

LISTĂ LUCRĂRI

a) **Teza de doctorat intitulată:** *“Contribuții privind diversificarea sortimentului de produse tip bumbac prin introducerea de amestecuri noi cu conținut de in”*

b) **Brevete de invenție**

A. Naționale.

- 1) **SÎRGHIE CECILIA**, BOTAR ALEXANDRU, BOTAR BOGDAN, CRĂCIUN GRIGORE. ”PROCEDEU DE ALBIRE A PULPEI DE CELULOZĂ OBTINUTĂ DIN FIBRE NATURALE CELULOZICE, PRIN OXIDARE CATALITICĂ CU POLIOXOMETALAȚI”, PATENT RO NR. 00122817/02.2010.
- 2) **SÎRGHIE CECILIA**, BOTAR ALEXANDRU, DINCA NICOLAE, CRACIUN GRIGORE, DOCHIA MIHAELA, „PROCEDEU ECOLOGIC DE ALBIRE A FIBRELOR NATURALE PRIN OXIDARE CATALITICA CU POLIOXOMETALATI” BREVET DE INVENȚIE NR. 122728 /2009
- 3) POPA NICULINA, DOINA FELICIA TURCU, **SÎRGHIE CECILIA**, “ FIBRE DIN POLIPROPILENĂ MODIFICATĂ CU POLIMERI NATURALI ȘI PROCEDEU DE OBTINERE A ACESTORA” BREVET DE INVENȚIE – NR. 120278/2005 ROMANIA.
- 4) **SÎRGHIE CECILIA**, POPA NICULINA, DOINA FELICIA TURCU, “ FIBRE FINE DIN DESEURI DE FIBRE LIBERIENE SI METODE DE OBTINERE A ACESTORA”. BREVET DE INVENȚIE – NR. B1 119961/2005 ROMANIA.
- 5) **SÎRGHIE CECILIA**. “O NOUĂ METODĂ DE OBTINERE A FIRELOR AMESTEC IN-BUMBAC PE TEHNOLOGII DE BUMBAC CARDAT”. BREVET DE INVENȚIE __NR. 112037 /1997.
- 6) **SIRGHIE C.** [RO]; BOTAR ALEXANDRU [RO] ±, PROCESS FOR FUNCTIONALIZING CELLULOSE-CONTAINING TEXTILE MATERIALS () SUCH AS : COTTON, HEMP, LINEN, RAMIE, NETTLE, ETC AND VARIOUS MIXTURES OF SUCH FIBRES, RO128764
- 7) **SIRGHIE C.**[RO]; BOTAR ALEXANDRU [RO]; BODESCU ADINA MARIA [RO]; DOCHIA MIHAELA [RO] ± PROCESS FOR PEROXO-POLYOXOMETHALATES WHITENING OF TEXTILE MATERIALS () FROM CELLULOSIC FIBER MIXTURES SUCH AS: FLAX-COTTON, HEMP-COTTON, RO128839
- 8) **SIRGHIE C.** [RO]; RADU DANA GINA [RO]; MUNTEANU FLORENTINA DANIELA [RO]; PAG ANDREEA [RO]; DOCHIA MIHAELA [RO]; TOMESCU DANIEL [RO] ±, PROCESS FOR MELTING BAST FIBER PLANTS, SUCH AS: FLAX, HEMP, JUTE ETC., RO128837
- 9) RO 133182 B1, LINIE integrată de topire-epurare pentru prelucrarea tulpinilor de cânepă., RADU D.G.; SIRGHIE C.;KOMJATY A.; MAXI R.; PATRUT I.;
- 10) RADU DANA GINA [RO]; DICU ANCA MIHAELA [RO]; **SÎRGHIE C.**[RO]; DIACONESCU DANIELA-MARIA [RO]; POPESCU MITROI IONEL [RO] ±, SUSTAINABLE METHOD OF ECOLOGICALLY PACKING ADDITIVE-FREE TRADITIONAL BREAD LOAF OF 1-4 KG, RO132866 (B1)

