

# LISTA PUBLICAȚIILOR SI PROIECTELOR DE CERCETARE

## LISTA CU PUBLICAȚII RELEVANTE (10) SELECTATE (Vizibile pe WEB of KNOWLEDGE/ Scopus/Google Scholar)

1. Vodnar, D. C., Călinoiu, L. F., **Dulf, F. V\***, Ștefănescu, B. E., Crișan, G., & Socaciu, C. (2017). Identification of the bioactive compounds and antioxidant, antimutagenic and antimicrobial activities of thermally processed agro-industrial waste. *Food Chemistry*, 231, 131-140. (IF 2016/2017 = 4.529)- *corresponding author*.
2. **Dulf, F. V.**, Vodnar, D. C., & Socaciu, C. (2016). Effects of solid-state fermentation with two filamentous fungi on the total phenolic contents, flavonoids, antioxidant activities and lipid fractions of plum fruit (*Prunus domestica* L.) by-products. *Food chemistry*, 209, 27-36. (IF 2016/2017 = 4.529).
3. **Dulf, F. V.**, Vodnar, D. C., Dulf, E. H., & Toșa, M. I. (2015). Total phenolic contents, antioxidant activities, and lipid fractions from berry pomaces obtained by solid-state fermentation of two *Sambucus* species with *Aspergillus niger*. *Journal of Agricultural and Food Chemistry*, 63(13), 3489-3500. (IF 2015 = 2.857).
4. Fărcaș, A. C., Socaci, S. A., **Dulf, F. V.**, Tofană, M., Mudura, E., & Diaconeasa, Z. (2015). Volatile profile, fatty acids composition and total phenolics content of brewers' spent grain by-product with potential use in the development of new functional foods. *Journal of Cereal Science*, 64, 34-42. (IF 2015 = 2.402).
5. Mărgăoan, R., Mărghitaș, L. A., Dezmirean, D. S., **Dulf, F. V\***, Bunea, A., Socaci, S. A., & Bobiș, O. (2014). Predominant and secondary pollen botanical origins influence the carotenoid and fatty acid profile in fresh honeybee-collected pollen. *Journal of Agricultural and Food Chemistry*, 62(27), 6306-6316. (IF 2014 = 2.912) - *corresponding author*.
6. **Dulf, F. V.**, Pamfil, D., Baci, A. D., & Pinte, A. (2013). Fatty acid composition of lipids in pot marigold (*Calendula officinalis* L.) seed genotypes. *Chemistry Central Journal*, 7(1), 8; doi:10.1186/1752-153X-7-8 (IF 2013= 1.663).
7. **Dulf, F. V.**, Oroian, I., Vodnar, D. C., Socaciu, C., & Pinte, A. (2013). Lipid classes and fatty acid regiodistribution in triacylglycerols of seed oils of two *Sambucus* species (*S. nigra* L. and *S. ebulus* L.). *Molecules*, 18(10), 11768-11782. (IF 2013= 2.095).

8. Vodnar, D. C., **Dulf, F. V.**, Pop, O. L., & Socaciu, C. (2013). L (+)-lactic acid production by pellet-form *Rhizopus oryzae* NRRL 395 on biodiesel crude glycerol. *Microbial Cell Factories*, 12(1), 92. doi: 10.1186/1475-2859-12-92 (IF 2013= 4.25).
9. **Dulf, F. V.** (2012). Fatty acids in berry lipids of six sea buckthorn (*Hippophae rhamnoides* L., subspecies *carpatica*) cultivars grown in Romania. *Chemistry Central Journal*, 6(1), 106. doi:10.1186/1752-153X-6-106. (IF 2012= 1.312).
10. **Dulf, F.**, Andrei, S., Bunea, A., & Socaciu, C. (2012). Fatty acid and phytosterol contents of some Romanian wild and cultivated berry pomaces. *Chemical Papers*, 66(10), 925-934. (IF 2012= 0.879).

