

PUBLICATIONS LIST
PhD. ENG. MIHAELA DOCHIA

I. ISI articles and ISI Proceedings articles

1. M.D. Stănescu, M. Fogorasi, **M. Dochia**, S. Mihaela, V.I. Lozinsky
Biotechnology for Textile Waste Valorization
Revista de Chimie, **2009**, 60, nr.1, 59-62
ISSN 0034-7752
2. M.D. Stănescu, **M. Dochia**, D. Radu, C. Sîrghie
Green solution for cotton scouring
FIBRES & TEXTILES in Eastern Europe, **2010**, 18, 3(80), 109-111.
ISSN 1230-3666
3. **M. Dochia**, M. D. Stănescu, C. Constantin
Calcium Content Indicator of Scouring Efficiency
FIBRES & TEXTILES in Eastern Europe, **2013**; 21, 3(99), 22-25.
4. I.V. Iștoc, M. Pustianu, **M. Dochia**, Cecilia Sîrghie, A. Popescu
Study Regarding the Optimization of the Bioscouring Treatment with Ultrasound on 100 % Cotton Materials
Industria Textilă, **2014**, Vol.65, No. 2, 70-74.
5. I. V. Iștoc, **M. Dochia**, I. Dumitrescu, C. Sîrghie
Enzymatic finishing of blended textile materials from cottonised flax and cotton fibers
Industria Textilă, **2014**, Vol.65, No. 3, 129-133.
6. A. Sanislav, M. Fogorasi, M. D. Stănescu, S. Muntean, **M. Dochia**
Ultrasound Effect on Dyeing Wool Fibers with Two Anthraquinone Dyes
Fibers and Polymers, **2015**, Vol.16, No.1, 62-66.
7. C. Sîrghie, **M. Dochia**, I. V. Istoc, D. Chambre, L. Copolovici
A comparison of a new method mediated by molybdenum complex with an enzymatic method for bleaching flax fibers
Journal of Natural Fibers, **2015**, 12:4, 378-387.
8. **M. Dochia**, S. Gavrițaș, M. Pustianu, D. Tomescu, D.M. Copolovici
Comparative study regarding the influence of the complexing agents EDTA and sodium citrate on the 50% flax-50% cotton fabrics during the bioscouring treatment
Proceedings of the 16th International Multidisciplinary Scientific Geoconference SGEM 2016, Book 6, Nano, Bio and Green-Technologies for a Sustainable Future, Conference Proceedings, **2016**, Volume III, 223-230, ISBN 978-619-7105-79-7, ISSN 1314-2704, DOI 10.5593/sgem2016HB63.
9. M. Pustianu, **M. Dochia**, C. Sîrghie, S. Gavrițaș, D. Tomescu
Treatment optimization for bioscouring in ultrasound of cotton/cottonised hemp blended fabrics
Proceedings of the 7th International Workshop on Soft Computing Applications, Advances in Intelligent Systems and Computing 634, **2017**, Vol. 2, 595-604, doi: 10.1007/978-3-319-62524-9.

