

**LIST OF PUBLICATIONS**  
**PhD.Eng. MONICA PUSTIANU**  
(selection)

**ISI ARTICLES and ISI PROCEEDINGS**

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1. Ionel Barbu, Magdalena Simona Fogorasi, **Monica Pustianu**, Adina Bucevschi, Daniela Farima  
- A Comparative Study on the Comfort and Safety of the Seat Cover Fabrics –  
Proceedings of AMMA - The International Congress of Automotive and Transport  
Engineering, AMMA 2018, file:///C:/Users/User/AppData/Local/Temp/cuprins\_Springer-  
1.pdf, Springer Nature Switzerland AG 2019 N. Burnete and B. O. Varga (Eds.): AMMA  
2018, PAE, 2019. [https://doi.org/10.1007/978-3-319-94409-8\\_50](https://doi.org/10.1007/978-3-319-94409-8_50), 2018, pag. 1–8
2. Mihaela Dochia, **Monica Pustianu**, Cristian Moisă, Dorina Chambre & Simona Gavrilaş,  
*Sodium citrate as an eco-friendly complexing agent for the bioscouring treatment of the  
cellulosic/lignocellulosic fabrics*,  
Chemical Papers, ISSN 2585-7290, Chem. Pap. DOI 10.1007/s11696-018-0455-1, Chemical  
Papers, 24 martie, 2018, Springer, <https://doi.org/10.1007/s11696-018-0455-1>,
3. **Monica Pustianu**, Mihaela Dochia, Simona Gavrilaş, Daniel Tomescu,  
*Comparative Study on Treatment Bioscouring Optimization with and without Ultrasound for  
50 % of Cotton + 50 % of Flax Materials*,  
Advanced Engineering Forum, ISSN: 2234-991X, Vol. 27, pp 111-117 Revised: 2017-05-17,  
[doi:10.4028/www.scientific.net/AEF.27.111](https://doi.org/10.4028/www.scientific.net/AEF.27.111) Accepted: 2017-06-18, © 2018 Trans Tech  
Publications, Switzerland, Online: 2018-04-27
4. **Monica Pustianu**, Mihaela Dochia, Simona Gavrilaş, Daniel Tomescu  
*Study of the efficiency of bioscouring treatment by determination of the residual Ca<sup>2+</sup> from  
flax-cotton fabrics*  
Proceedings of the 17<sup>th</sup> International Multidisciplinary Scientific Geoconference SGEM 2017,  
Nano, Bio, Green and Space-Technologies for a Sustainable Future, Conference  
Proceedings, Volume 17, Issue 61, 2017, p. 1007-1014, ISBN 978-619-7408-12-6, ISSN  
1314-2704, DOI 10.5593/sgem2017/61.
5. Mihaela Dochia, **Monica Pustianu**, Simona Gavrilaş, Daniel Tomescu, Dana Maria  
Copolovici  
*Study of the ultrasound efficiency on bioscouring treatment of hemp - cotton fabrics*  
Proceedings of the 17<sup>th</sup> International Multidisciplinary Scientific Geoconference SGEM  
2017, Nano, Bio, Green and Space-Technologies for a Sustainable Future, Conference  
Proceedings, Volume 17, Issue 61, 2017, p. 1015-1023, ISBN 978-619-7408-12-6, ISSN  
1314-2704, DOI 10.5593/sgem2017/61.
6. 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*  
Proceedings of the 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.

7. **M. Pustianu**, M. Dochia, C. Sîrghie, S. Gavrilaş, D. Tomescu  
***Treatment optimization for bioscouring in ultrasound of cotton/cottonised hemp blended fabrics***  
Proceedings of the 7<sup>th</sup> *International Workshop on Soft Computing Applications (SOFA 2016)*, Volume 2, *Advances in Intelligent Systems and Computing* 634, Springer Publishing, Editors: Valentina Emilia Balăş, Lakhmi C. Jain. Marius Mircea Bălaş, pp. 595-604. doi: 10.1007/978-3-319-62524-9.
8. Bălaş Marius, Sîrghie Cecilia, **Pustianu Monica**, Dochia Mihaela, Gavrilaş Simona, Tomescu Daniel  
***Fuzzy method applied on the control of textiles biotechnologies***  
Proceedings of the 7<sup>th</sup> *International Workshop on Soft Computing Applications (SOFA 2016)*, Volume 2, *Advances in Intelligent Systems and Computing* 634, Springer Publishing, Editors: Valentina Emilia Balăş, Lakhmi C. Jain. Marius Mircea Bălaş, pp. 605-611. doi: 10.1007/978-3-319-62524-9.
9. A. Popa, A. Bucevschi, **M. Pustianu**, L. R. Manea, I. Sandu  
***Mathematic Model of the Spinning Process of a Wool Yarn***  
*Materiale Plastice*, 53, No.2, **2016**, p.316 - 320
10. 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.
11. **M. Pustianu**, A. Bucevschi, A. Popa, E. Airinei  
***Analysis and interpretation of colours characteristics of the dyed samples, based on remission curves,***  
*Studia Universitatis Babeş-Bolyai Chemia*, LVII, 4, **2012**, 183-190.
12. **M. Pustianu**, M.S. Bucur,  
***The correlation between remission dyeing and concentration in the case of system wool-dye acids,***  
*Magazine of chemistry*, **2005**, 7, 746-750, ISSN 0034-7752.
13. M.D. Stanescu, M.S. Bucur, **M. Pustianu**, S. Mihuta, M. Raileanu, R. Sauri, M.R. Julia,  
***A comparative study of two enzyme treatments,***  
*Indian J. Fibre Text. Res.*, 27, **2001**, 408-416

## IDB JOURNALS

---

1. **Pustianu Monica**, Dochia Mihaela, Gavrilaş Simona, Moisă Cristian,  
***Biotreatment optimization for a cellulosic/lignocellulosic blended fabric,***  
*Annals of the University of Oradea, Fascicle of textiles, leatherwork*, 2018, , vol XIX, No. 1. , p.83-88, ISSN: 1843-813X.