## TEZA DE DOCTORAT:

**DULF Francisc Vasile (2008).** *Tehnologii de extracție și caracterizarea unor bioresurse vegetale cu fitosteroli* (îndrumător: Prof. Dr. Carmen Socaciu) USAMV Cluj-Napoca, pp. 283.

## CĂRȚI PUBLICATE

1. **Francisc Vasile DULF.** *Acizi grași și steroli din uleiuri comestibile de origine vegetală.* Ed. Mediamira, Cluj-N., Romania, ISBN 978-973-713-352-6, 2017, p. 175.
2. **Francisc Vasile DULF.** *Analiza compușilor lipidici. Acizi grași și fitosteroli.* Ed. Mediamira, Cluj-N., Romania, ISBN 978-973-713-303-8, 2012, p. 132.
3. **Francisc Vasile DULF.** *Elemente de biochimie structurală.* Ed. AcademicPres, Cluj-N., Romania, ISBN 978-973-744-327-4, 2013, p. 162.
4. **Francisc Vasile DULF.** *Chimia mediului.* Ed. AcademicPres, Cluj-N., Romania, ISBN 978-973-744-332-8, 2013, p. 203.

## Îndrumătoare de lucrări practice

1. **Francisc Vasile DULF,** Andreea STĂNILĂ. *Biochimie. Indrumator de lucrari practice. Teste.* Ed. Mediamira, Cluj-N., Romania, ISBN (10) 973-713-132-0; ISBN (13) 978-973-713-132-4, 2006, p. 109.

# LISTA COMPLETĂ A PUBLICAȚIILOR SI PROIECTELOR DE CERCETARE

## Articole în reviste cotate ISI

### 2017

1. Vodnar, D. C., Călinoiu, L. F., **Dulf, F. V\***, Ștefănescu, B. E., Crișan, G., & Socaciu, C. (2017). Identification of the bioactive compounds and antioxidant, antimutagenic and antimicrobial activities of thermally processed agro-industrial waste. *Food Chemistry*, 231, 131-140. (IF 2016/2017= 4.529)- **corresponding author**.
2. Cuibus, L., Dadarlat, D., Streza, M., **Dulf, F. V.**, Diaconeasa, Z., & Socaciu, C. (2017). Rapid, non-destructive determination of butter adulteration by means of photopyroelectric (PPE) calorimetry. *Journal of Thermal Analysis and Calorimetry*, 127(2), 1193-1200. (IF 2016/2017= 1.953).

### 2016

3. **Dulf, F. V.**, Vodnar, D. C., & Socaciu, C. (2016). Effects of solid-state fermentation with two filamentous fungi on the total phenolic contents, flavonoids, antioxidant activities and lipid fractions of plum fruit (*Prunus domestica* L.) by-products. *Food chemistry*, 209, 27-36. (IF 2016/2017= 4.529). **Articol premiat UEFISCDI-2016. Număr citări: 7.** (WEB of KNOWLEDGE/Scopus/Google Scholar).

### 2015

4. **Dulf, F. V.**, Vodnar, D. C., Dulf, E. H., & Toșa, M. I. (2015). Total phenolic contents, antioxidant activities, and lipid fractions from berry pomaces obtained by solid-state fermentation of two *Sambucus* species with *Aspergillus niger*. *Journal of Agricultural and Food Chemistry*, 63(13), 3489-3500. (IF 2015= 2.857). **Articol premiat UEFISCDI-2015. Număr citări: 11.** (WEB of KNOWLEDGE/Scopus/Google Scholar).
5. Fărcaș, A. C., Socaci, S. A., **Dulf, F. V.**, Tofană, M., Mudura, E., & Diaconeasa, Z. (2015). Volatile profile, fatty acids composition and total phenolics content of brewers' spent grain by-product with potential use in the development of new functional foods. *Journal of Cereal Science*, 64, 34-42. (IF 2015= 2.402). **Articol premiat UEFISCDI-2015. Număr citări: 8.** (WEB of KNOWLEDGE/Scopus/Google Scholar).