10. M. Bălaș, C. Sîrghie, M. Pustianu, **M. Dochia**, S. Gavrițaș, D. Tomescu
Fuzzy method applied on the control of textiles biotechnologies
Proceedings of the 7th International Workshop on Soft Computing Applications, Advances in Intelligent Systems and Computing 634, **2017**, Vol. 2, 605-611, doi: 10.1007/978-3-319-62524-9.
11. M. Pustianu, **M. Dochia**, S. Gavrițaș, D. Tomescu
Study of the efficiency of bioscouring treatment by determination of the residual Ca²⁺ from flax-cotton fabrics
Proceedings of the 17th International Multidisciplinary Scientific Geoconference SGEM 2017, Nano, Bio, Green and Space-Technologies for a Sustainable Future, **2017**, Vol. 17, Nr. 61, 1007-1014.
12. **M. Dochia**, M. Pustianu, S. Gavrițaș, D. Tomescu, D. M. Copolovici
Study of the ultrasound efficiency on bioscouring treatment of hemp - cotton fabrics
Proceedings of 17th International Multidisciplinary Scientific Geoconference SGEM 2017, Nano, Bio, Green and Space-Technologies for a Sustainable Future, **2017**, Vol. 17, Nr. 61, 1015-1023.
13. **M. Dochia**, D. Chambre, S. Gavrițaș, C. Moisă
Characterization of the complexing agents' influence on bioscouring cotton fabrics by FT-IR and TG/DTG/DTA analysis
Journal of Thermal Analysis and Calorimetry, **2018**, 132, 1489–1498, <https://doi.org/10.1007/s10973-018-7089-y>.
14. **M. Dochia**, M. Pustianu, C. Moisă, D. Chambre, S. Gavrițaș
Sodium citrate as an eco-friendly complexing agent for the bioscouring treatment of the cellulosic/lignocellulosic fabrics
Chemical Papers, **2018**, 72(8), 1881-1888, ISSN 2585-7290, <https://doi.org/10.1007/s11696-018-0455-1>.
15. I. Barbu, S. M. Fogorasi, **M. Dochia**, M. Pustianu, A. Bucevschi, D. 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). Proceedings in Automotive Engineering. Springer, Cham, **2018**, 429-436. Print ISBN 978-3-319-94408-, Online ISBN 978-3-319-94409-8.
16. D. Chambre, **M. Dochia**, S. Gavrițaș
TG/DTG analysis of an eco-friendly scoured fabric
Revue Roumaine de Chimie, **2019**, 64(5), 453-460, Doi: 10.33224/rrech.2019.64.5.09.
17. A. Bujdei, S. Gavrițaș, **M. Dochia**, F. D. Munteanu
Vegetable food waste for cotton dyeing-new directions for environmental sustainability
Proceedings of the 22nd International Symposium "The Environment and Industry" SIMI, **2019**, 113-120. ISSN-L: 1843 - 5831, <https://doi.org/10.21698/simi.2019.fp15>.

II. PhD thesis

Title: “***Application of biotechnologies for processing row and waste cellulosic textile materials***”

University POLITEHNICA of Bucharest

Faculty of Applied Chemistry and Materials Science

Supervisor: Prof. Michaela Dina Stănescu.

III. Patents

1. Sîrghie Cecilia, Botar Alexandru, Dinca Nicolae, Craciun Grigore, **Dochia Mihaela**, *“Procedeu ecologic de albire a fibrelor naturale prin oxidare catalitica cu polioxometalati”* - Brevet nr. 122728/30.12.2009, Romania.
2. Stănescu Michaela Dina, Cărpuş Eftalea, Fogorasi Magdalena, Popescu Alina, **Dochia Mihaela**, Mihuţa Silvia, *“Procedeu ecologic de recuperare a poliesterului din deseuri textile poliester/bumbac”* Brevet nr. 122919/30.04.2010, Romania.
3. Sîrghie Cecilia, Radu Dana Gina, Munteanu Florentina Daniela, Pag Andreea, **Dochia Mihaela**, Tomescu Daniel, *„Procedeu de topire a plantelor liberiene ca de exemplu: in, canepa, iuta, etc.”* - Brevet nr. 128837/30.06.2016, Romania.

IV. Book Chapters

1. **Handbook of natural fibres, Volume 1: Types, properties and factors affecting breeding and cultivation, Capitolul 2 – Cotton fibres**, autori: **M. Dochia**, C. Sîrghie, R.M. Kozlowski, Z. Roskwitalski, Editura **Woodhead Publishing Limited**, Series in Textiles, Cambridge, UK, Editor Ryszard M. Kozlowski, **2012**, pp. 11 - 23.
2. **Natural fibers: properties, mechanical behavior, functionalization and applications, Capitolul 1 - Cotton dominant natural fibre: production, properties and limitations in its production**, autori: **M. Dochia**, M. Pustianu, Editura Nova Science Publishers Inc., New York, Editori Ryszard M. Kozlowski și Malgorzata Muzyczek, **2017**, pp. 1 - 15.

V. Papers in IDB journals

1. M.D. Stănescu, M.S. Fogorasi, F. Chiraleu, **M. Dochia**, E. Heine *Spectroscopic Tools for Monitoring Enzyme Action in Textile Finishing* *DWI Reports*, **2004**, 128, B,1-5, ISSN 0942301X.
2. M.D. Stănescu, M.S. Fogorasi, **M. Dochia** *Enzymatic treatments of cotton-improvement of properties and environmental aspects* *DWI Reports*, **2006**, 130, 9p, ISSN 0942301X.
3. M.D. Stănescu, M.S. Fogorasi, **M. Dochia**, S. Mihuţa *Biodegradation of textile waste based on cotton* *DWI Reports*, **2007**, 131, P53, ISSN 0942301X.
4. F.D. Munteanu, **M. Dochia**, C. Sîrghie *Studies on the stability of a laccase used in ultrasound or in presence of emollient* *Analele Universitatii din Oradea, Fascicula Textile&Pielarie*, **2007**, vol VIII, 62-67 ISSN 1582-5590.
5. M. D. Stănescu, **M. Dochia**, M. Fogorasi, M. Pustianu, M.S. Bucur *Enzymes in Cotton Bio-Scouring* *U.P.B. Scientific Bulletin Series B: Chemistry and Materials Science*, **2010**, 72(3), 21-28.