CERERI DE BREVETE

- 1) **SIRGHIE C.** [RO]; RITI MIHOC EMIL [RO]; RADU DANA GINA [RO]; MAXI RODICA [RO]; PASAT SORIN [RO]; PATRUT IONEL [RO]; POMAGA

B. Internaționale

A) CERERE DE BREVET EPO: PROCESS FOR MELTING BAST FIBER PLANTS, SUCH AS: FLAX, HEMP, JUTE ETC CONSISTS IN TREATING THE STEMS WITH A MIXED INOCULUM OF MICROORGANISMS FROM A SUBLAYER OF FRUIT WASTES AND A BAKERY YEAST, PATENT NUMBER(S): RO128837-A0, SÎRGHIE C, RADU D G, MUNTEANU F D, PAG A, DOCHIA M, TOMESCU D, DERWENT PRIMARY ACCESSION NUMBER: 2013-Q10123 [68].

B) CERERE DE BREVET EPO: PROCESS FOR PEROXO-POLYOXOMETHALATES WHITENING OF TEXTILE MATERIALS (YARNS, CLOTHS AND KNITTED FABRICS) FROM CELLULOSIC FIBER MIXTURES SUCH AS: FLAX-COTTON, HEMP-COTTON, PATENT NUMBER(S): RO128839-A0, SÎRGHIE C, BOTAR A, BODESCU A M, DOCHIA M, DERWENT PRIMARY ACCESSION NUMBER: 2013-Q10121 [66].

C) CERERE DE BREVET EPO : PROCESS FOR FUNCTIONALIZING CELLULOSE-CONTAINING TEXTILE MATERIALS (FIBERS, YARNS, WOVEN AND KNITTED FABRICS) SUCH AS : COTTON, HEMP, LINEN, RAMIE, NETTLE, ETC AND VARIOUS MIXTURES OF SUCH FIBRES, PATENT NUMBER(S): RO128764-A0, SIRGHIE C, BOTAR A, ,DERWENT PRIMARY ACCESSION NUMBER: 2013-N35992 [62].

c) Cărți și capitole în cărți.

În edituri recunoscute CNCSIS

1. Cecilia Sîrghie "Filarea fibrelor liberiene în amestecuri cu fibre de bumbac", Editura Universității "Aurel Vlaicu" din Arad, ISBN 978-973-752-230-6, 114 pag, 2008. Studiu în domeniul tezei de doctorat. Editor.
2. Andrei Berteau, Demetra Bordeianu, Romen Butnaru, Viorica Papghiuc, Mariana Ursache, Cecilia Sîrghie, Leeva van Langenhove, Johanna Lowagie."Direcții noi de dezvoltare și managementul calității în Textile – Nequatex", Editura PERFORMANTICA Institutul Național de invenție IAȘI, ISBN 978-973-739-357-8, pag. 96-192, 400 pag, 2007. autor de capitol.
3. Monica Pustianu, Cecilia Sîrghie, "Calitatea Produselor Textile", Editura Universității "Aurel Vlaicu" din Arad, ISBN 978-973-752-196-5, 115 pag, 2007. autor de capitol.
4. Cecilia Sîrghie, Florentina Costache, Alexandru Popa, Adina Bucevschi, Mircea Bucur, Monica Szabo, Daciana Leucea Ilica, "Micro- Nano- Biomateriale cu aplicații în Textile Medicale", Editura Universității "Aurel Vlaicu" din Arad, ISBN 978-973-752-191-0, 201 pag, 2007. membru colectiv de autori. Editor.

În edituri internaționale

5. 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.
6. Polymers, Composites and Nanocomposites și co-autor la Capitolul 7 – Physical Principles of the Conductivity of Electrical Conducting Polymer Composites (Review), J.N. Aneli, G.E. Zaikov, O.V. Mukbaniani and Cecilia Sîrghie, Editura Nova Science Publishers, Inc. New York, pag. 65-89, 2011. AUTOR si editor: (GE. Zaikov, C. Sîrghie, RM Kozlowski Editors,

Polymer Yearbook, 2011, Polymers, Composites and Nanocomposites Editura Nova Science Publishers, Inc. New York, 253 pag. 2011.)