6. Vodnar, D. C., Pop, O. L., **Dulf, F. V.**, & Socaciu, C. (2015). Antimicrobial Efficiency of Edible Films in Food Industry. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*, 43(2), 302-312. (IF 2015= 0.45).

## 2014

7. Mărgăoan, R., Mărghitaș, L. A., Dezmirean, D. S., **Dulf, F. V.\***, Bunea, A., Socaci, S. A., & Bobiș, O. (2014). Predominant and secondary pollen botanical origins influence the carotenoid and fatty acid profile in fresh honeybee-collected pollen. *Journal of Agricultural and Food Chemistry*, 62(27), 6306-6316. (IF 2014 = 2.912) - *corresponding author*. **Articol premiat UEFISCDI- 2014. Număr citări: 13.** (WEB of KNOWLEDGE/ Scopus/Google Scholar).
8. Dulf, E. H., Dulf, F. V., & Pop, C. I. (2014). Fractional Model of the Cryogenic (13C) Isotope Separation Column. *Chemical Engineering Communications*, 202 (12), 1600-1606. (IF 2014 = 1.104). **Număr citări: 4.** (WEB of KNOWLEDGE/ Scopus/Google Scholar).

## 2013

9. **Dulf F.V.**, Oroian I, Vodnar DC, Socaciu C, Pinte A. Lipid Classes and Fatty Acid Regiodistribution in Triacylglycerols of Seed Oils of Two *Sambucus* Species (*S. nigra* L. and *S. ebulus* L.). *Molecules*. 2013; 18(10):11768-11782. (IF 2012= 2.428). **Număr citări: 13.** (WEB of KNOWLEDGE/ Scopus/Google Scholar).
10. **Dulf F.V.**, Pamfil D., Baci A.D. , Pinte A. Fatty acid composition of lipids in pot marigold (*Calendula officinalis* L.) seed genotypes. *Chemistry Central Journal* 2013, 7:8 doi:10.1186/1752-153X-7-8 (IF 2012= 1.31). **Număr citări: 23. Articol premiat CNCSIS -2013.** (WEB of KNOWLEDGE/ Scopus/Google Scholar).
11. Vodnar DC, **Dulf FV**, Pop OL and Socaciu C. L (+)-lactic acid production by pellet-form *Rhizopus oryzae* NRRL 395 on biodiesel crude glycerol. *Microbial Cell Factories* 2013, 12: 92 doi:10.1186/1475-2859-12-92 (IF 2012= 3.31). **Număr citări: 14**(WEB of KNOWLEDGE/ Scopus/Google Scholar).

## 2012

12. Ungureșan, M.-L., Măicăneanu A., **Dulf, F. V.\***, Gligor, D., Dulf, E.-H., Application of linear regression analysis for iron and copper removal process using natural zeolites, *Journal of Thermal Analysis and Calorimetry* 2012 110:1293–1297; DOI 10.1007/s10973-011-2086-4 -*Corresponding Author* (IF 2012= 1.982). **Număr citări: 5.** (WEB of KNOWLEDGE/ Scopus/Google Scholar).