6. M. Pustianu, M. Chindriș, A. Popa, E.t Airinei, A. Bucevschi, C. Sîrghie, **M. Dochia**
Study Regarding the Optimization of Wool Dyeing with Natural Dyes Extracted from Green Walnuts Part I: Determination of the Efficiency of the Dyeing treatment
Analele Universității din Oradea, Fascicola Textile&Pielarie, 2013, vol XIV, nr. 1, 167-170, P-ISSN: 1843-813X.

7. I.V. Iștoc, M. Pustianu, A. Bucevschi, **M. Dochia**, C. Sîrghie
Study Regarding the Optimization of the Bioscouring Treatment on 100% Cotton Materials
Proceedings of the 2nd International Conference on Energy and Environment Technologies and Equipment (EEETE '13), Energy, Environmental and Structural Engineering Series, Brașov, România, 1-3 Iunie 2013, 258-262, ISSN: 2227-4359, ISBN: 978-1-61804-188-3.

8. M. Pustianu, **M. Dochia**, M.S. Pernevan, C. Sîrghie
Study Regarding the Influence of the Bioscouring Treatment in Ultrasound on 60% cotton + 40% hemp materials. Part I. Study Regarding the Optimization of the Bioscouring Treatment
Analele Universității din Oradea, Fascicola Textile&Pielarie, 2014, vol XV, Nr. 1, 93-98, P-ISSN: 1843-813X.

9. **M. Dochia**, C. Sîrghie, M.S. Pernevan, M. Pustianu,
Study Regarding the Influence of the Bioscouring Treatment in Ultrasound on 60% cotton + 40% hemp materials. Part II. Study Regarding the Influence Bioscouring Treatment Followed by a Whitening Treatment Using Various Methods
Analele Universității din Oradea, Fascicola Textile&Pielarie, 2014, vol XV, Nr. 1, 99-102, P-ISSN: 1843-813X.

10. A. Popescu, C. Sîrghie, **M. Dochia**, D. M. Copolovici, L. Chirila
Aspects regarding natural dyeing of enzymatically pre-treated cellulosic blended yarns
Proceedings of the 5th International Conference on Advanced Materials and Systems – ICAMS, 2014, 373-378, ISSN: 2068 – 0783.

11. M. Szabo, **M. Dochia**, M. Lungu
Research study on the dimensional stability of interlock 1:1 knitted fabrics made of cotton yarns
Scientific Research and Education in the Air Force-AFASES, Mechanical Engineering. Materials and Technology, 2016, 367-376, DOI: 10.19062/2247-3173.2016.18.1.50.

12. M. Pustianu, C. Sîrghie, G. Böhm-Révész, **M. Dochia**
Part I. study regarding the optimization of the bioscouring treatment in ultrasound on 60 % cotton + 40 % cottonised flax materials
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Part II. Study regarding the influence of bioscouring treatment on 60 % cotton + 40 % cottonised flax materials followed by a whitening treatment using alternative methods
Analele Universității din Oradea, Fascicola Textile&Pielarie, 2016, vol XVII, 91-117, P-ISSN: 1843-813X.