2. Dochia Mihaela, Gavrilaş Simona, **Pustianu Monica**, Moisă Cristian, Chambre Dorina, *Waste water analysis from a new green pretreatment of cotton fabrics*, Annals of the University of Oradea, Fascicle of textiles, leatherwork, 2018, , vol XIX, No. 2. , p.37-43, ISSN: 1843-813X.
3. **Pustianu Monica**, Airinei Erszebet, Popa Alexandru, Bucevschi Adina, *Comparative study on different types of knit products using synthetic indicators*, Annals of the University of Oradea, Fascicle of textiles, leatherwork, 2018, , vol XIX, No. 2. , p.85-89, ISSN: 1843-813X.
4. Mihaela Dochia, **Monica Pustianu**, Simona Gavrilaş, Daniel Tomescu, Dana Maria Copolovici  
*Study on the influence of ultrasound in bioscouring treatment of 50 % of flax + 50 % of cotton fabrics*  
Annals of the University of Oradea, Fascicle of textiles, leatherwork, 2017, vol XVIII, No. 1, p. 27-32, P-ISSN: 1843-813X.
5. **Monica Pustianu**, Mihaela Dochia, Simona Gavrilaş, Daniel Tomescu, Dana Maria Copolovici  
*Study on the bioscouring treatment of 50 % of hemp + 50 % of cotton fabrics*  
Annals of the University of Oradea, Fascicle of textiles, leatherwork, 2017, vol XVIII, No. 2, p. 29-34, P-ISSN: 1843-813X.
6. 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.
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*  
Analele Universităţii din Oradea, Fascicola Textile&Pielarie, 2016, vol XVII, p. 89-111, P-ISSN: 1843-813X
8. **Monica Pustianu**, Adina Bucevschi, Alexandru Popa, Erzsebet Airinei,  
*Estimation of colour differences in the case of wool dyeing with natural dyes extracted from green nutshell*,  
Annals of the University of Oradea, Fascicle of Textiles, Leatherwork, vol XVII, 2016, No. 1, ISSN 1843 – 813X, (p. 93 – 98).
9. **M. Pustianu**, A. Bucevschi, A. Popa, E. Airinei,  
*Study about a furniture company that uses new technologies and computerized equipment*,  
Annals of the University of Oradea, Fascicle of Textiles, Leatherwork, vol XVI, 2015, No. 2, ISSN 1843 – 813X, (p. 141 – 146).
10. Ionel Barbu, Adina Bucevschi, **Monica Pustianu**,  
*Good carded means half spinning*  
Annals of the "Constantin Brancusi" University of Târgu Jiu, Engineering Series, 2014, No. 4, ISSN 1842 – 4856, pg. 71- 76.
11. Adina Bucevschi, Ionel Barbu, **Monica Pustianu**, Alexandru Popa, Erzsebet Airinei,

*Some aspects about weaving process optimization*

Annals of the "Constantin Brancusi" University of Târgu Jiu, Engineering Series, **2014**, No. 4, ISSN 1842 – 4856, pg. 76- 83.

12. 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*  
Annals of the University of Oradea, Fascicle of Textiles, Leatherwork, **2014**, vol XV, Nr. 1 p. 93-98, P-ISSN: 1843-813X.
13. 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*  
Annals of the University of Oradea, Fascicle of Textiles, Leatherwork, **2014**, vol XV, Nr. 1 p. 99-102, P-ISSN: 1843-813X.
14. 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 2<sup>nd</sup> 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.
15. M. Pustianu, M. Chindriș, A. Popa, E. Airinei, A. Bucevschi, C. Sîrghie, M. Dochia  
*Study Regarding the Optimization of Wool Dyeing with Natural Dyes Extracted from Green Walnuts Part 1: Determination of the Efficiency of the Dyeing treatment*  
Annals of the University of Oradea, Fascicle of Textiles, Leatherwork, **2013**, vol XIV, 123, P-ISSN: 1843-813X.
16. M. Pustianu, A. Bucevschi, M. Dochia, C. Sîrghie, A. Popa, A. Erzsebet,  
*The Mathematic Model on Research Regarding Wool Dyeing with Natural Dyes Extracted from Green Walnuts,*  
Proceedings of the 2<sup>nd</sup> International Conference on Agricultural Science, Biotechnology, Food and Animal Science (ABIFA'13), **2013**, No.10, ISSN: 2227-4359, ISBN: 978-1-61804-188-3, (p.131-136)
17. M. Pustianu, M. Chindriș, A. Popa, E. Airinei, A. Bucevschi, M. Dochia, C. Sîrghie,  
*Study regarding the optimization of wool dyeing with natural dyes extracted from green walnuts, Part 2: Mathematical model*  
Annals of the University of Oradea, Fascicle of Textiles, Leatherwork, vol XIV, **2013**, No. 1, ISSN 1843 – 813X, (p. 143 – 149),
18. Erzsebet Airinei, Monica Pustianu, Alexandru Popa, Adina Bucevschi,  
*Production Optimisation in a Ready Made Cloths Factory,*  
Annals of the "Constantin Brancusi" University of Târgu Jiu, Engineering Series, **2013**, No. 3, ISSN 1842 – 4856, p. 249- 254.
19. M. Pustianu, A. Bucevschi, A. Popa, E. Airinei,  
*Study on S.W.O.T analysis on one firm in the textile industry to implement new concepts and strategies,*

