

Assoc. Prof. Magdalena Simona Fogorasi, PhD

Published books and scientific papers

Books

1. M.D. STANESCU, M. PUSTIANU, **M. FOGORASI**
Dyers and Organic Auxiliaries- Handbook for laboratory, „Aurel Vlaicu" University Publishing House, Arad, 1999, ISBN 973-9361-42-0, 170 p.
2. E. L. PUȘCAȘ, M. STĂNESCU, **M. FOGORASI**, V. DALEA
Sustainable Development via Environmental Protection and Biotechnologies
„Aurel Vlaicu" University Publishing House, Arad 2002, 324 pag. ISBN 973-8363-91-9
3. M.D. STĂNESCU, M. PUSTIANU, **M. FOGORASI**
Dyers and Organic Auxiliaries
Principles - Applications – Ecology
„Aurel Vlaicu" University Publishing House, Arad 2002, 192 pag.
ISBN 973 -8363-05 –0
4. I. DEAC, **M. FOGORASI**, A. ALBAC
Equipment for Textile Finishing –Handbook for laboratory, Second edition,
„Aurel Vlaicu" University Publishing House Arad, 2006,
ISBN: 978-973-752-044-9, 168 pag.
5. I. DEAC, **M. FOGORASI**, A. ALBAC
Equipment for Textile Finishing, „Aurel Vlaicu" University Publishing House Arad,
2012, vol. II, ISBN: 978-973-752-626-7, 491 pag

Scientific papers published in ISI journals/ ISI Proceedings

1. **M. FOGORASI**, M. DOCHIA and M. D. STANESCU
Improvement of cotton dyeing by simultaneous treatment with cellulases,
Cellulose Chemistry and Technology, **2025**, Vol. 59, Issue 7-8, pp 939-948
<https://doi.org/10.35812/CelluloseChemTechnol.2025.59.79>
2. 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,
Journal of Natural Fibers, **2023**, 20:2.
3. M.D. STANESCU, M.S. **FOGORASI**
Biotechnology a tool for modification of cotton fibre, *Chimica Oggi - Chemistry Today*, **2018**, Vol 36, Iss 5, September/October, pp 40-42.

4. A. SANISLAV, M. S. FOGORASI, M. D. STANESCU, S. G. MUNTEAN, M. DOCHIA
Ultrasound Effect on Dyeing Wool Fibers with Two Anthraquinone Dyes
Fibers and Polymers, **2015**, Vol 16, Iss 1, pp 62-66.
5. M.D.STĂNESCU, **M. FOGORASI**, B.L. SHASKOLSKIY, S.GAVRILAȘ V.I. LOZINSKY,
New potential biocatalysts by laccase immobilization in PVA cryogel type carrier,
Appl Biochem Biotechnol, **2010**, Vol 160, Iss 7, pp 1947-1954.
6. M.D.STĂNESCU, **M. FOGORASI**, M. DOCHIA, S. MIHUȚA, V.I. LOZINSKY,
Biotechnology for Textile Waste Valorization, *Revista de Chimie*, 60, nr. 1, **2009**, 59-62. ISSN 0034-7752.
7. B.L. SHASKOLSKIY, **M.S. FOGORASI**, M.D. STĂNESCU, V.I. LOZINSKY,
Application of Poly(vinylalcohol) Cryogels to Biotechnology, VII. Composite Immobilized Biocatalysts Containing articles of Enzyme Preparation Entrapped in the Matrix of Poly(vinylalcohol) Cryogels,
Biotehnologiya, nr.1, **2009**, 71-82, ISSN 0234-2758
<http://scientific.thomsonreuters.com/cgi-bin/jrnlst/jlresults.cgi>
8. **M. S. FOGORASI**, E. HEINE
Spectroscopic methods of studying enzyme action in wool fibre,
CENT. EUR. J. CHEM, **2006**, 4(4), 786-797.
9. M. D. STĂNESCU, M. DOCHIA, **M. FOGORASI**, M. PUSTIANU, M. S. BUCUR
Enzymes in cotton bio-scouring
U.P.B. Sci. Bull., **2010**, Series B, Vol. 72, Iss. 3, ISSN 1454-2331
10. A. BUCEVSCHI, **M.S. FOGORASI**, C. NICOLAESCU, I. BARBU,
Classic or unconventional cotton yarns?
IOP Conf. Ser.: Mater. Sci. Eng. **591 (2019)** 012004
doi:10.1088/1757-899X/591/1/012004
11. **M.S. FOGORASI**, I BARBU
The potential of natural fibres for the automotive sector – review, IOP Conference Series: Materials Science and Engineering, Vol 252, **(2017)** 012044
[doi:10.1088/1757-899X/252/1/012044](https://doi.org/10.1088/1757-899X/252/1/012044)
12. I. BARBU, **M.S. FOGORASI**, M. DOCHIA, M. PUSTIANU, A. BUCEVSCHI, D. FARAMA,
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
Springer Nature Switzerland AG 2019 N. Burnete and B. O. Varga (Eds.): AMMA **2018**, PAE, pp 1–8
https://doi.org/10.1007/978-3-319-94409-8_50