14. M. Pustianu, **M. Dochia**, S. Gavrilaş, D. Tomescu, D. M. Copolovici
Study on the bioscouring treatment of 50 % of hemp + 50 % of cotton fabrics
Analele Universităţii din Oradea, Fascicola Textile&Pielarie, **2017**, vol XVIII, Nr. 2, 29-34,
P-ISSN: 1843-813X.
15. **M. Dochia**, M. Pustianu, S. Gavrilaş, D. Tomescu, D. M. Copolovici
Study on the influence of ultrasound in bioscouring treatment of 50 % of flax + 50 % of cotton fabrics
Analele Universităţii din Oradea, Fascicola Textile&Pielarie, **2017**, vol XVIII, Nr. 1, 27-32,
P-ISSN: 1843-813X.
16. M. Pustianu, **M. Dochia**, S. Gavrilaş, D. Tomescu
Comparative Study on Treatment Bioscouring Optimization with and without Ultrasound for 50 % of Cotton + 50 % of Flax Materials
Advanced Engineering Forum, **2018**, ISSN: 2234-991X, Vol. 27, 111-117.
<https://doi.org/10.4028/www.scientific.net/AEF.27.111>.
17. M. Pustianu, **M. Dochia**, S. Gavrilaş, C. Moisă
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Analele Universităţii din Oradea, Fascicola Textile&Pielarie, **2018**, vol XIX, Nr. 1, 83-88,
P-ISSN: 1843-813X.
18. **M. Dochia**, S. Gavrilaş, M. Pustianu, C. Moisă, D. Chambre
Waste water analysis from a new green pretreatment of cotton fabrics
Analele Universităţii din Oradea, Fascicola Textile&Pielarie, **2018**, vol XIX, Nr. 2, 37-42,
P-ISSN: 1843-813X.
19. **M. Dochia**, S. Gavrilaş
Physico-chemical parameters of residual water from different scouring treatments of hemp/cotton fabric
Analele Universităţii din Oradea, Fascicola Textile&Pielarie, **2019**, vol XX, Nr. 1, 41-46.
P-ISSN: 1843-813X.
20. S. Gavrilaş, **M. Dochia**
Efficiency assessment of the different scouring conditions of cotton materials by ruthenium red dyeing
Analele Universităţii din Oradea, Fascicola Textile&Pielarie, **2019**, vol XX, Nr. 2, 39-44.
P-ISSN: 1843-813X.

VI. Other scientific articles

1. M.S. Fogorasi, M.D. Stanescu, **M. Dochia**
Studiul influenţei pretratamentului enzimatic asupra vopsirii materialelor din bumbac
Scien. and Techn. Bulletin, **2004**, 10, 53 – 57, ISSN 1582 – 1021.
- 2 **M. Dochia**, M.D. Stanescu
Biotechnology Applications in Cotton Processing
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3. F.D. Munteanu, **M. Dochia**, C. Sîrghie
Sonolysis of DeniLite laccase: effects on enzymatic activity
Scientific Bulletin of ESCORENA, Vol. 2, **2011**, pp. 43-45
ISSN-L 2066-5687, ISSN 2069-8070.
4. R.M. Kozlowski, M. S. Pernevan, **M. Dochia**
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Scientific Bulletin of ESCORENA, Vol. 3, **2011**, pp. 31-37
ISSN-L 2066-5687, ISSN 2069-8070.
5. R.M. Kozlowski, W. Konczewicz, R. Kaniewski, **M. Dochia**, M.S Pernevan
The methods of degumming bast fibrous plants
Scientific Bulletin of ESCORENA, Vol. 4, **2012**, pp. 17-31
ISSN-L 2066-5687, ISSN 2069-8070.
6. R.M. Kozlowski, **M. Dochia**, M.S. Pernevan, M. Elena
Possibilities of bonding lignocellulosic materials by enzymatic system
Scientific Bulletin of ESCORENA, Vol. 4, **2012**, pp. 33-41
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7. **M. Dochia**, C. Sîrghie, L. Copolovici
Degumming process of flax at industrial pilot scale
Scientific Bulletin of ESCORENA, Vol. 8, **2013**, pp. 09-16
ISSN-L 2066-5687, ISSN 2069-8070.
8. M. Pustianu, M. Chindriș, C. Sîrghie, **M. Dochia**
Natural dyes in green walnut shells for textile materials dyeing
Scientific Bulletin of ESCORENA, Vol. 8, **2013**, pp. 16-22
ISSN-L 2066-5687, ISSN 2069-8070.
9. D.R. Chambre, **M. Dochia**
Characterization of alkaline and enzymatically treated hemp fibers by FT-IR ATR spectroscopy
Scientific and Technical Bulletin, Series Chemistry, Food Science & Engineering, **2018**, vol. 15(XVI), 18-22.