Annals of the University of Oradea, Fascicle of Textiles, Leatherwork, vol XIII, **2012**, No. 1, ISSN 1843 – 813X, p. 31- 37,

20. A. Popa, **M. Pustianu**, A. Bucevschi, E. Airinei,  
*Program for the design of wool-like fibre receipt*,  
Annals of the University of Oradea, Fascicle of Textiles, Leatherwork, vol XIII, **2012**, No. 1, ISSN 1843 – 813X, p 115 – 119.
21. **M. Pustianu**, A. Popa, I.Barbu, E. Airinei, M. Fogorasi, M. Szabo, A. Bucevschi,  
*Study on SWOT analysis of a textile finishing company that uses new technologies and computerized equipment*  
Annals of the “Constantin Brancusi” University of Targu Jiu, Engineering Series, **2012**, No. 4, ISSN 1842 – 4856, p. 354- 365
22. A. Bucevschi,,A. Popa, **M. Pustianu**, E. Airinei, I. Barbu,  
*About abrasion resistance of fabrics with strategic destination, part I*,  
Annals of the University of Oradea, Fascicle of Textiles, Leatherwork, vol XII, **2011**, No. 1, ISSN 1843 – 813X, p. 40 – 45.
23. A. Bucevschi,,A. Popa, **M. Pustianu**, E. Airinei, I. Barbu,  
*About abrasion resistance of fabrics with strategic destination, part II*,  
Annals of the University of Oradea, Fascicle of Textiles, Leatherwork, vol XII, **2011**, No. 1, ISSN 1843 – 813X, p. 46 – 51
24. **M. Pustianu**, A. Bucevschi, A. Popa, E.Airinei,  
*The elaboration of the dyeing recipes for wool*,  
Annals of the University of Oradea, Fascicle of Textiles, Leatherwork, vol XII, **2011**, No. 1, ISSN 1843 – 813X, p 178 – 182
25. **M. Pustianu**, A. Bucevschi, A. Popa, E.Airinei,  
*Study about quality assurance in textile industry by implementing new concepts and strategies*,  
Annals of the University of Oradea, Fascicle of Textiles, Leatherwork, vol XII, **2011**, No. 2, ISSN 1843 – 813X, p 157 – 162.
26. A.Popa, A.Bucevschi. E.Airinei, **M.Pustianu**, I.Barbu,  
*Consideration about the fabrics breaking elongation for swelling modular system.Part I*,  
Annals of the University of Oradea, Fascicle of textiles-leatherwork, vol XI, pag.42,**2010**, ISSN 1582-5590
27. A.Popa, A.Bucevschi. E.Airinei, **M.Pustianu**, I.Barbu,  
*Consideration about the fabrics breaking elongation for swelling modular system.Part II*,  
Annals of the University of Oradea, Fascicle of textiles-leatherwork, vol XI, pag.43,**2010**, ISSN 1582-5590
28. **M. Pustianu**, M. Fogorasi, A. Bucevschi, A. Popa, E. Airinei,  
*Measurement of textile fibers structural changes during technologic proceses* ,  
Annals of the University of Oradea, Fascicle of textiles-leatherwork, vol XI, p.48-52, **2010**, ISSN 1582-5590
29. **M. Pustianu**, A. Bucevschi, A. Popa, E. Airinei,

*Physic-chemical analysis of binary or ternary fibre waste blends,*  
Annals of the University of Oradea, Fascicle of textiles-leatherwork, vol XI, pag.97,2010,  
ISSN 1582-5590