7. AM Dicu, MM Balas, **C Sîrghie**, D Radu, C. Mnerie, Assessing the quality of bread by fuzzy weights of sensory attributes, Chapter, Advances in Intelligent Systems and Computing, 2021.

d) Articole/studii în extenso publicate în reviste din fluxul științific internațional principal. (ISI) .

1. Assessing the Quality of Bread by Fuzzy Weights of Sensory Attributes, Anca M. Dicu, Marius Mircea Balas, Cecilia Sîrghie, Dana Radu & Corina Mnerie, Conference paper, First Online: 15 August **2020**, pp 403–411, Print ISBN 978-3-030-51991-9, Springer Publishing.
2. M. Bălaș, C. Sîrghie, M. Pustianu, M. Dochia, S. Gavrilăș, D. Tomescu. Fuzzy Method Applied on the Control of Textiles Biotechnologies. Proc. of 7th International Workshop of Fuzzy Applications SOFA '16, Arad, 24-26 August, 2016. Advances in Intelligent Systems and Computing, Springer Cham, Vol. 2, pp. 605-611. Published: **2018**. ISBN: 978-3-319-62524-9, ISSN 2194-5357, eISSN: 2194-5365, WOS:000433139800045, DOI: 10.1007/978-3-319-62524-9_45. Conference paper. ISI indexed.
3. M. Pustianu, M. Dochia, C. Sîrghie, S. Gavrilăș, D. Tomescu, Treatment optimization for bioscouring in ultrasound of cotton/cottonised hemp blended fabrics, Proceedings of the 7th International Workshop on Soft Computing Applications (SOFA **2016**), Volume 2, Advances in Intelligent Systems and Computing 634, Springer Publishing, Editors: Valentina Emilia Balăș, Lakhmi C. Jain. Marius Mircea Bălaș, pp. 595-604. doi:10.1007/978-3-319-62524-9.
4. Ioan Vifor Iștoc, Mihaela Dochia, Iuliana Dumitrescu, **Cecilia Sîrghie**, „Enzymatic finishing of blended textile materials from cottonised flax and cotton fibers”, Industria Textilă, Vol.65, **2014**.
5. Ioan Vifor Iștoc, Monica Pustianu, Ana Mihaela Dochia, **Cecilia Sîrghie**, Alina Popescu, „Study Regarding the Optimization of the Bioscouring Treatment with Ultrasound on 100 % Cotton Materials”, Industria Textilă, Vol.65, **2014**.
6. Andreea I. Pag, Dana G. Radu, Dan Drăgănescu, Marcel I. Popa, **Cecilia Sîrghie**, “Flaxseed cake – a sustainable source of antioxidant and antibacterial extracts”, Cellulose Chem. Technol., **2014**.
7. Adina-Maria Bodescu, **Cecilia Sîrghie**, Titus Vlase, Nicolae Doca, „Comparative kinetics studies of thermal decomposition of kalium, respectively natrium oxalato-oxo-diperoxo molibdate”, J. Therm. Anal. Calorim., Publicat online 30 Aprilie **2013**, DOI 10.1007/s10973-013-3192-2.
8. Dorina Chambre, Adina Maria Bodescu, **Cecilia Sîrghie**, “Thermal decomposition of the oxo-diperoxo-molibdenum(VI)-potassium oxalate” Journal of Thermal Analysis and Calorimetry, **2013**, 112(2), 851-857.
9. Dan Drăgănescu, Mihaela Silion, Ioana Ignat, **Cecilia Sîrghie**, Marcel Ionel Popa, „Entrapment of flaxseed extract into xanthan-chitosan complex”, Cellulose Chemistry and Technology, 47 (3-4), **2013**, 231-238.
10. Marcel Ionel Popa, Silvia Pernevan, **Cecilia Sîrghie**, Iuliana Spiridon, Dorina Chambre, Dana Maria Copolovici, Niculina Popa "Mechanical properties and weathering behavior of polypropylene-hemp shives composites", Journal of Chemistry, **2013**.
11. Silvia Pernevan, Liviu Marșavina, Dana Radu, Ionel Marcel Popa, **Cecilia Sîrghie**, „Considerations about the impact behavior of biocomposites based on polypropylene and furan resins reinforced with hemp shives”, Journal of Natural Fibers (WJNF), **2013**, 10 (2), 197-206.