13. Dulf, E-H.\*, Pop, C.-I.\*, **Dulf, F.\***, Systematic Modeling of the (<sup>13</sup>C) Isotope Cryogenic Distillation Process. *Separation Science and Technology* **2012**, 47(8),1234-1240, DOI: 10.1080/01496395.2011.644614 - *Autori cu drepturi egale*, (IF 2012=1.164). Număr citări: 10. Articol premiat CNCSIS -2012. (WEB of KNOWLEDGE/ Scopus/Google Scholar).
14. Dulf, E-H., Pop, C.-I., **Dulf, F.-V.**. Fractional calculus in 13C separation column control. *Signal, Image and Video Processing* **2012**, 6(3) pp 479-485. DOI 10.1007/s11760-012-0335-z. (IF 2012= 0.409). Număr citări: 12 (WEB of KNOWLEDGE/ Scopus/Google Scholar).
15. **Dulf F.V.**. Fatty acids in berry lipids of six sea buckthorn (*Hippophae rhamnoides* L., subspecies carpatica) cultivars grown in Romania. *Chemistry Central Journal* **2012**, 6:106. doi:10.1186/1752-153X-6-106 (IF 2012=1.31). Număr citări: 36. Articol premiat CNCSIS -2012. (WEB of KNOWLEDGE/ Scopus/Google Scholar).
16. Claudiu-Ioan Bunea, Nastasia Pop, Anca C Babeş, Cristian Matea, **Dulf F.V.\*** and Andrea Bunea. Carotenoids, total polyphenols and antioxidant activity of grapes (*Vitis vinifera*) cultivated in organic and conventional systems. *Chemistry Central Journal* **2012**, 6:66 doi:10.1186/1752-153X-6-66-*Corresponding Author* (IF 2012 = 1.31). Număr citări: 56. Articol premiat CNCSIS -2012. (WEB of KNOWLEDGE/ Scopus/Google Scholar).
17. **Dulf F.V.**, Sanda Andrei, Andrea Bunea, Carmen Socaciu. Fatty acid and phytosterol contents of some Romanian wild and cultivated berry pomaces. *Chemical Papers* **2012**, 66 (10) 925–934 DOI: 10.2478/s11696-012-0156-0. (IF 2012 =0.879). Număr citări: 10. (WEB of KNOWLEDGE/ Scopus/Google Scholar).
18. Adela Pinte, **Dulf F.V.\***, Andrea Bunea, Cristian Matea, Sanda Andrei Comparative analysis of lipophilic compounds in eggs of organically raised ISA Brown and Araucana hens. *Chemical Papers* **2012**, 66 (10) 955–963 DOI: 10.2478/s11696-012-0219-2 - *Corresponding Author* (IF 2012= 0.879). Număr citări: 10. (WEB of KNOWLEDGE/ Scopus/Google Scholar).

## 2010

19. **Dulf F.V.**, Mihaela-Ligia Unguresan , Dan Cristian Vodnar, Carmen Socaciu, , Free and Esterified Sterol Distribution in Four Romanian Vegetable Oil. *Not. Bot. Hort. Agrobot. Cluj* **2010**, 38 (2), Print ISSN 0255-965X; Electronic 1842-4309 Special Issue, pp. 09-13. (IF 2012= 0.59). Număr citări: 13. (WEB of KNOWLEDGE/ Scopus/Google Scholar).

20. Dan Cristian Vodnar, Adriana Paucean, **Dulf F.V.**, Carmen Socaciu, HPLC Characterization of Lactic Acid Formation and FTIR Fingerprint of Probiotic Bacteria during Fermentation Processes. *Not. Bot. Hort. Agrobot. Cluj* **2010**, 38 (1), Print ISSN 0255-965X; Electronic 1842-4309, Special Issue, pp. 109-113. (IF **2012= 0.59**). Număr citări: **19**. (WEB of KNOWLEDGE/ Scopus/Google Scholar).

## 2009

21. Unguresan, Mihaela-Ligia M.; Gligor, Delia Maria; **Dulf, Francisc** and Colosi, Tiberiu. Analogical Modelling and Numerical Simulation of the Adsorption Process for Poly-Phenothiazine Formaldehyde on Graphite Electrodes. *International Journal of Chemical Reactor Engineering* **2009**, Vol. 7 , Article A91. DOI: 10.2202/1542-6580.1974.(IF **2012=0.79**). Număr citări: **2**. **Articol premiat CNCSIS -2009**. (WEB of KNOWLEDGE/ Scopus/Google Scholar).

22. Streza, M., Dadarlat, D., Socaciu, C., Bele C., **Dulf, F.**, Simon, V. , Photopyroelectric detection of vegetable oils' adulteration. *Food Biophysics* **2009**, 4:147–150 (IF **2012= 1.642**). Număr citări: **4**. **Articol premiat CNCSIS -2009**. (WEB of KNOWLEDGE/ Scopus/Google Scholar).