30. M. D. Stanescu, M. Dochia, M. Fogorasi, **M. Pustianu**, M. Bucur,  
*Enzimes in cotton bio-scouring,*  
U.P.B. Sci. Bull., Series B, Vol. 72, Iss. 3, pag. 21-29, 2010, ISSN 1454-2331
31. **M. Pustianu**, C. Sirghie ,  
*Mathematical modelling of treatments with lacasse in normal conditions of flax fibres,*  
Bulletins of Applied&Computer mathematics, BAM-CXII, 2008, ISSN 0133-3526, no. 2371,p. 181-188,
32. C. Sirghie, **M. Pustianu**,  
*Mathematical modelling of treatments with lacasse in ultrasound conditions of flax fibres,*  
Bulletins of Applied&Computer mathematics, BAM-CXII, 2008, ISSN 0133-3526, no. 2372,  
p. 189-186,
33. **M. Pustianu**, C. Sirghie,  
*Mathematical modelling of the flax fibres enzymatic cottonisation process in ultrasound conditions with pectinases,*  
Scientific and Technical Bulletin, Series CHEMISTRY, FOOD SCIENCE & ENGINEERING Year XIV, Vol. 13, 2007, ISSN 1582-1021, p.11-19
34. **M. Pustianu**  
*Elaborarea rețetelor de vopsire a lânii prin procedeul Derby,*  
Revista Industria Textila, 2006, 1, pp. 28-31, ISSN 1222-5347 (1-72)
35. M.D.Stanescu, M.S. Bucur, **M. Pustianu**, S. Mihuta, M. Raileanu,  
*Modifying of Dyeing Properties with Immobilized Enzymes,*  
DWI Reports, Aachener, GERMANIA 2002, pp. 465-468, ISSN 0942301x
36. **M. Pustianu** , R. Butnaru, E.L. Pușcaș,  
*Verificarea experimentală a teoriei Kubelka – Munk în condițiile vopsirii fibrelor de lână cu coloranți acizi,*  
Revista Română de Textile – Pielărie, 2002, 3-4, pp. 62-66, 5 pg.ISSN 1453-5424.

## OTHER PUBLICATIONS

---

1. **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
2. Mircea Bucur, Nicolae Dinca, Cecilia Sarghie, Monica Szabo, **Monica Pustianu**, L. Van Langenhofe, Ph. Westbroek,  
*Flax lignin oxidation with laccase in the presence of mediators,*

- Scientific and Technical Bulletin Textile Science, **2006**, vol.12, No.1, pp. 22-35, ISSN 1454-8917.
3. Mircea Bucur, Nicolae Dinca, Cecilia Sarghie, Monica Szabo, **Monica Pustianu**, L. Van Langenhofe, Ph. Westbroek,  
*Monitoring of flax fibers enzymatic cottonizing process*,  
Scientific and Technical Bulletin, Textile Science, **2006**, vol.12, No.1, pp.223-229, ISSN 1454-8917.
  4. **M.Pustianu**,  
*Vopsirea lanii cu coloranti naturali*,  
Scien. and Techn. Bull. Textile Science **2005**,1 , vol.11, No.1, pp. 41-50, ISSN 1454-8917.
  5. **M.Pustianu**,  
*Interpretarea calitativă a interacțiunii dintre trei coloranți acizi*  
\_Scien. and Techn. Bull. Textile Science **2004**,1 , vol.10, pp. 52-56, ISSN 1454-8917.
  6. M.D. Stanescu, M. Fogorasi, M.S. Bucur, **M. Pustianu**, M. Dochia  
*Enzymes in Cotton Bioscouring*,  
Proceedings of the 13<sup>h</sup> Romanian International Conference Chemistry and Chemical Engineering , September **2003** BUCHAREST Romania, Vol 3, pp. 43-48, ISBN 973-652-825-1,
  7. M. Bucur, M.D.Stanescu, **M. Pustianu**, S. Mihuta,  
*The Application of Spectroscopy in Enzymatic Treatments*,  
Scien. and Techn. Bull. Textile Science **2002**, 8, pp. 33-41, ISBN 1454-8917
  8. **M. Pustianu** , R. Butnaru, E.L. Puscas ,  
*Verificarea experimentală a teoriei Kubelka-Munk în condițiile vopsirii fibrelor de lână cu coloranți acizi*,  
Proceedings of The XII-th Textile and Leather Romanian Conference, October **2002**, Iasi, pp.37-43, 7 pg., ISBN 973-8075-48-3,
  9. **M. Pustianu** , E.L. Puscas, R. Butnaru,  
*Procedeele Rohner de calcul prealabil al rețetelor de vopsire aplicat sistemului tinctorial lână coloranți acizi*  
Proceedings of The XII-th Textile and Leather Romanian Conference, October **2002**, Iasi, pp.43-52, ISBN 973-8075-48-3,
  10. **M. Pustianu**, R. Butnaru, M. Bucur,  
*The mathematical modeling of dyeing with reactive dyestuffs*,  
Scientific and Technical Bulletin, Textile Science, **2000**, 1, vol.6, pp. 40-48, ISSN 1454-8917.
  11. M. Fogorasi, M.D.Stanescu, E.L. Puscas, **M. Pustianu**,  
*Fibrele lyocell-proprietati si influenta proceselor de finisare asupra fibrilatiei*,  
Buletin Stiintific al Universitatii "Lucian Blaga", din Sibiu, **1998**, vol I, pp.319-326, ISBN 973-9280-96-x.
  12. E.L. Pușcaș, S. Mihața, **M. Pustianu**,  
*Diferențe de culoare exprimate în termeni de coloristică textilă*,

Buletin Științific al Universității “Lucian Blaga”, din Sibiu, **1998**, vol I, pp. 373-380, ISBN 973-9280-96-x.