VII. International conferences

1. M.D. Stanescu, M.S. Fogorasi, M.Bucur, M. Pustianu, **M. Dochia**
Enzymes in Cotton Bioscouring
13th International Conference on Chemistry and Chemical Engineering
Bucuresti, Romania, vol. 3, septembrie **2003**, 43-48.
ISBN 973-652-825-1.
2. M. Fogorasi, M.D. Stanescu, **M. Dochia**
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3. M.D. Stanescu, M.S. Fogorasi, M. Bucur, M. Pustianu, S. Mihuta, **M. Dochia**
Influence of Reaction Parameters on Cotton Bioscouring
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5. M.D. Stanescu, M. Fogorasi, S. Mihuta, **M. Dochia**
Biotreatments of textile waste based on cotton
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9-14 Iulie **2006**, Leipzig, Germania, P462.
6. M.S. Bucur, M. Szabo, C. Sîrghie, **M. Dochia**, M. Dan
Influența tratamentului cu compuși de tip POM asupra alungirii la rupere a fibrelor de cânepă
Proceedings of the International Symposium “Research and Education in an Innovation Era”,
Engineering Sciences, **2008**, 447-456.
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7. M. Pustianu, C. Sîrghie, G. Böhm-Révész, **M. Dochia**
Part I. study regarding the optimization of the bioscouring treatment in ultrasound on 60 % cotton + 40 % cottonised flax materials
"Innovative solutions for sustainable development of textiles and leather industry", 27-28 May, **2016**, Oradea, Romania.
8. **M. Dochia**, C. Sîrghie, M. Pustianu
Part II. Study regarding the influence of bioscouring treatment on 60 % cotton + 40 % cottonised flax materials followed by a whitening treatment using alternative methods
"Innovative solutions for sustainable development of textiles and leather industry", 27-28 May, **2016**, Oradea, Romania.
9. M. Bălaș, C. Sîrghie, M. Pustianu, **M. Dochia**, S. Gavrițaș, D. Tomescu
Fuzzy Methods Applied on the Control of Textile Biotechnologies
7th International Workshop on Soft Computing Applications (SOFA 2016)", 24-26 August **2016**, Arad, Romania.
10. M. Pustianu, **M. Dochia**, C.Sîrghie, S. Gavrițaș, D. Tomescu
Treatment optimization for bioscouring in ultrasound of cotton/cottonised hemp blended fabrics
7th International Workshop on Soft Computing Applications (SOFA 2016)", 24-26 August **2016**, Arad, Romania.
11. **M. Dochia**, S. Gavrițaș, M.Pustianu, D.Tomescu
Physico-chemical parameters of the wastewaters resulted from the bioscouring treatment of the cellulosic/lignocellulosic fabrics
A XXXIV-a Conferința Națională de Chimie, 4-7 October, **2016**, Căciulata, Romania, Secțiunea 5, pagina 9.
12. **M. Dochia**, S. Gavrițaș, M. Pustianu, D. Tomescu, D. M. Copolovici
Comparative study regarding the influence of the complexing agents EDTA and sodium citrate on the 50% flax-50% cotton fabrics during the bioscouring treatment
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13. M. Pustianu, **M. Dochia**, S. Gavrițaș, D. Tomescu
Comparative study on treatment bioscouring optimization with and without ultrasound for 50 % of Cotton + 50 % of flax materials
 "4th International Conference Advances in Engineering & Management - ADEM", 17-18 November, **2016**, Drobeta-Turnu Severin, Romania.
14. **M. Dochia**, S.Gavrițaș, M.Pustianu, D. Tomescu, C.Sîrghie, D. M. Copolovici
Determination of the residual pectin from a bioscoured flax/cotton fabric using Ruthenium Red method
 6th International Symposium "Research and Education in an Innovation Era", 8-10 December, **2016**, Arad Romania.
15. S. Gavrițaș, **M. Dochia**, M. Pustianu, D. Tomescu
Calcium spectrophotometric determination from flax-cotton fabrics after bioscouring treatment
 6th International Symposium "Research and Education in an Innovation Era", 8-10 December, **2016**, Arad Romania, abstracts book p. 24.
16. M. Pustianu, **M. Dochia**, S. Gavrițaș, D. Tomescu, D. M. Copolovici
Study on the bioscouring treatment of 50 % of hemp + 50 % of cotton fabrics
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17. **M. Dochia**, M. Pustianu, S. Gavrițaș, D. Tomescu, D. M. Copolovici
Study on the influence of ultrasound in bioscouring treatment of 50 % of flax + 50 % of cotton fabrics
 "Innovative solutions for sustainable development of textiles and leather industry", 26-27 May, **2017**, Oradea, Romania.
18. M. Pustianu, **M.Dochia**, S. Gavrițaș, D. Tomescu
Study of the efficiency of bioscouring treatment by determination of the residual Ca²⁺ from flax-cotton fabrics
 17th International Multidisciplinary Scientific Geoconference SGEM 2017, Nano, Bio, Green and Space-Technologies for a Sustainable Future, 27 June-06 July, **2017**, Albena, Bulgaria.
19. **M. Dochia**, M. Pustianu, S. Gavrițaș, D. Tomescu, D. M. Copolovici
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21. S. Gavrițaș, **M. Dochia**, M. Pustianu, C. Moisă, D. Chambre
Influence of the bioscouring complexing agents on the thermal degradation of cotton fabrics
 CEEC-TAC4-4th Central and Eastern European Conference on Thermal Analysis and Calorimetry, 28-31 August, **2017**, Chișinău, Republica Moldova, Abstracts book p. 169.

