

## LISTA LUCRĂRI (selectiv)

### Teza de doctorat

**Diana Coman:** *Stabilizarea prin retratare a coloranților anionici aplicați pe fibrele textile*, Universitatea Tehnică "Gh. Asachi" din Iași, 1998, domeniul Chimie, specializarea Tehnologie chimică textilă.

### Cărți

1. **Coman D.**, *Metode de investigare a materialelor colorante*, ISBN 973-8377-73-0, Editura Tehnopress, Iași, 2003.
2. **Coman D.**, *Stabilizarea vopsirilor cu coloranți anionici prin retratare*, ISBN 973-651-539-7, Editura Universității "Lucian Blaga" din Sibiu, 2002.
3. Grigoriu A., **Coman D.**, *Bazele finisării produselor textile*, ISBN 973-8048-59-1, Editura Tehnopress, Iași, 2001.
4. Brătilesco I., **Coman D.**, *Fibre textile. Îndrumar pentru lucrări practice de laborator*, ISBN 973-926-66-3, Editura Universității "Lucian Blaga" din Sibiu, 1997.
5. **Coman D.**, Grigoriu A., *Finisare textilă. Îndrumar pentru lucrări practice*, ISBN 973-651-743-8, Editura Universității "Lucian Blaga" din Sibiu, 2003.
6. Grigoriu A., Radu D.C., **Coman D.**, Merticaru V., *Elemente de proiectare tehnologică în finisarea chimică textilă*, ISBN 973-8377-76-5, Editura Tehnopress, Iași, 2003.
7. **Coman D.**, Blașcu V., Vrînceanu N., *Testarea fibrelor textile*, ISBN 978-973-632-360-7, Editura Alma Mater, Sibiu, 2007.
8. **Coman D.**, *Materii prime industriale pentru textile și pielărie*, ISBN 978-606-12-0933-0, Editura Universității "Lucian Blaga" din Sibiu, 2015.

### Lucrări indexate ISI / BDI

1. **Coman D.**, Oancea S., Vrînceanu N., Stoia M., *Sonication and conventional dyeing procedures of flax fibres with Allium cepa anthocyanin extract*, Cellulose Chemistry and Technology, vol. 48, no. 1-2, ISSN 0576-9787, 2014, p.145-157, FI 0.825
2. **Coman D.**, Oancea S., Vrînceanu N., *Biofunctionalization of textile materials by antimicrobial treatments: a critical overview*, Romanian Biotechnological Letters, București, ISSN 1224-5984, vol.15, no.1, 2010, p.4913-4921, FI 0.404
3. Vrînceanu N., **Coman D.**, Grigoriu A.M., Grigoriu A., *Spectroscopic studies on the wool surface modifications induced by UV excimer laser irradiation*, Industria Textilă, ISSN 1222-5347, vol.61, no.5, 2010, p.218-222, FI 0.570
4. **Coman D.**, Vrînceanu N., Cipăian R.C., *Health-improved textiles obtained by heat surface ecodyeing treatments*, Advanced Materials Research, Trans Tech Publications, Switzerland doi:10.4028/www.scientific.net/AMR.1128.322, Vol. 1128, 2015, p. 322-331.
5. **Coman D.**, Vrînceanu N., Dinu M., Cipăian R.C., *New alternative in the methodology of extraction and dyeing with active molecules derived from vegetal sources*, 9th International Conference Interdisciplinarity in Engineering, Inter-Eng 2015, Tîrgu-Mureș, Romania, Procedia Technology, DOI 10.1016/j.protcy.2016.01.043, 2016
6. **Coman D.**, Vrînceanu N., Oancea S., Neagu I., *Comparative sustainable antibacterial technologies for textile applications*, Buletinul AGIR, supliment 2/2015, Dezvoltarea durabilă favorabilă incluziunii, Editura AGIR, ISSN-L 1224-7928, p.125-134.
7. Vlad D., Coldea A.M., **Coman D.**, *Study regarding the use of new sustainable textile materials*, Buletinul AGIR, supliment 2/2015, Dezvoltarea durabilă favorabilă incluziunii, Editura AGIR, ISSN-L 1224-7928, p.115-124.
8. **Coman D.**, Oancea S., Vrînceanu N., Vlad D., *Research regarding the correlation between morphological - structural features and mechanical behaviour of eco-dyed textile composites*, Proceedings of the 6th WSEAS International Conference on Manufacturing Engineering, Quality and Production Systems (MEQAPS '13), Brașov, June 1-3, 2013, p. 254-258, ISSN 2227-4588.
9. **Coman D.**, Vrînceanu N., Oancea S., *Innovative eco-dyed composites obtained by inclusion procedure*, Welding and Material Testing (Sudarea și Încercarea Materialelor), The Bulletin of the National R&D Institute for Welding and Material Testing – ISIM Timișoara, Romania, nr.1, 2014, ISSN 1453-0392.p.17-20, isim.ro/bid\_arhiva/bid2014/coman\_1-2014.pdf.
10. **Coman D.**, Oancea S., Vrînceanu N., *Research on application of bilberry extract in natural textile dyeing technology*, Annals of the University of Oradea. Fascicle of textiles, leatherwork, ISSN 1843 – 813X, vol XIV, nr. 1, 2013, p. 152-156, International Scientific Conference "Innovative solutions for sustainable development of textiles and leather industry", Oradea, 2013.

