

## SCIENTIFIC ACTIVITY

### ONOFREI ADRIANA - GABRIELA

A. Title of PhD thesis:

#### **THE DYEING COMPATIBILITY OF ANIONIC DYES MIXTURES ON CELLULOSIC AND PROTEIC SUBSTRATES**

#### **B. Speciality books**

**B1.** Onofrei, A.G., Grigoriu, A., Pușcaș, Combinability of dyes in mixture for dyeing textiles, Tehnopress Publishing House, Iași, 2001, ISBN 973 – 8048 – 18 – 4

**B2.** Onofrei, A.G., Monitoring and Diagnosis of Environmental Quality, "Aurel Vlaicu" University Publishing House, Arad, **2008**, ISBN 978-973-752-278-8, 467 pg.

**B3.** Onofrei, A.G., Study of organic and composite materials, "Aurel Vlaicu" University Publishing House, **2010**, ISBN 978-973-9361-21-8, 232 pg.

#### **C. Articles published in professional journals**

**C.1.** Mureșan, R., Onofrei, A.G., "Increasing Production Capacity and Improving Resistance to Dyeing with direct and reactive dyes" (Part I), The works of the Scientific Communication Session of Aurel Vlaicu University, Arad, 16-17 May 1996, Vol 12, ISBN 973 –97708 – 0 – 0, p. 64 – 70.

**C.2.** Grigoriu, A., Pușcaș, E.L., Onofrei, A.G., The correlation between the sorption and the dyes compatibility (Part-I-a), Chronicles of Univ. "Aurel Vlaicu" from Arad, Series: Textiles, 2000, ISSN 1582 – 3431, p. 246 – 251.

**C.3.** Pușcaș, E.L., Hendea, D.M., Onofrei, A.G., "Air permeability - the eco-sanogenic component of textile materials", Chronicles of Univ. "Aurel Vlaicu" from Arad, Series: Textiles, 2000, ISSN 1582 – 3431, p. 289 - 294.

**C.4.** Onofrei, A.G., Pușcaș, E.L., Grigoriu, A., The color measurement used to assess the compatibility of dye mixtures, The works of the International Conference, Altex-II, Sibiu, Section: Technologies and equipment in the textile industry, 2000, ISBN 973 - 651-157-X, p. 295 – 302.

**C.5.** Onofrei, A.G., Pușcaș, E.L., Dincă, N., The automation of dyeing process on the cotton fabric by continuous flow method, Scien. And Techn. Bull. Of Univ. "Aurel Vlaicu" Arad, vol. 6 (VII), 2001, p. 63 - 67.

**C.6.** Onofrei, A.G., Grigoriu, A., Ionescu, Gh., Method of the automated photocolourimetry of dyes solutions in dyeing baths, Proceedings of The XII – th Textile and Leather Romanian Conference, Section: Technologies & Equipments for Textile Finishing, „Gh. Asachi” Technical University, Faculty of Textile and Leather Technology, Iași, octombrie, **2002**, ISBN 973 – 8075 – 48 – 3, p. 151 – 156.

**C.7.** Onofrei, A.G., Ionescu, Gh., Pușcaș, E.L., Grigoriu, A., Determination of the thermodynamic and kinetic parameters for the direct dyes in the mixture (Part I-a), Chronicles of Univ. "Aurel Vlaicu" from Arad, Series: Chemistry, Fascicle: Chemistry and environmental protection, **2002**, ISSN 1582 – 3415, p. 109 – 112.

**C.8.** Onofrei, A.G., Pușcaș, E.L., Grigoriu, A., Ionescu, Gh., Determination of the thermodynamic and kinetic parameters for the direct dyes in the mixture (Part II), Chronicles of Univ. "Aurel Vlaicu" from Arad, Series: Chemistry, Fascicle: Chemistry and environmental protection, **2002**, ISSN 1582 – 3415, p.113 – 117.