13. **M. Pustianu**, M. S. Fogorași, E.L. Pușcaș,  
*Aplicarea teoriei și măsurării culorii la tehnologia tinctorială a fibrei de lână*,  
Buletin Științific al Universității “Lucian Blaga”, din Sibiu, **1998**, vol I, pp. 311-318, ISBN 973-9280-96-x

## BOOK

---

1. I.Deac, **M.Pustianu**,  
Calandre pentru finisarea materialelor textile, Ed. Universitatii “Aurel Vlaicu”, Arad, **2015**, ISBN 978-973-752-730-1, (203 pg).
2. **M.Pustianu**,  
Teoria și măsurarea culorii aplicată la materialele textile, Ed. Universitatii “Aurel Vlaicu”, Arad, **2008**, ISBN 978-973-752-225-2, (130pg).
3. **M. Pustianu**, C.Sirghie,  
*Calitatea produselor textile*, Ed. Universității Aurel Vlaicu, Arad, **2007**, ISBN 978-973-752-196-5, (115 pg.)
4. **M. Pustianu**, M.S Bucur,  
*Finisarea produselor textile – Îndrumar de laborator*, Ed. Universitatii “Aurel Vlaicu”, Arad, **2004**, ISBN 973-8363-60-8, (104 pg), (75 pg.).
5. **M. Pustianu**,  
*Finisarea produselor textile*, Ed. Mirton, Timisoara, **2004**, ISBN 973-661-513-8, (210 pg.).
6. M.D. Stănescu, E.L. Pușcaș, **M. Pustianu**,  
*Elemente de ecologie și ecotoxicologie textilă*, Ed. Mirton, Timisoara, **2002**, ISBN 973-585-788-X, (214 pg.), (100 pg.).
7. M.D. Stănescu, **M. Pustianu**, M. Fogorași,  
*Coloranți și auxiliari organici. Principii - Aplicații - Ecologie*, Ed. Universitatii “Aurel Vlaicu”, Arad, **2002**, ISBN 973-8363-05-5, (192 pg.), (100 pg.).
8. M.D. Stănescu, **M. Pustianu**, M. Fogorași.  
Coloranți și auxiliari organici - Îndrumar de laborator, Ed. Universitatii “Aurel Vlaicu”, Arad, **1999**, ISBN 973-9361-42-0, (170 pg), (70 pg.).
9. C. Popescu, **M. Pustianu**,  
Finisajul și albitoria textilă , Ed. Universității “ A.Vlaicu” Arad, 1999, ISBN: 973–9361-41-2, ( 284 pg.), (150 pg.).

## BOOK CHAPTERS

---



1. Mihaela Dochia, **Monica Pustianu**  
**Chapter 1 "Cotton dominant natural fibre: production, properties and limitations in its production"** in **Natural fibers: properties, mechanical behavior, functionalization and applications**, pp. 1-15, *Nova Science Publishers, Inc. New York, Editors Ryszard M. Kozlowski and Malgorzata Muzyczek*, 2017.

## INTERNATIONAL AND NATIONAL CONFERENCES

---

1. Mihaela Dochia, Simona Gavrițaș, **Monica Pustianu**, Cristian Moisă  
*Characterization of waste waters from different bioscouring technologies for cotton materials*  
"Environment & Progress" Symposium, 10 November, 2017, Cluj-Napoca, Romania.
2. Simona Gavrițaș, Mihaela Dochia, Cristian Moisă, **Monica 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.
3. Mihaela Dochia, Simona Gavrițaș, **Monica Pustianu**, Daniel Tomescu  
*Sodium Citrate as a New Possible Complexing Agent for the Bioscouring Treatment of the Cellulosic/Lignocellulosic Fabrics.*  
20<sup>th</sup> Romanian International Conference on Chemistry and Chemical Engineering, 6-9 September, 2017, Poiana Brașov, Romania.
4. Simona Gavrițaș, Mihaela Dochia, **Monica Pustianu**, Cristian Moisă, Dorina Chambre  
*Influence of the bioscouring complexing agents on the thermal degradation of cotton fabrics*  
CEEC-TAC4-4<sup>th</sup> Central and Eastern European Conference on Thermal Analysis and Calorimetry, 28-31 August, 2017, Chișinău, Republica Moldova, Abstracts book p. 169.
5. Mihaela Dochia, Simona Gavrițaș, **Monica Pustianu**, Daniel Tomescu, Dorina Chambre  
*Influence of the ultrasound on the thermal behaviour of flax-cotton fabrics during the bioscouring treatment.*  
CEEC-TAC4-4<sup>th</sup> Central and Eastern European Conference on Thermal Analysis and Calorimetry, 28-31 August, 2017, Chișinău, Republica Moldova, Abstracts book p. 471
6. Mihaela Dochia, **Monica Pustianu**, Simona Gavrițaș, Daniel Tomescu, Dana Maria Copolovici  
*Study of the ultrasound efficiency on bioscouring treatment of hemp - cotton fabrics*  
17<sup>th</sup> International Multidisciplinary Scientific Geoconference SGEM 2017, Nano, Bio, Green and Space-Technologies for a Sustainable Future, 27 June-06 July, 2017, Albena, Bulgaria.
7. **Monica Pustianu**, Mihaela Dochia, Simona Gavrițaș, Daniel Tomescu  
*Study of the efficiency of bioscouring treatment by determination of the residual Ca<sup>2+</sup> from flax-cotton fabrics*  
17<sup>th</sup> International Multidisciplinary Scientific Geoconference SGEM 2017, Nano, Bio, Green and Space-Technologies for a Sustainable Future, 27 June-06 July, 2017, Albena, Bulgaria.

8. Mihaela Dochia, **Monica Pustianu**, Simona Gavrilaş, Daniel Tomescu, Dana Maria 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.
  