13. I. BARBU, M. SZABO, **M.S. FOGORASI**

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[doi:10.1088/1757-899X/400/6/062004](https://doi.org/10.1088/1757-899X/400/6/062004);

Scientific papers published in journals indexed in International Databases

1. M.D. STANESCU, **M. FOGORASI**,
Enzymes Application in Textile Finishing
Ind. Textilă 51. **2000**, nr.3, 184 – 188, ISSN 1222-5347
2. **M. S. FOGORASI**, A. GRIGORIU, E. HEINE
Immobilized Enzymes and their Action on wool Fibers
Buletinul Institutului Politehnic din Iasi, Tomul XLVIII(LII),
Fasc. 1-2, Textile-Pielarie, **2002**, 59-67.
3. **M.S. FOGORASI**, E.L.PUSCAS, M.D. STANESCU, A. GRIGORIU
Enzyme Influence in Cotton Dyeing
DWI Reports, **2003**, 127, B,1-5, ISSN 0942301X
4. M.D. STANESCU, **M.S. FOGORASI**, F. CHIRALEU, M. DOCHIA, E. HEINE
Stectroscopic Tools for Monitoring Enzyme Action in Textile Finishing
DWI Reports, **2004**, 128, B,1-5, ISSN 0942301X
5. **M.S. FOGORASI**, M.D. STANESCU
Study on the Influence of Enzymatic Pretreatment on the dyeing properties of cotton
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Vol.9, **2004**, ISSN 1582 – 1021, 53-58.
6. M.D. STANESCU, **M.S. FOGORASI**, M. DOCHIA, S. MIHUTA
Biodegradation of textile waste based on cotton
DWI Reports, **2007**, 131, P53, ISSN 0942301x
7. 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, pag.48,
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8. 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, 354- 365.
9. **M. S FOGORASI**
Peer Review Process-Challenges to Research Integrity.
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10. BARBU, I., **FOGORASI, M.S.**, NICOLAESCU, C., BUCEVSCHI, A.
Classic or fully automated technology lines?
IOP Conference Series: Materials Science and Engineering, **2020**, 916(1), 012006
doi:10.1088/1757-899X/916/1/012006

11. BARBU, I., **FOGORASI, M.S.**, BUCEVSCHI, A., NICOLAESCU, C.
Ergonomics elements and their influence on the garment industry
IOP Conference Series: Materials Science and Engineering, **2020**, 916(1), 012007
doi:10.1088/1757-899X/916/1/012007

12. BARBU, I., KOMJATY, A., **FOGORASI, M.S.**, BUCEVSCHI, A., KAMINSZKY, R.
Teaching and e-learning about open-end spinning machine
Proceedings of the 16th International Scientific Conference "eLearning and Software for Education" Bucharest, April 30 - May 1, **2020**,
Vol 3, pp. 285-293, DOI: 10.12753/2066-026X-20-208
ISSN: 2066 - 026X