22. **M. Dochia**, S. Gavrilăş, M. Pustianu, D. Tomescu
Sodium Citrate as a New Possible Complexing Agent for the Bioscouring Treatment of the Cellulosic/Lignocellulosic Fabrics.
20th Romanian International Conference on Chemistry and Chemical Engineering, 6-9 September, **2017**, Poiana Braşov, Romania.
23. S. Gavrilăş, **M. Dochia**, C. Moisă, M. Pustianu
Physicochemical methods used to determine residual calcium and pectines from cotton fabrics after pectinolytic treatment
„EASTWEST Chemistry Conference”, 12-14 October, **2017**, Skopje, Macedonia.
24. **M. Dochia**, S. Gavrilăş, M. Pustianu, C. Moisă
Characterization of waste waters from different bioscouring technologies for cotton materials
"Environment & Progress" Symposium, 10 November, **2017**, Cluj-Napoca, Romania.
25. **M. Dochia**, D. Chambre, S. Gavrilăş, M. Pustianu, I. Tolan, G. Onofrei
Experimental contidions influence on the thermal behaviour of cotton-flax fabrics after an eco-friendly pretreatment
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26. **M. Dochia**, S. Gavrilăş, M. Pustianu, D. Chambre, C. Sîrghie
Phisico-mechanical properties of the cotton/flax blended fabrics after a green scouring treatment
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27. D. Chambre, **M. Dochia**, C. Sîrghie, I. Tolan, G. Onofrei, A.M. Bodescu
Thermal and FT - IR analysis of bioscourred cellulosic fabrics
7th International Symposium Research and Education in an Innovation Era, 17-20 Mai, **2018**, Arad, Romania.
28. M. Pustianu, **M. Dochia**, S. Gavrilăş, C. Moisă
Biotreatment optimization for a cellulosic/lignocellulosic blended fabric
"Innovative solutions for sustainable development of textiles and leather industry", 25-26 Mai, **2018**, Oradea, Romania.
29. **M. Dochia**, S. Gavrilăş, M. Pustianu, C. Moisă, D. Chambre
Waste water analysis from a new green pretreatment of cotton fabrics
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30. I. Barbu, S. M. Fogorasi, **M. Dochia**, M. Pustianu, A. Bucevschi, D. Farima
A comparative study on the comfort and safety of the seat cover fabrics
“IVth International Congress of Automotive and Transport Engineering”, 17–19 Octombrie, **2018**, Cluj-Napoca, Romania.
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Ecotreatment for hemp/cotton materials to reduce wastewater pollution
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 Characterization of the enzymatically pretreated cellulosic/lignocellulosic woven fabric by FT-IR ATR and TG/DTG analyses
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 Quantification of residual pectin from bioscoured hemp/cotton fabric by FT-IR ATR analysis
 8th International Symposium Research and Education in an Innovation Era, 23-25 Mai, **2019**, Arad, Romania.
34. S. Gavrițaș, A.R. Sărsan, **M. Dochia**, L. Copolovici, D.M. Copolovici, L.N. Lazăr, F.D. Munteanu
 Natural dyes extracted from food by-products with applications for natural fiber dyeing
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VIII. National conferences

1. M. Bucur, C. Sîrghie, **M. Dochia**– UAV Arad, A. Botar– SC Jialex SRL Cluj
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2. C. Sîrghie, **M. Dochia**
Materiale avansate obținute din deșeurile de fibre de in și cânepă prin aplicarea unor procedee speciale ultrasono-enzimatică –catalitice de cotozire - „Materiale textile avansate realizate din fibre inferioare de in prin tehnologii enzimatică” ARAD 29-30 August **2008**.