**C.9.** Pușcaș, E.L., Grigoriu, A., Onofrei, A.G., The correlation between the sorption and the dyes compatibility (Part II), Chronicles of Univ. "Aurel Vlaicu" from Arad, Series: Textiles, **2002**, ISSN 1582 – 3431.

**C.10.** Pușcaș, E.L., Onofrei, A.G., Cătană, A., Coman, R., Determination of color characteristics obtained by dyeing from dyes mixtures, Chronicles of Univ. "Aurel Vlaicu" from Arad, Series: Textiles, Fascicle: Textile technologies. **2002**, ISSN 1582 – 3431, p. 28 – 35.

**C.11.** Onofrei, A.G., Grigoriu, A., Pușcaș, E.L., The assessment of the direct dyes combinability by photocolourimetric methods, Proceedings of The XII – th Textile and Leather Romanian Conference, Section: Technologies & Equipments for Textile Finishing, „Gh. Asachi” Technical University, Faculty of Textile and Leather Technology, Iași, octombrie, **2002**, ISBN 973 – 8075 – 48 – 3, p. 157 – 161.

**C.12.** Onofrei, A. G., Grigoriu, A., Pușcaș, E. L., The combinability of direct dyes, Part I: The determination of thermodynamic and kinetic parameters of the cotton dyeing process with unitary direct dyes, UTI Bulletin, Section VIII, fasc. 1 - 2, **2002**, p. 69 – 78.

**C.13.** Grigoriu., A., Onofrei, A. G., Pușcaș, E.L., The combinability of acid dyes, Part I.1. The behavior of unitary acid dyes on wool fibers, I.1.1., The behaviour of different unitary acid dyes at individual temperatures, Scientific and Technical Bulletin of “Aurel Vlaicu” University of Arad, Faculty of Food Engineering, Tourism and Environment protection, Series “Chemistry, Food Science & Engineering”, Vol. 7, **2002**, ISSN 1582 – 1021, p. 1- 9.

**C.14.** Onofrei, A. G., Grigoriu, A., Pușcaș, E. L., The combinability of acid dyes, Part I.1. The behavior of unitary acid dyes on wool fibers, I.1.2. The behaviour of individual unitary acid dyes at different temperatures, UTI Bulletin, Section VIII, fasc. 3 - 4, **2002**, p. 28 – 34.

**C.15.** Grigoriu, A., Onofrei, A.G., Puşcaş, E. L., The combinability of acid dyes, Part I.2. The behavior of unitary acid dyes on polyamide fibers, I.2.1. The behaviour of individual unitary acid dyes at different temperatures, UTI Bulletin, Section VIII, fasc. 3 - 4, **2002**, p. 36 – 43.

**C.16.** Onofrei, A. G., Grigoriu, A., Puşcaş, E. L., The combinability of acid dyes, Part I.2. The behavior of unitary acid dyes on polyamide fibers, I.2.2. The behaviour of different unitary acid dyes at individual temperatures, Scientific and Technical Bulletin of “Aurel Vlaicu” University of Arad, Faculty of Food Engineering, Tourism and Environment protection, Series “Chemistry, Food Science & Engineering”, Vol. 7, **2002**, ISSN 1582 – 1021, p. 36 - 44.

**C.17.** Grigoriu, A., Onofrei, A. G., Puşcaş, E. L., The combinability of direct dyes, Part II: The behavior of direct dyes on cotton fibers in (binary and ternary) mixtures, II.1. The behavior of C.I. Direct Orange 39 in mixtures, UTI Bulletin, fasc. 3 - 4, **2003**, p. 64 – 68.

**C.18.** Grigoriu, A., Onofrei, A. G., Puşcaş, E. L., The combinability of direct dyes, Part II: The behavior of direct dyes on cotton fibers in (binary and ternary) mixtures, II.2. The behavior of C.I. Direct Red 23 in mixtures, The Bulletin of Univ. „Aurel Vlaicu” from Arad, Vol. 8, **2003**, p. 36 – 42, ISSN 1582 – 1021.