13. **FOGORASI, M.S.**, KOMJATI, A., BUCEVSCHI, A., BARBU, I.
E-learning-a tool for exploitation of textile tensile testing machine
Proceedings of the 16th International Scientific Conference "eLearning and Software for Education" Bucharest, April 30 - May 1, **2020**,
Vol 3, pp. 309-316; DOI: 10.12753/2066-026X-20-211
ISSN: 2066 - 026X

14. BUCEVSCHI, A., PUSTIANU, M., BARBU, I., **FOGORASI, M.**, AIRINEI, E.
E-learning about quality control in the textile industry. Case study
Proceedings of the 16th International Scientific Conference "eLearning and Software for Education" Bucharest, April 30 - May 1, **2020**,
Vol 3 pp. 301-308 DOI: 10.12753/2066-026X-20-210.
ISSN: 2066 - 026X

15. RADU D., **FOGORASI, M.S.**
Teaching web-enhanced courses for food safety and textile design classes
Proceedings of the 16th International Scientific Conference "eLearning and Software for Education" Bucharest, April 30 - May 1, **2020**,
ISSN: 2066 - 026X
Vol. 3, pp. 331-338. DOI: 10.12753/2066-026X-20-214.

16. BARBU I, BUCEVSCHI A, KOMJATY A, **FOGORASI, M.S.** DOCHIA M,
PUSTIANU M, KAMINSZKY R
Teaching and e-learning about draw frame machine
The 17th International Scientific Conference eLearning and Software for Education
Bucharest, April 22-23, 2021, Vol 2, pp 99-106
DOI:10.12753/2066-026X-21-152

17. DOCHIA M, KAMINSZKY R, **FOGORASI M S**, BUCEVSCHI A, BARBU I, POPA A,
NICOLAESCU C

Aspects regarding the behaviour and comfort of reusable wool protective masks in the context of the COVID-19 pandemic

2021 Conf. Ser.: Mater. Sci. Eng. **1182** 012018

<https://iopscience.iop.org/article/10.1088/1757-899X/1182/1/012018/pdf>

18. M DOCHIA, R KAMINSZKY, **M S FOGORASI**, D FARIMA, I BARBU, C NICOLAESCU, M PUSTIANU, A POPA, A BUCEVSCHI
Study on the behaviour and comfort of reusable knitting suits of wool blends in the context of the Covid 19 pandemic

2021 IOP Conf. Ser.: Mater. Sci. Eng. **1182** 012019

19. M. PUSTIANU, **M. FOGORASI**, I. BARBU, E. AIRINEIA. POPA, A. BUCEVSCHI

Colour Change Study by Retreatment with Direct Dyes. Study Case,

Annals of the University of Oradea, fascicle of textiles, leather work, 2021, Vol. 21 (2), 69-72. ISSN **1843 – 813X**

Papers published in Proceedings of international conferences

1. **M.S. FOGORASI**,

Biotechnology–Tool for Modification of Polymers for Textile Application, *J Material Sci Eng*, Vol 7, p. 39,
Proceedings of the 4th International Conference on Polymer Chemistry, 25-27 June **2018**, Stockholm, Sweden
DOI: 10.4172/2169-0022-C10-119

2. 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

3. **M. S. FOGORASI**, M.D. STANESCU,

The State of Art in Chemical Education in Romanian

Proceedings of the 23rd Congress of International Federation of Association of Textile Chemists and Colourists, 8-10 May, **2013**, Budapest, Hungary

4. **M. FOGORASI**

Influence of Enzymatic Treatment in Cotton Dyeing

International Symposium *Research and Education in an Innovation Era*, Textile Session: Textile Engineering, 8-9 November **2012**, “Aurel Vlaicu” University of Arad, Romania.

5. M. PUSTIANU, A. BUCEVSCHI, 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 an Innovation Era*, Textile Session: Textile Engineering, 8-9 November **2012**, “Aurel Vlaicu” University of Arad, Romania.