11. **Coman D.**, Vrînceanu N., Oancea S., Neagu I., *Research on ecodyeing textile materials with natural extracts*, Annals of the University of Oradea. Fascicle of textiles, leatherwork, ISSN 1843 – 813X, CD-ROM 2068-1070, vol XIII, nr. 1, 2012, p. 76-81.
12. Neagu I., **Coman D.**, *Studies regarding the Confort ensured by the sea*, Annals of the University of Oradea. Fascicle of textiles, leatherwork, ISSN 1843 – 813X, vol XIII, nr. 1, 2012, p.103-106.
13. Oancea S., **Coman D.**, Vrînceanu N., *Eco-friendly process of dyeing materials using bilberry anthocyanin extract*, Proceedings of the 16<sup>th</sup> International Conference - Modern Technologies, Quality and Innovation – ModTech 2012- New face of TMCR, ISSN 2067–3604, mai, 2012, Sinaia, p.685-688.
14. **Coman D.**, Vrînceanu N., Popovici V., *Reducing the environmental impact of textile dyes containg wastewater by photocatalytic degradation with zincoxide nanocoated fibers*, Annals of DAAAM for 2011 & Proceedings of the 22<sup>nd</sup> International DAAAM Symposium, Vol.22, No.1, ISSN 1726-9679 ISBN 978-3-901509-83-4, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria, 2011, p.0175-0176.
15. **Coman D.**, Vrînceanu N., Neagu I., *Eco-efficiency in the textile manufacturing activity by apposition environmental management*, Annals of the University of Oradea. Fascicle of textiles, leatherwork, ISSN 1843 – 813X,vol XII, nr. 1, 2011, p.62-65.
16. **Coman D.**, Oancea S., Vrînceanu N., Stoia M., *Frontiers in the use of antibiotics: Applications for biomedical textiles*, Acta Medica Transilvanica, supliment, anul XVI, vol. II, nr. 3, sept. 2011, p.65-69, Ed. Univ. „Lucian Blaga” din Sibiu, ISSN1453-1968, ISBN978-606-12-0204-1.
17. **Coman D.**, Neagu I., Vlad D., Matran C., *Researches regarding the using new textile parts in the automotive industry*, Annals of DAAAM for 2010 & Proceedings of the 21st International DAAAM Symposium, ISSN 1726-9679, ISBN 978-3-901509-73-5, Editor B.Katalinic, Published by DAAAM International,Vienna, Austria, 2010, p.0223-0224.
18. Vrînceanu N., **Coman D.**, Sandu I., Grigoriu A., *Surface microstructuring of polyester fabrics by UV excimer laser irradiation*, DAAAM International Scientific Book 2009 (ISBN 978-3-901509-69-8, ISSN 1726-9687), Vienna, Austria, 2009, p. 613-620.
19. **Coman D.**, Neagu I., *Comparative study on the testing of textile materials used in the automotive industry*, Annals of DAAAM for 2007 & Proceedings of the 18th International DAAAM Symposium "Intelligent Manufacturing & Automation: Focus on Creativity, Responsibility, and Ethics of Engineers", ISSN 1726-9679, ISBN 3-901509-58-5, Published by DAAAM International, Editor B.Katalinic, Vienna, Austria, 2007, p. 167-168.
20. **Coman D.**, Neagu I., *A process for the post-treatment of dyed cellulosic textile fibers*, Annals of DAAAM for 2003 & Proceedings of the 14th International DAAAM Symposium "Intelligent Manufacturing & Automation: Focus on Reconstruction and Development", ISSN 1726-9679, ISBN 3-901509-34-8, Published by DAAAM International, Editor B.Katalinic, Vienna, Austria, 2003, p. 097-098.
21. Neagu I., **Coman D.**, *Peculiarities regarding the design of the robes for the "Lucian Blaga" University in Sibiu(Romania)*, Annals of DAAAM for 2003 & Proceedings of the 14th International DAAAM Symposium "Intelligent Manufacturing & Automation: Focus on Reconstruction and Development", ISSN 1726-9679, ISBN 3-901509-34-8, Published by DAAAM International, Editor B.Katalinic, Vienna, Austria, 2003, p 319-320.
22. **Coman D.**, Dragu L., *Possible methods of pretreatment in the textile dyeing technology*, The Textile Institute, 83<sup>rd</sup> World Conference "Quality Textiles for Quality Life", CD Conference Proceedings ISBN 1870372603, Shangai, China, may, 2004, vol.1-4, p. 610-613.
23. **Coman D.**, *Study on the interaction between polyamide fibers and polycationic auxiliaries in the dyeing technology (I)*, Acta Universitatis Cibiniensis, Seria F, Chemia, vol VI, nr. 2, Editura Universităţii "Lucian Blaga" din Sibiu, ISSN 1583-5030, Sibiu, 2003, p. 15-20.