9. **Monica Pustianu**, Mihaela Dochia, Simona Gavrilaş, Daniel Tomescu, Dana Maria Copolovici  
***Study on the bioscouring treatment of 50 % of hemp + 50 % of cotton fabrics***  
 "Innovative solutions for sustainable development of textiles and leather industry", 26-27 May, **2017**, Oradea, Romania.
  
10. S. Gavrilaş, M. Dochia, **M. Pustianu**, D. Tomescu  
***Calcium spectrophotometric determination from flax-cotton fabrics after bioscouring treatment***  
 6<sup>th</sup> International Symposium "Research and Education in an Innovation Era", 8-10 December, **2016**, Arad Romania, abstracts book p. 24.
  
11. M. Dochia, S.Gavrilaş, **M.Pustianu**, D. Tomescu, C.Sîrghie, D. M. Copolovici  
***Determination of the residual pectin from a bioscoured flax/cotton fabric using Ruthenium Red method***  
 6<sup>th</sup> International Symposium "Research and Education in an Innovation Era", 8-10 December, **2016**, Arad Romania.
  
12. **M.Pustianu**  
***Hemp for future viable alternative,***  
 6<sup>th</sup> International Symposium "Research and Education in an Innovation Era", 8-10 December, **2016**, Arad Romania.
  
13. **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***  
 "4<sup>th</sup> International Conference Advances in Engineering & Management - ADEM", 17-18 November, **2016**, Drobeta-Turnu Severin, Romania.
  
14. 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***  
 "SGEM Vienna GREEN 2016 Scientific Conference", 02-05 November, **2016**, Vienna, Austria.
  
15. M. Dochia, S. Gavrilaş, **M.Pustianu**, D.Tomescu  
***Physico-chemical parameters of the wastewaters resulted from the bioscouring treatment of the cellulosic/lignocellulosic fabrics***  
 A XXXIV-a Conferință Națională de Chimie, 4-7 October, **2016**, Căciulata, Romania, Secțiunea 5, pagina 9.
  
16. **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, Arad, Romania.
17. M. Bălaș, C. Sîrghie, **M. Pustianu**, M. Dochia, S. Gavrițaș, D. Tomescu  
*Fuzzy Methods Applied on the Control of Textile Biotechnologies*  
7<sup>th</sup> International Workshop on Soft Computing Applications (SOFA 2016)", 24-26 August 2016, Arad, Romania.
  18. M. S. Fogorasi, **M. Pustianu**  
*Textile Fibers – Development and Application*  
International Symposium Research and Education in an Innovation Era, Textile Session: Textile Engineering, 6-7 November 2014, “Aurel Vlaicu” University of Arad, Romania
  19. **M. Pustianu**, A. Bucevschi,  
*Studiu privind toxicologia și ecotoxicologia*,  
Simpozionul Internațional de Ecologie - Verde înseamnă viață, Editia a II-a, Iași, 2012, ISBN 978-606-576-675-4 (Premiul II)
  20. **M. Pustianu**, A. Popa,  
*Studiu privind valorificarea deșeurilor textile în geotextilele*,  
Simpozionul Internațional de Ecologie - Verde înseamnă viață, Editia a II-a, Iași, 2012, ISBN 978-606-576-675-4 (Premiul I)
  21. A. Popa, **M. Pustianu**, E. Airinei, A. Bucevschi,  
*Calculation of the Characteristics of Fibrous Mixtures in the Spinning of Wool* ,  
International Symposium Research and Education in Innovation Era, 4 th Ed., Section Engineering, Arad, 8-9 nov.,2012, pag.150-155, ISSN 978-973-752-110-1
  22. A. Bucevschi, **M. Pustianu**, E. Airinei, A. Popa,  
*Analy-sis on Quality of Yarns from Mixtures of Cotton and Bast Fibres* ,  
International Symposium Research and Education in Innovation Era, 4 th Ed., Section Engineering, Arad, 8-9 nov.,2012, pag.156-161, ISSN 978-973-752-110-1
  23. E. Airinei, A. Bucevschi, A. Popa, **M. Pustianu**,  
*Mathematical Model for a Plated Single Jersey Knit*,  
International Symposium Research and Education in Innovation Era, 4 th Ed., Section Engineering, Arad, 8-9 nov.,2012, pag pag.162-167, ISSN 978-973-752-110-1
  24. **M. Pustianu**, A. Bucevschi, A. Popa, E. Airinei, M. Fogorasi, I. Barbu, M. Szabo ,  
*Qualitative Interpretation of Interaction between Existing Dyes in the Case of the Wool Dyeing Materials* ,  
International Symposium Research and Education in Innovation Era, 4 th Ed., Section Engineering, Arad, 8-9 nov.,2012, pag.168-178, ISSN 978-973-752-110-1
  25. **M. Pustianu**, A. Bucevschi,  
*Sisteme ecologice complexe*,  
Simpozionul Internațional de Ecologie - Verde înseamnă viață, Editia I-a, Iași, 2011, ISBN 978-606-576-665-5 (Premiul I)
  26. **M. Pustianu**, A. Popa,  
*Ecologia moderna* ,

Simpozionul Internațional de Ecologie - Verde înseamnă viață, Editia I-a, Iași, 2011, ISBN 978-606-576-665-5 (Premiul I)