12. **Cecilia Sîrghie**, Adina-Maria Bodescu, Alexandru Botar, Cavaco-Paulo, Florentina-Daniela Munteanu, „*Characterization of Ligno-Cellulosic Materials Bleached with Oxo-Diperoxo-Molybdates*, *Carbohydrate Polymers*, DOI 10.1016/j.carbpol.2013.06.021.
13. Adina-Maria Bodescu, **Cecilia Sîrghie**, Titus Vlase, Nicolae Doca, „*Kinetics of thermal decomposition of natrium oxalato-oxo-diperoxo molibdate*”, *J. Therm. Anal. Calorim.*, Publicat online 17 Noiembrie 2011, DOI 10.1007/s10973-011-1993-8.
14. 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.
15. **Cecilia Sîrghie**, Lieva Van Langenhove, Mircea Sorin Bucur, Viorica Papaghiuc, “Studiu comparativ între trei tipuri de metode de cotonizare în ultrasunete pentru creșterea procentului de în cotonizat în firele amestec în-bumbac”, *Revista Industria de Textile*, vol 4, 2008.
16. Ioan Vifor Iștoc, Mihaela Dochia, Iuliana Dumitrescu, Cecilia Sîrghie, „Enzymatic finishing of blended textile materials from cottonised flax and cotton fibers”, *Industria Textilă*, Vol.65, 2014.
17. Marcel Ionel Popa, Silvia Pernevan, Cecilia Sîrghie, Iuliana Spiridon, Dorina Chambre, Dana Maria Copolovici, Niculina Popa "Mechanical properties and weathering behavior of polypropylene-hemp shives composites", *Journal of Chemistry*, 2013.
18. Andreea I. Pag, Dana G. Radu, Dan Drăgănescu, Marcel I. Popa, Cecilia Sîrghie, “Flaxseed cake – a sustainable source of antioxidant and antibacterial extracts”, *Cellulose Chem. Technol.*, 2014.
19. Cecilia Sîrghie, Adina-Maria Bodescu, Alexandru Botar, Cavaco-Paulo, Florentina-Daniela Munteanu, „*Characterization of Ligno-Cellulosic Materials Bleached with Oxo-Diperoxo-Molybdates*, *Carbohydrate Polymers*, DOI 10.1016/j.carbpol.2013.06.021.
20. Silvia Pernevan, Liviu Marșavina, Dana Radu, Ionel Marcel Popa, Cecilia Sîrghie, „Considerations about the impact behavior of biocomposites based on polypropylene and furan resins reinforced with hemp shives”, *Journal of Natural Fibers (WJNF)*, 2013, 10 (2), 197-206.
21. Adina-Maria Bodescu, Cecilia Sîrghie, Titus Vlase, Nicolae Doca, „Comparative kinetics studies of thermal decomposition of kalium, respectively natrium oxalato-oxo-diperoxo molibdate”, *J. Therm. Anal. Calorim.*, Publicat online 30 Aprilie 2013, DOI 10.1007/s10973-013-3192-2
22. Adina-Maria Bodescu, Cecilia Sîrghie, Titus Vlase, Nicolae Doca, „Kinetics of thermal decomposition of natrium oxalato-oxo-diperoxo molibdate”, *J. Therm. Anal. Calorim.*, Publicat online 17 Noiembrie 2011, DOI 10.1007/s10973-011-1993-8.
23. Dan Drăgănescu, Mihaela Silion, Ioana Ignat, Cecilia Sîrghie, Marcel Ionel Popa, „Entrapment of flaxseed extract into xanthan-chitosan complex”, *Cellulose Chemistry and Technology*, 47 (3-4), 2013, 231-238.
24. Ryszard M. Kozłowski, Agnieszka Kręgielczak, Dana G. Radu, Andreea I. Pag & Cecilia Sîrghie (2014) Flax Seeds—Source of Biomedical and Food Products, *MOL CRYST LIQ CRYST*, 603:1, 122-135, DOI: 10.1080/15421406.2014.968076.
25. Cecilia Sîrghie, Mihaela Dochia, Ioan Vifor Istoc, Dorina Chambre and Lucian Copolovici, A comparison of a new method mediated by molybdenum complex with an enzymatic method for bleaching flax fibers, *Journal of Natural Fibers*, 2014,
26. C Sîrghie, IV Istoc, S Bungau, L Copolovici, Influence of ultrasound field on laccase degumming process, *Cellul. Chem. Technol* 49, 901-904