### Lucrări publicate în reviste și volume de conferințe cu referenți

1. **Coman D.**, Vrînceanu N., Oancea S., Cipăian C.R., *Medical textiles obtained by head surface ecodyeing treatments*, 9<sup>th</sup> International Conference on Material Science and Engineering – BraMat, 5-7 mar.2015, Braşov, Book of Abstracts, p.231.
2. Orlandin A., Hilma G., **Coman D.**, Oancea S., Formaggio E., Peggion C., *Cotton fibers functionalized with peptaibiotics*, 14<sup>th</sup> Naples Workshop on Bioactive Peptides, Napoli, Italia, 12-14 june, 2014, The Renaissance Era of Peptides in Drug Discovery, volum rezumate, p.76.
3. Orlandin A., Hilma G., **Coman D.**, Oancea S., Formaggio F., Peggion C., *Antibacterial peptides covalently bound to cotton garments*, XXV Congresso Nazionale della Societa Chimica Italiana, Arcavacata di Rende, Italia, 7-12 sept.2014, Atti del Congresso, p.897.
4. **Coman D.**, Oancea S., Vrînceanu N., *Studies regarding the investigation of the textile substrates dyed with natural extracts*, 4<sup>th</sup> International Proficiency Testing Conference, Proceedings ISSN 2066-737X, Braşov, 2013, p. 250-255.
5. **Coman D.**, Vrînceanu N., Oancea S., Vlad D., *Application of antibiotics and peptides for textiles with antimicrobial barrier: interaction and assessment*, 4<sup>th</sup> International Proficiency Testing Conference, Proceedings ISSN 2066-737X, Braşov, sept, 2013, p. 263-274.