**C.19.** Onofrei, A. G., Grigoriu, A., Puşcaş, E. L., The combinability of direct dyes, Part II: The behavior of direct dyes on cotton fibers in (binary and ternary) mixtures, II.3. The behavior of C.I. Direct Blue 71 in mixtures, The Bulletin of Univ. „Aurel Vlaicu” from Arad, Vol. 8, **2003**, p. 36 – 48, ISSN 1582 – 1021.

**C.20.** Onofrei, A. G., Grigoriu, A., Puşcaş, E. L., The combinability of direct dyes, Part III: The compatibility indices of direct dyes on cotton fibers, UTI Bulletin, fasc. 3 - 4, **2003**, p. 69 - 73.

**C.21.** Onofrei, A. G., Grigoriu, A., Puşcaş, E. L., The combinability of acid dyes, Part I.3: The behaviour of unitary acid dyes on wool and polyamide fibers, UTI Bulletin, fasc. 1-2, **2003**, p. 73 - 80

**C.22.** Puşcaş, E. L., Grigoriu, A., Onofrei, A. G., The combinability of acid dyes, Part II.1., The behaviour of acid dyes on wool fibers în (binary and ternary) mixtures, II.1.2. The behaviour of C.I. Acid Red 35 in mixtures, UTI Bulletin, fasc. 1-2, **2003**, p. 81 – 85.

**C.23.** Grigoriu, A., Onofrei, A. G., Puşcaş, E. L., The combinability of acid dyes. Part II.2., The behaviour of acid dyes on polyamide fibers in (binary and ternary) mixtures, II.2.3. The behaviour of C.I. Acid Blue 113 in binary and ternary mixtures on polyamide fibers, UTI Bulletin, fasc. 1-2 **2004**, 69 – 73.

**C.24.** Onofrei, A. G., Puşcaş, E. L., The combinability of acid dyes, Part II.2. The behaviour of acid dyes on polyamide fibers în (binary and ternary) mixtures, II.2.4. The compatibility of acid dyes on polyamide fibers, Chronicles of Univ. "Aurel Vlaicu" from Arad, Series: Chemistry, Fascicle: Chemistry and Environmental Protection, **2004**, ISSN 1582 – 3431, p. 142 - 145.

**C.25.** Puşcaş, E. L., Onofrei, A. G., The kinetics study of direct dye mixtures using the color measurement method, Chronicles of Univ. "Aurel Vlaicu" from Arad, Series: Textiles, Fascicle: Textile Technologies, **2004**, ISSN 1582 – 3431, p. 104 – 107.

**C.26.** A. G. ONOFREI, A., GRIGORIU, *Physico – chemical interactions in the anionic dyes solutions. Part. 2. Physico – chemical interactions in the acid dyes solutions. 2.1. The acid dyes – solvent interactions in the absence of the textile fabrics*, UTI Bulletin, Iasi, **2007**.

**C.27.** A. G. ONOFREI, The reduction and the elimination of chromium's ions from the wasted waters, International Scientific Symposium "Achievements and perspectives in horticulture, viticulture, winemaking and forestry", Vol 15 (3), ISBN 978 – 9975 – 946 – 39 – 1, Chişinău, Republic of Moldova, **2007**, pp. 432 – 436.

**C.28.** A. G. ONOFREI, The removal of light ends of liquid petroleum oils which contaminate by accident the soil, International Scientific Symposium "Achievements and perspectives in horticulture, viticulture, winemaking and forestry", Vol. 15 (3), ISBN 978 – 9975 – 946 – 39 – 1, Chişinău, Republic of Moldova, **2007**, pp. 436 – 440.