f) **Publicații în extenso, apărute în lucrări ale principalelor conferințe internaționale de specialitate.**

- 1) 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 Universității din Oradea, Fascicola Textile&Pielarie*, **2016**, vol XVII, p. 89-111, PISSN: 1843-813X
- 2) R. M. Kozłowski, A. Kregielczak, D. G. Radu, A. I. Pag, **C. Sîrghie**, Flax Seeds as Source of Biomedical Products and Foods, *Molecular Crystals and Liquid Crystals*, 1542-1406 (Print), 1563-5287 (Online), **2014**, DOI: 10.1080/15421406.2014.968076
- 3) A. Popescu, **C. Sîrghie**, M. Dochia, D. M. Copolovici, L. Chirila, „Aspects regarding natural dyeing of enzymatically pre-treated cellulosic blended yarns” - ICAMS **2014** – 5th International Conference on Advanced Materials and Systems, file:///C:/Users/Dana/AppData/Local/Packages/Microsoft.MicrosoftEdge_8wekyb3d8bbwe/TempState/Downloads/Proceedings%20of%20ICAMS%202014.pdf .
- 4) Dana G. Radu, **Cecilia Sîrghie**, “Testing the Effectiveness of some Environmental-Friendly Antibacterial Fabrics”, *Advances in Environmental Technologies, Agriculture, Food & Animal Science, Proceedings of the 2nd International Conference on Agricultural Science, Biotechnology, Food&Animal Science (ABIFA 2013)*, Braşov, Romania, June 1-3, **2013**, pp. 300, ISBN 978-1-61804-188-3;
- 5) Ioan Vifor Iştoc, Monica Pustianu, Adina Bucevschi, Mihaela Dochia, **Cecilia 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, Braşov, România, 1-3 Iunie **2013**, 258-262, ISSN: 2227-4359, ISBN: 978-1-61804-188-3;
- 6) Maria Silvia Pernevan, Liviu Marşavina, Ioan Pernevan, **Sîrghie Cecilia**, Mihaela Popescu, “Experimental research regarding the tensile properties of some polypropylene based biocomposites reinforced with hemp shives”, *ISI Proceedings ISCS International Conference Timisoara*, July **2013**;
- 7) Maria Silvia Pernevan, Liviu Marşavina, Ioan Pernevan, Mihaela Popescu, **Cecilia Sîrghie**, “A Theoretical and Experimental Study Regarding Some Mechanical Properties of A Melamino-Formaldehyde Based Biocomposite Reinforced with Hemp Shives”- 13th International Multidisciplinary Scientific GeoConference & EXPO SGEM **2013**, Albena Bulgaria –ISI Proceedings;
- 8) Pernevan Maria.Silvia, **Sîrghie Cecilia**, Pernevan Ioan, Popescu Mihaela, Marşavina Liviu, Comparative Analysis of the Bending Properties of Biocomposites Reinforced with Hemp Shives in Form of Dust and Melamino-Formaldehyde Matrix, *NANOCON 4th International Conference 23rd 25th Oct 2012 Brno Czech Republic*, ISI Proceedings , pag 669;
- 9) 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 p. 93-98, P-ISSN: 1843-813X;
- 10) 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 p. 99-102, P-ISSN: 1843-813X;
- 11) M. Pustianu, M. Chindriş, 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 1: Determination of the Efficiency of the Dyeing treatment”, *Analele Universității din Oradea, Fascicola Textile&Pielarie*, **2013**, vol XIV, p.123, P-ISSN: 1843-813X.