27. **Monica Pustianu**, Magdale na Fogorasi, Adina Bucevsch i, Popa Alexandr u, Erzsebet Airinei,  
*Qualitative analyses of fibers structure during technologic proceses*,  
International Symposium Research and Education in Innovation Era, 3 th Ed., Section Textile Engineering, Arad, 10-12 nov., 2010, pag. 291- 295, ISSN 1842-9718
28. Magdalena Fogorasi, **Monica Pustianu**, Adina Bucevsch i, Popa Alexandr u, Erzsebet Airinei, I  
*Qualitative assessment of fibers structure changes during technologic proceses*,  
International Symposium Research and Education in Innovation Era, 3 th Ed., Section Textile Engineering, Arad, 10-12 nov., 2010, pag. 296- 300, ISSN 1842-9718
29. Popa Alexandru, Adina Bucevsch i, Erzsebet Airinei, Ionel Barbu, **Monica Pustianu**,  
*The parameters influence about the breaking elongation of fabrics*,  
International Symposium Research and Education in Innovation Era, 3 th Ed., Section Textile Engineering, Arad, 10-12 nov., 2010, pag. 307- 312, ISSN 1842-9718
30. **Monica Pustianu**, M. Fogorasi, Popa Alexandr u, Ionel Barbu, Erzsebet Airinei, Adina Bucevsch  
*Măsurarea modificărilor structurale ale fibrelor textile pe parcursul prelucrării tehnologice*  
Proceedings of the textile conference „ZERO WASTE – strategic direction for a durable cociety”, „Aurel Vlaicu” University of Arad, 2008, p. 70- 81, ISBN 978-973-752-266-5
31. Mircea Bucur, Nicolae Dinca, Cecilia Sarghie, Monica Szabo, **Monica Pustianu**, L. Van Langenhofe, Ph. Westbroek,  
*Monitoring of flax fibers enzymatic cottonizing process*,  
International Symposium Research and Education in Innovation Era, Section 3, Engineering Processes and Technology, Textiles, Arad, 16-18 November 2006, ISBN 978-973-752-110-1, pag. 223-229
32. **M.Pustianu**, I.Deac,  
*Efecte ecologice ale coloranților și auxiliarilor utilizați în finisarea materialelor textile*,  
Simpozionul Științific Internațional „Impactul ecologic al tehnologiilor și produselor din domeniul textile – pielărie” Universitatea din Oradea împreună cu AGIR – Filiala Bihor, 11-13 noiembrie 2004, pp.217-224, 8 pg.,
33. I.Deac, **M.Pustianu**,  
*Rezultate practice obținute în prelucrarea materialelor recuperabile utilizând tehnologii și utilaje românești*,  
Simpozionul Științific Internațional „Impactul ecologic al tehnologiilor și produselor din domeniul textile – pielărie” Universitatea din Oradea împreună cu AGIR – Filiala Bihor, 11-13 noiembrie 2004, pp.225-228, 4 pg,
34. M. Bucur, N. Dincă, C. Sârghie, M.Szabo, **M.Pustianu**, P. Westbroec, K.Declerk,  
*Improvement of flax cottonization by ultrasonic – enzymatic treatment with complexing agents*,

- Simpozion COST 847 & D32, Pova de Varzim, PORTUGALIA, 11-12 noiembrie **2004**, p.48,
35. M.D. Stanescu, M. Fogorasi, M.S. Bucur, **M. Pustianu**, S. Mihuta, M. Dochia  
***Influence of Reaction Parameters on Cotton Bioscouring,***  
*Simpozionul EU COST 847 "Textile Biotechnology and Quality,* WG4, WG5, Pavao do Varzim, Portugalia, 11-12 noiembrie **2004**.
  36. **M.Pustianu**, M. Bucur, C.Sârghie,  
***Applying of Kubelka-Munk theory to the acid dyestuff dyeing of wool,***  
31<sup>st</sup> AACHEN TEXTILE CONFERENCE, GERMANIA, 24-25 november , **2004**, p.124,
  37. **M.Pustianu**,  
***Apresiasi diferentelor de culoare între vopsirile din băi cu concentrații diferite, pe baza curbelor de remisie,***  
Analele Universitatii "Aurel Vlaicu" Arad, Seria Textile, **2004**, pp. 92-98, 7 pg. ISSN 1582 – 3431.
  38. M.S.Bucur, N. Dincă, C. Sârghie, M. Szabo, **M.Pustianu**, P. Westbroec, K.Declerk,  
***Influenta complexanților în cotonizarea enzimatică în ultrasunete a fibrelor de in,***  
Analele Universitatii "Aurel Vlaicu" Arad, Seria Textile, **2004**, pp. 9-17, 9 pg, ISSN 1582 – 3431.
  39. M.D. Stanescu, M. Fogorasi, M.S. Bucur, **M. Pustianu**, M. Dochia,  
***Enzymes in Cotton Bioscouring,***  
Proceedings of the 13<sup>h</sup> Romanian International Conference Chemistry and Chemical Engineering, September **2003** BUCHAREST Romania, Vol 3, pp. 43-48, 6 pg., ISBN 973-652-825-1
  40. **M. Pustianu** , E.L. Puscas, R. Butnaru,  
***Calculul prealabil al retetelor de vopsire prin procedeul Derby aplicat in cazul vopsirii lanii cu coloranti acizi,***  
Analele Universitatii „Aurel Vlaicu” Arad, Seria Textile **2002**, pp.143-151, 9 pg.,ISSN 1582-3431.
  41. M.D. Stanescu, **M. Pustianu**,  
***Ecotoxycology a New Science,***  
Analele Universitatii „Aurel Vlaicu” Arad, Seria Textile **2002**, pp. 63-68, 6 pg., ISSN 1582-3431
  42. C. Popescu, M. Szabo, M. Bucur, **M. Pustianu**,  
***Invariant kinetic parameters of dyeing for Controlling the dyeing process,***  
8<sup>th</sup> European Symposium on Thermal Analysis and Colorimetry, Barcelona, SPANIA, aug.28-29, **2002**, p.55
  43. E.L. Pușcaș, **M. Pustianu**, M. S. Fogorași,  
***Kinetisc of wool dyeing,***  
2<sup>nd</sup> International Conference of the Chemical Societies of the South Eastern European Countries on Chemical Sciences for Sustainable Development, 6-9 June, **2000**, Halkidiki, GREECE, PO 462, p. 97