**C.29.** M. G., MEŞTER, I., DANCIU, A. G. ONOFREI, M., ZDREMŢAN, Additives in food industry. Part. 2. The study of carotenoids from orange peeling, *Proceedings of the International Conference “Agricultural and Food Sciences, Processes and Technologies”*, „Lucian Blaga” University of Sibiu, Faculty of Agricultural Sciences, Food Industry and Environment Protection, Sibiu, **2007**, *The Bulletin of „Lucian Blaga” University of Sibiu*, The „Lucian Blaga” University of Sibiu Publishing House, ISSN 1843 – 0694, 217 – 220.

**C.30.** A. G. ONOFREI, The removal of heavy and noble metals from wasted waters, *Proceedings of the International Conference „Research people and actual task on multidisciplinary sciences”*, Vol. 3, Ecology and Environment protection; Land & Water Use and Environment; Physics, Chemistry, Biology, ISBN 978 – 954 – 91147 – 3 – 7, Lozenec, Bulgaria, **2007**, pp. 53 – 57

**C.31.** A. G. ONOFREI, The correlation between the combinability of dyes and the environment protection. Part. 2. The combinability of acid dyes on wool fibres. 2.1. The compatibility of C.I. Acid Red 35 dye in binary and ternary mixtures, *Proceedings of the International Conference „Research people and actual task on multidisciplinary sciences”*, Vol. 3, Ecology and Environment protection; Land & Water Use and Environment; Physics, Chemistry, Biology, ISBN 978 – 954 – 91147 – 3 – 7, Lozenec, Bulgaria, **2007**, pp. 58 – 63.

**C.32.** M. G., MEŞTER, DANCIU, I., A. G. ONOFREI, Additives in food industry. Part. 1. Natural additives in ice cream, *Proceedings of the International Conference „Research people and actual task on multidisciplinary sciences”*, Vol. 3, Ecology and Environment protection; Land & Water Use and Environment; Physics, Chemistry, Biology, ISBN 978 – 954 – 91147 – 3 – 7, Lozenec, Bulgaria, **2007**, pp. 112 – 116.

**C.33.** A. G. ONOFREI, F., MUNTEANU, M., ZDREMŢAN, A., ANGHEL, A., LUCACI, Fitointercession study of soils contaminated with some heavy metals, *The 6<sup>th</sup> international symposium “PROSPECTS FOR THE 3<sup>rd</sup> MILLENNIUM AGRICULTURE”*, Cluj Napoca, **2007**, USAMV - CN Bulletin, 64, ISSN 1 454 – 2382, p. 437 – 440.

**C.34.** A. G. ONOFREI, The correlation between the combinability of dyes and the environment protection Part. 1. The combinability of direct dyes on cotton fibres. 1.1. The

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**C.35.** A. G. ONOFREI, *Physico – chemical interactions in the anionic dyes solutions. 2. Direct dyes – solvent interactions in the absence of the textile fabrics*, *The Bulletin of Univ. „Aurel Vlaicu” from Arad*, Vol. 12, **2007**, p. 51 – 57, ISSN 1582 – 1021.

**C.36.** A. G. ONOFREI, *The combinability of acid dyes, 1.4.1. The behaviour of some unitary acid dyes on wool fibres, at different temperatures*, *Scientific and Technical Bulletin of „Aurel Vlaicu” University of Arad*, Food Engineering, Tourism and Environmental Protection Faculty, Chemical and Technological Research Center, Series Chemistry, Food Science & Engineering, Year XV, Vol. 14, **2010**, p. 21 – 26, ISSN 1582 – 1021.

**C 37.** D., CHAMBRE, I., TOLAN, A. G. ONOFREI, *The study of the antioxidant addition influence on fars thermo-oxidative stability by using TG / DTG / DTA data*, *INTERNATIONAL SYMPOSIUM RESEARCH AND EDUCATION IN INNOVATION ERA*, 6th Edition, *CHEMISTRY AND APPLICATION FIELDS*, Arad, December 08-10, **2016**.

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