- 12) Ecaterina PINTILIE- UTI Iasi, Elena Moisesescu- UTI Iasi, **Cecilia Sîrghie**- UAV Arad, Manuela Avădanei – UTI Iasi, Liliana HRISTIAN- UTI Iasi; Research concerning knit particularities process of yarns made from flax and cotton blend; 4th INTERNATIONAL TEXTILE, CLOTHING & DESIGN CONFERENCE – Magic World of Textiles, October 05th to 08th **2008**, DUBROVNIK, CROATIA, pag. 253-259. ISBN 978-953-7105-26-6;
- 13) Ecaterina Pintile*, Stan Mitu*, Caraiman George Paul, **Cecilia Sîrghie****, Manuela Avădanei*. “Aspecte teoretice și rezultate experimentale privind indicatorii sanogenetici pentru tricoturi realizate din fire de in în amestec cu bumbac”.Analele Universitatii din Oradea, Fascicola TextileșPielarie, ISSN 1582-5590, vol IX, pag 71-78, **(cat B) 2008**.
- 14) Florentina-Daniela Munteanu, Mihaela Dochia, **Cecilia Sîrghie**, “Studies on the stability of a laccase used in ultrasound or in presence of emollient”, Analele Universitatii din Oradea, Fascicola TextileșPielarie, vol VIII, ISSN 1582-5590,pag 62-67, 2007. **(cat B)**
- 15) D.L. Bordeianu, **C. Sîrghie**, D.L. Tutuca: “O noua viziune asupra utilizarii si prelucrării inului” Analele Universitatii din Oradea, Fascicola Textile ș Pielarie, vol 4, pag.89-95, ISSN1582-5590. 2004, **(cat B)**
- 16) **C. Sîrghie**, D.L. Bordeianu, D.L. Tutuca “Noi structuri de fire din amestecuri de bumbac cu in cotonizat” Analele Universitatii din Oradea, Fascicola TextileșPielarie, vol 4, pag 95-99, ISSN1582-5590, 2004. **(cat B)**.

g) Alte lucrări și contribuții științifice.

