

# LIST OF PUBLICATIONS

## PhD.Eng. MIHAELA DOCHIA

### ISI ARTICLES and ISI PROCEEDINGS

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1. **M. Dochia**, S. Gavrilaş, 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*  
*16<sup>th</sup> International Multidisciplinary Scientific Geoconference SGEM 2016, Book 6, Nano, Bio and Green-Technologies for a Sustainable Future, Conference Proceedings, Volume III, 2016*, ISBN 978-619-7105-79-7, ISSN 1314-2704, DOI 10.5593/sgem2016HB63, 223-230, *lucrare în curs de indexare*.
2. M. Pustianu, **M. Dochia**, C. Sîrghie, S. Gavrilaş, D. Tomescu  
*Treatment optimization for bioscouring in ultrasound of cotton/cottonised hemp blended fabrics*, 7<sup>th</sup> International Workshop on Soft Computing Applications (SOFA 2016)", 24-26 August 2016, *lucrare în curs de indexare*.
3. 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.
4. A. Sanislav, M. Fogorasi, M. D. Stanescu, S. Muntean, **M. Dochia**  
*Ultrasound Effect on Dyeing Wool Fibers with Two Anthraquinone Dyes*  
*Fibers and Polymers*, 2015, Vol.16, No.1, 62-66.
5. I.V. Iştoc, 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.
6. I. V. Iştoc, **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.
7. **M. Dochia**, M. D. Stănescu, C. Constantin  
*Calcium Content Indicator of Scouring Efficiency*  
*FIBRES & TEXTILES in Eastern Europe*, 2013; 21, 3(99), 22-25.
8. 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
9. M.D. Stănescu, M. Fogorasi, **M. Dochia**, S. Mihauşa, V.I. Lozinsky  
*Biotechnology for Textile Waste Valorization*  
*Revista de Chimie*, 2009, 60, nr.1, 59-62  
ISSN 0034-7752.

## BOOK CHAPTERS

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1. **Handbook of natural fibres, Volume 1: Types, properties and factors affecting breeding and cultivation, Chapter 2 – Cotton fibres**, authors: **M. Dochia**, C. Sîrghie, R.M. Kozłowski, Z. Roskwitalski, **Woodhead Publishing Limited** Publishing House, Series in Textiles, Cambridge, UK, Editor Ryszard M. Kozłowski, **2012**.

## OTHER PUBLICATIONS

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1. **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*  
Analele Universităţii din Oradea, Fascicola Textile&Pielarie, **2016**, vol XVII, p. 91-117, P-ISSN: 1843-813X.
2. 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*  
Analele Universităţii din Oradea, Fascicola Textile&Pielarie, **2016**, vol XVII, p. 89-111, P-ISSN: 1843-813X
3. 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 Universităţii din Oradea, Fascicola Textile&Pielarie, **2014**, vol XV, Nr. 1 p. 93-98, P-ISSN: 1843-813X.
4. **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 Universităţii din Oradea, Fascicola Textile&Pielarie, **2014**, vol XV, Nr. 1 p. 99-102, P-ISSN: 1843-813X.
5. A. Popescu, C. Sîrghie, **M. Dochia**, D. M. Copolovici, L. Chirila  
*Aspects regarding natural dyeing of enzymatically pre-treated cellulosic blended yarns*  
ICAMS **2014** – 5<sup>th</sup> International Conference on Advanced Materials and Systems.
6. I.V. Iştoc, M. Pustianu, A. Bucevschi, **M. Dochia**, C. Sîrghie  
*Study Regarding the Optimization of the Bioscouring Treatment on 100% Cotton Materials*  
Proceedings of the 2<sup>nd</sup> International Conference on Energy and Environment Technologies and Equipment (EEETE '13), Energy, Environmental and Structural Engineering Series, Braşov, România, **1-3 Iunie 2013**, 258-262  
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7. 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*  
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P-ISSN: 1843-813X.
8. **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.
9. M. Pustianu, M. Chindriș, C. Sîrghie, **M. Dochia**  
*Natural dyes in green walnut shells for textile materials dyeing*  
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10. R.M. Kozłowski, W. Konczewicz, R. Kaniewski, **M. Dochia**, M.S Pernevan  
*The methods of degumming bast fibrous plants*  
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11. R.M. Kozłowski, **M. Dochia**, M.S. Pernevan, M. Elena  
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14. M. D. Stănescu, **M. Dochia**, M. Fogorasi, M. Pustianu, M.S. Bucur  
*Enzymes in Cotton Bio-Scouring*  
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15. F.D. Munteanu, **M. Dochia**, C. Sirghie  
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16. **M. Dochia**, M.D. Stanescu  
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17. M.D. Stănescu, M.S. Fogorasi, F. Chiraleu, **M. Dochia**, E. Heine  
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18. M.S. Fogorasi, M.D. Stănescu, **M. Dochia**  
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## INTERNATIONAL AND NATIONAL CONFERENCES

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1. M. Pustianu, **M. Dochia**, C. Sîrghie, S. Gavrițaș, D. Tomescu  
*Treatment optimization for bioscouring in ultrasound of cotton/cottonised hemp blended fabrics*  
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2. M. Bălaș, C. Sîrghie, M. Pustianu, **M. Dochia**, S. Gavrițaș, D. Tomescu  
*Fuzzy Methods Applied on the Control of Textile Biotechnologies – lucrare comunicată*  
7<sup>th</sup> International Workshop on Soft Computing Applications (SOFA 2016)", 24-26 August **2016**.
3. **M. Dochia**, S. Gavrițaș, M. Pustianu, D. Tomescu  
*Physico-chemical parameters of the wastewaters resulted from the bioscouring treatment of the cellulosic/lignocellulosic fabrics – prezentare.*  
A XXXIV-a Conferință Națională de Chimie, 4-7 Octombrie **2016**, Secțiunea 5, pagina 9.
4. **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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5. 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 - poster*  
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6. **M. Dochia**, S. Gavrițaș, M. Pustianu, D. Tomescu, C. Sîrghie, D. M. Copolovici  
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6<sup>th</sup> International Symposium “Research and Education in an Innovation Era”, 8-10 Decembrie **2016**.
7. S. Gavrițaș, **M. Dochia**, M. Pustianu, D. Tomescu  
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15. M.D. Stanescu, M.S. Fogorasi, M.Bucur, M. Pustianu, **M. Dochia**  
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*13<sup>th</sup> International Conference on Chemistry and Chemical Engineering*  
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ISBN 973-652-825-1.

## NATIONAL PATENTS

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*“Bleaching ecological process of natural fibers through catalytic oxidation with polioxometalates compounds”*, patent no. 122728/30.12.2009, Romania.
2. Stănescu Michaela Dina, Cărpuș Eftalea, Fogorasi Magdalena, Popescu Alina, **Dochia Mihaela**, Mihuța Silvia, *“Ecological process for polyester recovery from textile waste polyester/cotton blends”* patent no. 122919/30.04.2010, Romania.

## INTERNATIONAL PATENTS

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2. Sirghie Cecilia, Botar Alexandru, Bodescu Adina Maria, **Dochia Mihaela**, „*Process for peroxy-polyoxomethalates whitening of textile materials (yarns, cloths and knitted fabrics) from cellulosic fiber mixtures such as: flax-cotton, hemp-cotton*”, RO128839-A0 – 30 Septembrie 2013, EP2703553-A1 – 05 March 2014.