series, 2014, No. 4, ISSN 1842 – 4856, pg. 71-75, (B+) Link lucrare http://www.utgjiu.ro/revista/ing/pdf/2014-4/10_Ionel%20Barbu.pdf

2. Anul 2015

2.a. Bulacu Romulus, Farima Daniela, **Barbu Ionel**, Farima Madalina ,Ciocoiu Mihai - Nonwoven textiles with medical destination Romanian production - Annals of the University of Oradea Fascicle of Textiles, leatherwork, Oradea, mai, 2015

2.b. Bulacu Romulus, Farima Daniela, Ciocoiu Mihai, **Barbu Ionel** - Geotextiles from recovered fibers - Annals of the University of Oradea Fascicle of Textiles, leatherwork, Oradea, mai, 2015

2.c. Ionel Barbu, Cristina Nicolaescu, Ciprian Ionel Turturean - The influence of macroeconomic factors on arrivals in rural touristic pensions in Crisana region from Romania – part 1 - The annals of the university of Oradea, Economic sciences - ISSN 1222-569X, Oradea, mai 2015

2.d. Ionel Barbu, Cristina Nicolaescu, Ciprian Ionel Turturean - The influence of macroeconomic factors on arrivals in rural touristic pensions in Crisana region from Romania – part 2 - The annals of the University of Oradea, Economic sciences - ISSN 1222-569X, Oradea, mai 2015

3. Anul 2016

3.a. Scarlat Razvan, Carpus Eftalea, Donciu Codrin, Popa Alexandru, Barbu Ionel - ESD - FUNCTIONAL CLOTHING - Annals of the University of Oradea fascicle of textiles, leatherwork, Oradea, 27-28 mai, **2016**, vol XVII, nr. 1, pag. 125-130, <http://textile.webhost.uoradea.ro/Annals/AUO-FTL-Vol%20XVII-No%201.pdf> ISSN 1843 – 813X

3.b. Vlad Dorin, BARBU Ionel, Szabo Monica - RESEARCH ON TRANSFER OF LIQUID WATER ABSORPTION OF KNITED STRUCTURES FOR SOCKS DESTINATION - Annals of the University of Oradea fascicle of textiles, leatherwork, Oradea, 27-28 mai, **2016**, vol XVII, nr.2, pag. 139-144, <http://textile.webhost.uoradea.ro/Annals/AUO-FTL-Vol%20XVII-No%202.pdf> ISSN 1843 – 813X

4. Anul 2017

The behaviour of the 2:2 rib structures made of 100% cotton yarns, Nm 40/1, after knitting process - Monica Szabo, Valentin Muller, **Ionel Barbu**, Laurențiu Jitaru, Universitatea "Aurel Vlaicu" Arad - ANNALS OF THE UNIVERSITY OF ORADEA - FASCICLE OF TEXTILES, LEATHERWORK – **2017**

5. Anul 2019

Airinei, E., Pustianu, M., **Barbu, I.**, Popa, A., Bucevschi, A. - Study regarding the optimisation of the jersey's mass - Fascicle of Textiles, Leatherwork, , ISSN 1843 – 813X, indexată EBSCO, DOAJ, DRJI, Google Scholar, , VOLUME XX/ No. 2, **2019**; 7-12

6. Anul 2020

PUSTIANU Monica, FOGORASI Magdalena, BARBU Ionel, AIRINEI Erzsebet, POPA Alexandru, BUCEVSCHI Adina - COLOR CHANGE STUDY BY RETREATMENT WITH DIRECT DYES. STUDY CASE - ANNALS OF THE UNIVERSITY OF ORADEA FASCICLE OF TEXTILES, LEATHERWORK – vol. 21 nr.2, **2020**, pag 69-72

7. Anul 2022

ESTIMATION OF QUALITY LEVEL BASED ON QUALITY INDICATORS- PUSTIANU Monica, POPA Alexandru, BARBU Ionel, FOGORASI Magdalena, BUCEVSCHI Adina - Aurel Vlaicu University, Faculty of Engineering, AIITT Department, Revoluției, 77, 310130, Arad, Romania, E-Mail: pustianumonica@yahoo.com, Corresponding author: Barbu, Ionel, E-mail: ionelbarbu@yahoo.com, ANNALS OF THE UNIVERSITY OF ORADEA, FASCICLE OF TEXTILES, LEATHERWORK

G. Contracte de cercetare

Studiu privind confortul fiziologic conferit de mastile de protectie reutilizabile din lana in amestec cu matase in contextul Covid – 19 – contract cu agenti economici, 2020 - SWS Simleu Silvaniei, **25500 RON**, membru in colectiv. Director de proiect – Fogorasi Magdalena

Studiul privind combinezoanele din lana in amestec cu matase in contextul Covid-19 contract cu agenti economici, 2020 - SWS Simleu Silvaniei, nefinantat, implicare benevola in activitatea societatii, membru in colectiv.

Contract de cercetare cu agenți economici : valoare: 30000 RON, S.C. Techtext, Studiu asupra activităților de sortare în centre de colectare a deșeurilor textile, pentru valorificarea acestora

printr-o economie circulară, Director proiect, dr.ing. Bucevschi Adina, Echipa proiectului: dr.ing. Ionel Barbu , dr.ch.habil. Copolovici Lucian, dr.ch.habil. Copolovici Dana, dr.ing. Fogorasi Magdalena, dr.ing. Dochia Mihaela, dr.ing. Pustianu Monica, dr.ec. Nicolaescu Cristina, dr.ec. Bija Monica

Contract de cercetare cu agenți economici : valoare: 35500 RON, S.C. Techtex, Studiu privind activitati de management intr-un centru de colectare a deșeurilor textile pentru o valorificare a acestora printr-o economie circulară - Director proiect, dr.ing. Bucevschi Adina, Echipa proiectului: dr.ing. Ionel Barbu , dr.ch.habil. Copolovici Lucian, dr.ch.habil. Copolovici Dana, dr.ing. Fogorasi Magdalena, dr.ing. Dochia Mihaela, dr.ing. Pustianu Monica, dr.ec. Nicolaescu Cristina, dr.ec. Bija Monica

Contract de cercetare cu agenți economici : valoare: 25500 RON, S.C. Techtex, Studiul tehnologiilor de reciclare termica; tehnologii termice de transformare a semifabricatelor in produs finit pentru valorificarea deșeurilor textile printr-o economie circulara - Director proiect, Dr.ing. Fogorasi Magdalena Simona - Echipa proiectului: Dr.ing. Ionel Barbu , Dr.ch.habil. Copolovici Lucian, Dr.ch.habil. Copolovici Dana, Dr.ing. Dochia Mihaela , Dr.ing. Pustianu Monica, Dr.ec. Nicolaescu Cristina, Dr.ing. Bucevschi Adina

Contract de cercetare cu agenți economici : valoare: 25500 RON, S.C. Techtex, Studiul tehnologiilor de reciclare chimica; tehnologii chimice de transformare a semifabricatelor in produs finit pentru valorificarea deșeurilor textile printr-o economie circulară. - Director proiect, Dr.ing. Dochia Mihaela - Echipa proiectului: Dr.ing. Barbu Barbu , Dr.ch.habil. Copolovici Lucian, Dr.ch.habil. Copolovici Dana, Dr.ing. Pustianu Monica, Dr.ec. Nicolaescu Cristina, Dr.ing. Bucevschi Adina, Dr.ing. Fogorasi Magdalena-Simona

Data:

10.09.2026

Semnătura:

Prof.univ.dr.ing.dr.ec. Ionel Barbu