- 1) Pustianu M., **Sîrghie C.**, “Mathematical modelling of treatments with lacasse in normal conditions of flax fibres”, Bulletins of Applied&Computer mathematics, BAM-CXII/2008, ISSN 0133-3526, 2371, pag. 181-188, 2008;
- 2) **Sîrghie C.**, Pustianu M., “Mathematical modelling of treatments with lacasse in ultrasound conditions of flax fibres”, Bulletins of Applied&Computer mathematics, BAM-CXII/2008, ISSN 0133-3526, 2372, pag. 189-186, 2008;
- 3) Bucur Mircea, Dinca Nicolae, **Cecilia Sîrghie**, Pustianu Monica, Szabo Monica, Lieva van Langenhove, “Monitoring the enzymatic cottonisation process of flax fibres”, Simpozion International “Research and Education in Innovation Era” 16-18th of November ARAD, pag 223-229, ISBN 9978-973-752-110-1, 2006 **(cat C)**
- 4) Mircea Sorin Bucur, Nicolae Dinca, **Cecilia Sîrghie**, Monica Szabo, Monica Pustianu, Lieva van Langenhove, Philipe Westbroek, “ Flax lignin oxidation with laccasse in the presence of mediators” Scientific and Technical Buleletin, Serie: Textile science, vol 12, No1, 2006, pag 22-35, ISSN 1454- 8917.2006.**(cat C)**.
- 5) M.S.Bucur; N.Dinca; **C.Sîrghie**; M.Szabo; M.Pustianu; P.Westbroeke; K.De Clerk; “Influenta complexantilor in cotonizarea enzimatică în ultrasunete a fibrelor de in”; Simpozion Arad, Romania, Noiembrie, 2004. **(cat C)**.
- 6) **C.Sîrghie**, D.Bordeianu, V.Gribincea, “Effect of torsion degree upon yarns characteristics from flax-cotton mixtures” ; Bulletin UTI.Tomul XLVII (LI); fasc. 1-2; pag. 23-26; 2001; **(cat C)**.
- 7) Zamfir, M., Preda, C., Niculescu M, **Sîrghie C.**, Mihăescu D., Minea, A;”Combined Chemical/Plasma Treatment for Optimising Nonwoven Textile Filter Materials Applied on Gaseous and Aqueous Effluents XII. Influence of some plasma/chemical treatments on the physical properties of the filters made of needlepunched nonwovens”; Bulletin U.T.I.; section VII, XLVI (L) Fasc.3-4, pag.97-101; 2000, **(cat C)**.
- 8) Zamfir, M., Preda, C., **Sîrghie C.**, Niculescu M, Mihăescu, D., Minea, A.,” Combined Chemical/Cold Plasma Treatment for Optimising Nonwoven Textile Filter Materials Applied on Gaseous and Aqueous Effluents XII. Influence of some plasma/chemical treatments on the physical properties of the filters made of needle punched nonwovens”. Bulletin U.T.I.; section VII, XLV (XLVIX). Fasc.1-2, 1999. **(cat C)**.

- 9) Grigoriu A., Blascu V., Macocinschi D., **Sîrghie C.**, Marincas O., Cîdu E., Scarlat H., "Combined Chemical/Cold Plasma Treatment for Optimising Nonwoven Textile Filter Materials Applied on Gaseous and Aqueous Effluents X. Antistatic Treatment", Bulletin U.T.I., Section VIII, XLV (IL), fasc. 1-2, 1999. **(Cat C)**.
- 10) Zamfir M., Preda C., **Sîrghie C.**, Niculescu M., Georgescu L., Scarlat H., Mihăiescu D., "Combined Chemical/Cold Plasma Treatment for Optimising Nonwoven Textile Filter Materials Applied on Gaseous and Aqueous Effluents I. Needle punched Nonwoven Filtering Materials", Bulletin UTI. Section VIII, XLIV (XLVIII), fasc. 3-4, 1998, p. 25. **(cat C)**.
- 11) **C.Sîrghie**, C.Cuzic-Zvonaru "La sfîrsit de mileniu amestecurile in-bumbac reprezinta o afacere pentru industria textila Romaneasca?"; Buletin Stiintific al Universitatii Lucian Blaga din Sibiu; Vol.1; pag. 481-486; 1998; **(cat C)**.

Participari la manifestari stiintifice internationale: Invited speaker

- 1) **Sîrghie Cecilia**-Universitatea "Aurel Vlaicu" Arad "Biotechnologies applied to lignocelluloses fibers in order to increase them spinn-ability on cotton spinning system" ; Broom Arts and Textile Technology: Cluster start – up in a fragile region of Europe:Calabria; 26 Mai-1 Iunie, 2008
- 2) **Sîrghie Cecilia**-Universitatea "Aurel Vlaicu" Arad "Present and future in enzymatic flax processing", International conference "Opportunities for European Textile and Clothing Industry" within the framework of general Flemish-Ukrainian project "NeTTex" - "Flemish-Ukrainian Networking in Textiles and Clothing" Kiev National University of Technologies and Design. February, 3-4, 2009.
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