6. **Coman D.**, Vrînceanu N., Oancea S., Stoia M., *A novel approach regarding ecodyeing textile materials with natural extracts*, XXIII International IFATCC Congress (Congress of the International Federation of Associations of Textile Chemists and Colourists), Budapest, Hungary, mai 2013, Congress CD-ROM ISBN 978-963-9970-33-5, Programme and Abstracts, ISBN 978-963-9970-32-8, p.101.
7. **Coman D.**, Oancea S., Vrînceanu N., *Obtaining of advanced functionalized ecotextiles dyed with natural colorants extracted from bilberry fruit*, Abstract Book, 9<sup>th</sup> International Conference on Physics of Advanced Materials ICPAM-9, Iași, sept. 2012, p.21- 22.
8. **Coman D.**, Oancea S., Vrînceanu N., Drăghici O., Stoia M., *An investigation of  $\beta$ -cyclodextrin pretreatment efficacy onto flax fabrics ecodyed with a natural extract: characterization and thermal stability*, Thermal analysis and calorimetry techniques, SETARAM Workshop/Training, București, 2012.
9. Stoia M., Oancea S., **Coman D.**, *Market assessment of herbal supplements in Romania for a period of 10 years using a holistic approach*, Abstracts Book, The 16<sup>th</sup> International Congress Phytopharm 2012, ISSN 1683-4100, Tom 10, nr.2, Saint-Petersburg, Russia, iulie 2012, p.102.
10. **Coman D.**, Oancea S., Vrînceanu N., Drăghici O., Stoia M., *An investigation of  $\beta$ -cyclodextrin pretreatment efficacy onto flax fabrics ecodyed with a natural extract: characterization and thermal stability*, Book of Abstracts, XXXIV National Congress on calorimetry, thermal analysis and applied thermodynamics, Rome, Italy, iunie 2012, p.97-98.
11. **Coman D.**, Oancea S., Vrînceanu N., Neagu I., *Hygienic relevance of textiles ecoimpregnated with antibiotics*, 3<sup>rd</sup> International Proficiency Testing Conference, Proceedings ISSN 2066-737X, Iași, sept, 2011, p. 220 – 225.
12. Oancea S., Oprean L., **Coman D.**, *Analytical methods for testing total bioactive anthocyanins in red cabbage*, 3<sup>rd</sup> International Proficiency Testing Conference, Proceedings ISSN 2066-737X, Iași, sept, 2011, p. 208 – 214.
13. **Coman D.**, Oancea S., Vrînceanu N., Stoia S., *Frontiers in the use of antibiotics: Applications for biomedical textiles*, Conferința Națională de Medicina Muncii cu Participare Internațională, 21-24 sept.2011, Broșura cu rezumate, p.22-23.
14. **Coman D.**, Vrînceanu N., Neagu I., *Eco-efficiency in the textile manufacturing activity by apposition environmental management*, International Scientific Conference "Innovative solutions for sustainable development of textiles industry", mai 2011, Oradea, Proceedings vol.XII, p.23.
15. **Coman D.**, Bănăduc A., Bucșa C., Vrînceanu N., *Aspects concerning the evaluation of environmental impact and management of textile industry deriving wastewaters*, 2<sup>nd</sup> National Conference with International Participation- Nanostructured Multifunctional Materials NMM, Iași, 2010, Book of Abstracts, p.86.
16. **Coman D.**, Vrînceanu N., *Possibilities for monitoring and reducing of the environmental impact for industrial textile activities*, Acta Universitatis Cibiniensis vol.LX Tehnical series, ISSN 1583-7149, Sibiu, 2010, p.13-18.
17. Dragu L., **Coman D.**, *Transportation textile performance characteristics and their testing methods*, 2<sup>nd</sup> International Proficiency Testing Conference, Proceedings ISSN 2066-737X, Sibiu, sept, 2009, p. 207 – 214.
18. **Coman D.**, Oancea S., *Evaluation of antimicrobial textiles*, Acta Universitatis Cibiniensis vol.LIX, Tehnical series, ISSN 1583-7149, Sibiu, 2009, p.137-141.
19. Dragu L., **Coman D.**, *Possibilities of assessment for textile automotive structures*, Acta Universitatis Cibiniensis vol.LIX, Tehnical series, ISSN 1583-7149, Sibiu, 2009, p.150-155.
20. Dinu M., Floca A., **Coman D.**, *Study concerning determination of the pilling effect on knitted fabrics through rolling method*, Acta Universitatis Cibiniensis vol.LIX, Tehnical series, ISSN 1583-7149, Sibiu, 2009, p.127-130.
21. **Coman D.**, Floca A., *Study of the finishing processes influence on the shrinkage of knitted fabrics*, Acta Universitatis Cibiniensis vol.LVIII Tehnical series, ISSN 1583-7149, Sibiu, 2009, p.78-82.
22. **Coman D.**, Dragu l., Ștefănuță I., *Control and testing methods for the quality of textiles materials in the automotive industry*, 1<sup>th</sup> International Proficiency Testing Conference, Proceeding ISBN 978-973-8132-65-8, Sinaia, october, 2007, p. 430-436.
23. Brad R., **Coman D.**, *Techniques and methods for the testing of automotive industry*, Acta Universitatis Cibiniensis vol.LIII Tehnical series, ISSN 1583-7149, Sibiu, 2006, p.140-149.
24. Brad R., **Coman D.**, *Incoming quality testing for textile automotive industry*, Acta Universitatis Cibiniensis vol.LIII Tehnical series, ISSN 1583-7149, Sibiu, 2006, p.25-28.
25. Dragu L., Nederiță V., Ciudin R., **Coman D.**, *Study about possibility of using neconventional radiation sources in polimeric surface treatment*, Revista de Tehnologii Neconvenționale nr 2 / 2004, Editura Augusta, Timișoara, ISSN 1454-3087, p. 65-69.
26. **Coman D.**, Dragu L., Nederiță V., *Possibilities of pretreatment utilization in wool dyeing technology*, II. International Istanbul Textile Congress, Abstracts Book, CD Proceedings, Istanbul, Turcia, april, 2004, p. 48.
27. **Coman D.**, Dragu L., *Fibre textile de înaltă performanță pentru domeniul militar și civil*, Volumul A VII-a Sesiune de comunicări științifice, secțiunea Științe Tehnice, Academia Forțelor Terestre "Nicolae Bălcescu", ISBN 973-8088-85-2, Sibiu, 2003, p. 80-85.
28. Dragu L., **Coman D.**, *Aspecte privind îmbunătățirea materialelor textile prin tratamente neconvenționale de suprafață*, Volumul A VII-a Sesiune de comunicări științifice, secțiunea Științe Tehnice, Academia Forțelor Terestre "Nicolae Bălcescu", ISBN 973-8088-85-2, Sibiu, 2003, p. 86-91.

