

LISTĂ DE LUCRĂRI CS II DR. ING. DOCHIA MIHAELA

I. Articole indexate în reviste cotate ISI Thomson Reuters și în volumele unor manifestări științifice indexate ISI Thomson Reuters.

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2. M. D. Stănescu, **M. Dochia**, M. Fogorasi, M. Pustianu, M.S. Bucur
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U.P.B. Scientific Bulletin Series B: Chemistry and Materials Science, 2010, 72(3), 21-28.
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FIBRES & TEXTILES in Eastern Europe, **2013**; 21, 3(99), 22-25.
5. 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.
6. 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.
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Journal of Natural Fibers, **2015**, 12:4, 378-387.
9. **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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10. M. Pustianu, **M. Dochia**, C. Sîrghie, S. Gavrilaş, D. Tomescu
Treatment optimization for bioscouring in ultrasound of cotton/cottonised hemp blended fabrics
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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.
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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.
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Implementation of image processing techniques as a tool for form analysis of romanian folk elements
Industria Textilă, **2020**, Vol.71, No. 5, 492-498.
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The influence of different vacuum impregnation solutions on the colour of fresh-cut apple slices
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Optical Coherence Tomography versus Microscopy for the Study of Aloe Vera Leaves
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The influence of elevated CO₂ on volatile emissions, photosynthetic characteristics, and pigment content in Brassicaceae plants
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The Impact of Increased CO₂ and Drought Stress on the Secondary Metabolites of Cauliflower (Brassica oleracea var. botrytis) and Cabbage (Brassica oleracea var. capitata)
Plants, **2023**, 12, 3098.
21. R. Kaminszky, D. Avram, M. S. Fogorasi, **M. Dochia**, I. Barbu, A. Popa, A. Bucevschi
Innovative Solution for Reducing Yarns Hairiness on Ring Spinning Machines
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Polymers, **2024**, 16(6), 728.
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II. Articole indexate în alte baze de date internaționale (IDB journals)

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Spectroscopic Tools for Monitoring Enzyme Action in Textile Finishing
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Biodegradation of textile waste based on cotton
DWI Reports, **2007**, 131, P53, ISSN 0942301X.
4. F.D. Munteanu, **M. Dochia**, C. Sirghie
Studies on the stability of a laccase used in ultrasound or in presence of emollient
Analele Universitatii din Oradea, Fascicola Textile&Pielarie, **2007**, vol VIII, 62-67
ISSN 1582-5590.
5. M. Pustianu, M. Chindriş, A. Popa, E.t Airinei, A. Bucevschi, C. Sîrghie, **M. Dochia**
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Analele Universităţii din Oradea, Fascicola Textile&Pielarie, **2013**, vol XIV, nr. 1, 167-170,
P-ISSN: 1843-813X.

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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, Braşov, România, 1-3 Iunie 2013, 258-262, ISSN: 2227-4359, ISBN: 978-1-61804-188-3.
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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
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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, 99-102, P-ISSN: 1843-813X.
9. 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.
10. M. Szabo, **M. Dochia**, M. Lungu
Research study on the dimensional stability of interlock 1:1 knitted fabrics made of cotton yarns
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Part I. study regarding the optimization of the bioscouring treatment in ultrasound on 60 % cotton + 40 % cottonised flax materials
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Analele Universităţii din Oradea, Fascicola Textile&Pielarie, 2016, vol XVII, 91-117, P-ISSN: 1843-813X.
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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.
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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.
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19. **M. Dochia**, S. Gavrilaş, M. Pustianu, C. Moisă, D. Chambre
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20. **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.
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Analele Universităţii din Oradea, Fascicola Textile&Pielarie, **2019**, vol XX, Nr. 2, 39-44. P-ISSN: 1843-813X.
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24. M. Szabo, **M. Dochia**, S. Gavrilaş
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26. **M. Dochia**, D. Chambre
Pectin quantification from cellulosic/lignocellulosic raw materials by FT-IR ATR analysis
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Analele Universităţii din Oradea, Fascicola Textile&Pielarie, **2021**, vol. 22, Nr. 2, 33-38.
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Scientific and Technical Bulletin, Series Chemistry, Food Science & Engineering, **2021**, vol. 18(XIX), 3-9.
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Aspects regarding the behaviour and comfort of reusable wool protective masks in the context of the COVID 19 pandemic
IOP Conference Series: Materials Science and Engineering, Volume 1182, **2021**, 012018,
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III. Articole publicate în reviste neindexate

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Proceedings of the International Symposium „Research and Education in an Innovation Era” – Engineering Sciences, **2008**, pp. 447- 456
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5. F.D. Munteanu, **M. Dochia**, C. Sîrghie
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Possibilities of bonding lignocellulosic materials by enzymatic system
Scientific Bulletin of ESCORENA, Vol. 4, **2012**, pp. 33-41
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Degumming process of flax at industrial pilot scale
Scientific Bulletin of ESCORENA, Vol. 8, **2013**, pp. 09-16
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Scientific Bulletin of ESCORENA, Vol. 8, **2013**, pp. 16-22
ISSN-L 2066-5687, ISSN 2069-8070.
11. 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.

IV. Teza de doctorat

Titlul tezei: **“Aplicarea biotehnologiilor în prelucrarea materiilor prime și a deșeurilor textile cu conținut celulozic”**

Universitatea “POLITEHNICA” din București

Facultatea de Chimie Aplicată și Știința Materialelor.

Coordonator: Prof.Dr.Ing. Michaela Dina Stănescu.

V. Cărți în edituri internaționale

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.

VI. Proprietate intelectuală, brevete de invenție și inovație naționale.

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, Cârpuș Eftalea, Fogorasi Magdalena, Popescu Alina, **Dochia Mihaela**, Mihuța Silvia, **“Procedeu ecologic de recuperare a poliesterului din deseuri textile poliester/bumbac”** Brevet nr. 122919/30.04.2010, Romania.

3. Sîrghie Cecilia, Botar Alexandru, Bodescu Adina Maria, **Dochia Mihaela**, „*Procedeu de albire cu peroxo-polioxometalati a materialelor textile (fire, tesaturi și tricoturi) din amestecuri de fibre celulozice cum ar fi: in-bumbac, canepa-bumbac*” – Brevet nr. 128839A0/04.09.2012, Romania.
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VII. Participări la manifestări științifice internaționale

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.
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Enzymes in Cotton Dyeing
3rd International Conference on Textile Biotechnology, Graz, Austria, 13-16 iunie 2004, P16.
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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Pavoa do Varzim, Portugalia, 11-12 noiembrie 2004.
4. M. D. Stănescu, M.Fogorasi, **M. Dochia**
Enzymatic Treatments of Cotton- Improvement of Properties and Environmental Aspects
DWI Reports, 2006, 130, P8.
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Arad, 03.10.2024

CS II Dr.Ing. Mihaela Dochia