6. A. POPA, A. BUCEVSCHI, E. AIRINEI, I. BARBU, M. PUSTIANU,
M. FOGORASI,
The Parameters Influence on the Breaking Elongation of Fabrics
International Symposium *Research and Education in an Innovation Era*, Subsection V:
Textile Engineering, 11-12 November **2010**, “Aurel Vlaicu” University of Arad, Romania.
7. M. PUSTIANU, **M. FOGORASI**, A. BUCEVSCHI, A. POPA, E. AIRINEI,
Qualitative Analyses of Fibers Structure During Technologic Processes
International Symposium *Research and Education in an Innovation Era*, Subsection V:
Textile Engineering, 11-12 November **2010**, “Aurel Vlaicu” University of Arad, Romania.
8. **M. FOGORASI**, M. PUSTIANU, A. BUCEVSCHI, A. POPA, E. AIRINEI
Quantitative Assessment of Fiber Structure Changes During Technologic Processes
International Symposium *Research and Education in an Innovation Era*, Subsection V:
Textile Engineering, 11-12 November **2010**, “Aurel Vlaicu” University of Arad, Romania.
9. M.D. STANESCU, **M. FOGORASI**, S. MIHUTA, M. DOCHIA
Biotreatments of Textile Waste Based on Cotton,
Book of Abstracts of ISEB, ESEB, 9-14 July 2006, LEIPZIG, GERMANY
10. M.D. STANESCU, **M. FOGORASI**, A. POPA, E. CARPUS
Strategies for Cotton Textile Waste Valorization
Book of Abstracts of EnvEdu, 8-11 November, 2006, BRASOV, ROMANIA.
11. M.D. STANESCU, **M.S. FOGORASI**
Enzymes in Textile Processing
*BRAMAT 2005, Proceedings of International Conference on Material Science Company
Engineering, Section 6: Environment Management and Protection
24-26 February, 2005, Braşov, România, ISBN973-635-454-7*
12. M. D. STANESCU, **M.S. FOGORASI**, E. HEINE, F. CHIRALEU
UV-Vis Spectroscopy Study of Enzymatic Solution in Textile Finishing
*Book of Abstract, s 28th International Conference on Solution Chemistry,
DEBRECEN, UNGARIA, 23-28 August 2003, p.168.*
13. **M.S. FOGORASI**
Evaluation of the action of proteolytic enzymes on the wool fibre by kinetic measurements
*Book of Abstract, s 28th International Conference on Solution Chemistry,
DEBRECEN, UNGARIA, 23-28 August 2003, p.138.*
14. **M. FOGORASI**, E. HEINE, A. GRIGORIU
Study of Enzyme Action on the Wool Fibre,
*CORTEP, Proceedings of the 12th Conference of Textile and Leather,
Vol. Technologies & Equipment for Textile Finishing, p.165 –175, Iasi, 17-19 Oct. 2002,
ISBN: 973-8075-48-3.*

Research programme/ projects

a. International programme

Programme/ Project		Period
Programme COST 847 <i>Textile Quality and Biotechnology</i>	Member WG4(Enzymatic Treatment on Proteic Materials)	2000-2005
<i>Romanian –Russian bilateral project: Project GAR R1 2007, Agreement nr. 1/05.02.2008/AR Immobilized Enzyme on/in Microporous Cryogel Type Carrier</i>	Member	2008

b. National Programme

Programme/ Project		Period
Grant PROGRAM BIOTECH <i>Technologies for Bioutilisation of Textile Waste</i>	Member	2004-2006
Grant SECTORIAL PROGRAM 34/20.11.06, <i>Systems for the Increasing of Environmental Protection in Textile and Leather Industry</i>	Member	2006-2008
Grant Excellency Research: <i>Competitive Technologies for the the Waste Valorization in Textile and Leather Industry</i>	Member	2006-2008
Grant Excellency Research <i>PARTEXNET Scientific Partnership in the Field of Nanoscience and Nanotechnologies applied to Textiles</i>	Member	2005-2007
Grant Excellency Research <i>EUROTEXMED Regional Network in the Field of Micro – Nano- Biotechnologies and Textile Materials for Medical Applications</i>	Member	2006-2008
Grant Excellency Research, <i>TENZINUS Novel Technologies applied to Bast Fibers by Means of Chemical and Enzymatical Processes in Ultrasound to achieve Performant Materials</i>	Member	2006-2008