29. **Coman D.**, Grigoriu A., *Mathematical modelling of the dyeing aftertreatment process using polycationic agents.II. The optimising of the aftertreatment process in the polyamide fiber-acid dye system*, Buletinul Institutului Politehnic Iași, S.VIII Textile. Pielărie, fasc 3-4, Tomul XLVIII(LII), ISSN 0253 – 1119, Iași, 2002, p. 59-66.
30. **Coman D.**, Grigoriu A., Șipoș A., *Optimizarea tratamentelor ulterioare vopsirii prin aplicarea produselor tip Ponilit*, Lucrările sesiunii Altexim I, Buletin științific, vol I, ISSN 973-9280-96-X, Sibiu, 1998, p.361-366.
31. **Coman D.**, Grigoriu A., *Îmbunătățirea stabilității coloranților anionici prin tratamente ulterioare cu produse cationice*, Lucrările sesiunii Altexim I, Buletin științific, vol I, ISSN 973-9280-96-X, Sibiu, 1998, p.367-372.

#### **Contracte de cercetare științifică**

1. PN-II-ID-PCE-2011-3-0474, Program IDEI - contract nr. 333/5/10/2011, *Cercetări privind compușii bioactivi antocianici din plante alimentare, relevante pentru stabilizarea lipidelor polinesaturate și pentru obținerea de eco-textile*, membru în echipă, 2012-2015.
2. PN-II - Program Capacități/Modulul III – Cooperare bilaterală Romania-Italia, contract nr.3795/2012, *Peptabiotice, ca alternativă la antibioticele beta lactamice: design, sinteză, bioactivitate și funcționalizarea materialelor textile*, membru în echipă, 2013-2014.
3. PN-II-ID-PCE, Program IDEI - contract nr. 524/2009, *Noi structuri 3.10 elicoidale peptidice cu potențial antimicrobial relevante pentru domeniile farmaceutic și textil*, membru în echipă, 2009-2011.
4. Programul Operațional Sectorial “Creșterea Competitivității Economice”, *Dezvoltarea pieței interne de confecții prin utilizarea metodei de scanare 3D în identificarea caracteristicilor antropometrice specifice populației din România*, beneficiar Ministerul Economiei și Finanțelor, contract nr.32/839788, membru în echipă, 2007-2009.
5. Contract de cercetare ULBS - Takata Petri Sibiu, nr.232/2/2010, *Dezvoltarea de materiale textile alternative pentru airbaguri*, director de proiect, 2010.

#### **Brevete de invenție**

1. Coman D., Grigoriu A., Drăgan S., Ghimici L., *Procedeu de retratare a materialelor textile vopsite cu coloranți direcți*, OSIM nr.RO 118314 C9/ 2003.
2. Coman D., Grigoriu A., Drăgan S., Ghimici L., *Procedeu de retratare a vopsirilor cu coloranți direcți pe fibre celulozice*, OSIM nr.RO 118809 B1/ 2003.