44. **M. Pustianu**, E.L. Pușcaș,  
*Teoria Kubelka-Munk, un instrument eficient pentru elaborarea rețetelor de vopsire a lânii*,  
Analele Universitatii „A. Vlaicu” Arad, Seria Textile, **2000**, pp. 283-288, 6 pg., ISSN 1582-3431.
45. **M. Pustianu**,  
*Modelarea matematica a cercetarilor privind cresterea capacitatii tinctoriale si imbunatatirea rezistentelor vopsirilor obtinute cu coloranti acizi*,  
Analele Universitatii „A. Vlaicu” Arad, Seria Textile, **2000**, pp. 276-282, 7 pg., ISSN 1582-3431.
46. I.Deac , E.L. Pușcaș, **M. Pustianu**, M.Fogorași,  
*Factori de influență în obținerea textilelor competitive*,  
Seminarul Societății Chimistilor Coloriști din România, Arad, 17 noiembrie **1998**.
47. E.L. Pușcaș, **M. Pustianu**,  
*Corelația între diferențele de culoare percepute vizual și valorile calculate din datele măsurate instrumental*,  
Simpozionul III Internațional Universitar Chișinău, **1998**.
48. **M. Pustianu**  
*Corelația între structura fibrelor de lână și comportarea lor tinctorială*,  
Lucrările Sesiunii de Comunicări Științifice a Universității “ A.Vlaicu” Arad, 25 de ani de învățământ tehnic superior arădean, 30-31 octombrie **1997**, vol. VI, pp. 228-232, 5 pg., ISBN 973-98365-0-x, ISBN 973-98365-6-9.
49. **M. Pustianu**,  
*Procedee de vopsire a lânii la temperaturi joase*,  
Lucrările Sesiunii de Comunicări Științifice a Universității “ A.Vlaicu” Arad, 25 de ani de învățământ tehnic superior arădean, 30-31 octombrie **1997**, vol VI, pp. 214-221, 8 pg., ISBN 973-98365-0-x, ISBN 973-98365-6-9.
50. E.L. Puscas, M.S.Fogorasi, **M. Pustianu**,  
*Aprecierea metameriei la vopsirea materialelor textile*,  
Lucrările Sesiunii de Comunicări Științifice a Universității “ A.Vlaicu” Arad, 25 de ani de învățământ tehnic superior arădean, 30-31 octombrie **1997**, vol. VI, pp. 1-9, 9 pg., ISBN 973-98365-0-x, ISBN 973-98365-6-9.
51. A.Popa, M. Ghiorgiu, **M. Rus (Pustianu)**,  
*Modernizări în sistemele de pregătire în vederea filării din filatura de lână pieptănată*,  
Lucrările Sesiunii de Comunicări Științifice a Universității “ A.Vlaicu” Arad, Realizări Tehnice și Cultural Științifice pe Meleaguri Arădene, 5-6 mai **1994**, pp. 233-238, 6 pg.
52. M. Ghiorghiu, A. Popa, **M. Rus (Pustianu)**,  
*Mașini de țesut neconvenționale moderne*  
Lucrările Sesiunii de Comunicări Științifice a Universității “ A.Vlaicu” Arad, Realizări Tehnice și Cultural Științifice pe Meleaguri Arădene, 5-6 mai **1994**, pp. 226-229, 4 pg.
53. M. Ghiorgiu, A. Popa, **M. Rus (Pustianu)**,  
*Îmbunătățirea parametrilor de calitate la țesăturile tip lână*,

Lucrările Sesiunii de Comunicări Științifice a Universității “A.Vlaicu” Arad, Realizări Tehnice și Cultural Științifice pe Meleaguri Arădene, 5-6 mai **1994**, pp. 230-232, 3 pg.

54. **M. Rus (Pustianu)**, A. Popa, M. Ghiorghiu,  
***Microfibrele și aplicațiile lor,***  
Lucrările Sesiunii de Comunicări Științifice a Universității “ A.Vlaicu” Arad, Realizări Tehnice și Cultural Științifice pe Meleaguri Arădene, 5-6 mai **1994**,pp. 216-220, 5 pg.