23. Dadarlat, D., Neamtu, C., Streza, M., Socaciu, C., Bele C., **Dulf, F.**. Highly accurate photopyroelectric measurement of thermal diffusivity of vegetable oils. *European Journal of Lipid Science and Technology* **2009**, 111(2), s 148 -s154 (IF **2012= 2.266**). Număr citări: **7**. **Articol premiat CNCSIS -2009**. (WEB of KNOWLEDGE/ Scopus/Google Scholar).

24. C. Socaciu, F. Ranga, F. Fetea, L. Leopold, **F. Dulf** and R. Parlog, Complementary Advanced Techniques Applied for Plant and Food Authentication. *Czech J. Food Sci. (Special Issue)* **2009**, 27, s70-s75 WOS:000269005600024 (IF **2012= 0.685**). Număr citări: **6**. (WEB of KNOWLEDGE/ Scopus/Google Scholar).

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25. **Dulf, F.**, Socaciu, C., Bele, C., Pinte, A., Unguresan, M., Phytosterol and Fatty acid Profile of Four Edible Oils Processed in Romania, *Chem. Listy (Sp. Iss.)* **2008**, 102, s265–s1309, (IF **2012= 0.453**). (Scopus/Google Scholar).

26. Pinte A., **Dulf F.V.**, Bele C., A. Sanda, Fatty acids distribution in the lipid fractions of Calendula officinalis L. seeds oil, *Chemicke Listy (15 Sp. Iss.)* **2008**, 102, s749-s750, ISSN 1213-7103, 0009-2770 (printed), 1803-2389 (on CD-ROM), (IF **2012= 0.453**). (Scopus/Google Scholar).

27. Toma, C., Pinte, A., Bele, C., **Dulf, F.**, Characterization of neutral lipid composition of *Nigella Sativa* L. seeds oil, *Chem. Listy (Sp. Iss.)* **2008**, 102, s803–s804, (IF 2012=0.453). (Scopus/Google Scholar).
28. E.-H. Dulf, C. Festila, **F. Dulf**. Robust Nonlinear Control of a Separation Column for <sup>13</sup>C Enrichment by Cryogenic Distillation of Carbon Monoxide”, *Chem. Listy (Sp. Iss.)*, **2008**, 102, s265–s1311, Physical & Applied Chemistry, pp.s1075-1078. (IF 2012=0.453). Număr citări: 2. (Scopus/Google Scholar).
29. Mihaela-Ligia Unguresan, **Francisc Dulf**, Determination of the Reaction Order for Fast Formation of CuS<sub>2</sub>O<sub>3</sub>”, *Chem. Listy(Sp. Iss.)*, **2008**, 102, s265–s1311. Chemistry of Inorganic Materials, pp.s856-s858 (IF 2012=0.453). (Scopus/Google Scholar).
30. Bele, C., Negrea, O., Pinte, A., **Dulf F.V.**, Lupu D., Biris A. R., Quantitative determination of sulfamide residues in chicken meat by a new solid phase extraction and HPLC- UV for detection , *Chem. Listy(Sp. Iss.)* **2008**, 102, s265–s1309, (IF 2012=0.453). (Scopus/Google Scholar).

### Articole apărute în volume indexate ISI-Proceedings (Vizibile pe WEB of KNOWLEDGE.)

#### 2016

1. EH Dulf, CI Muresan, R Both-Rusu, FV Dulf (2016) Robust Auto-tuning Fractional Order Control of an Aerodynamical System. Proceedings of the 2016 International Conference on Mechatronics, Control and Automation Engineering (MCAE) Book Series: AER-Advances in Engineering Research Volume: 58 Pages: 42-45 Published: 2016. Accession Number: **WOS:000389344600011.**

#### 2015

2. EH Dulf, CI Muresan, R Both, C Fustos, **FV Dulf**. (2015) Electrical Machines & Power Electronics (ACEMP), 2015 Intl Conference on Optimization of Electrical & Electronic Equipment (OPTIM) & 2015 Intl Symposium on Advanced Electromechanical Motion Systems (ELECTROMOTION), 2015 Intl Aegean Conference on. Pages 159-162. Publisher IEEE. Accession Number: **WOS:000382957000029** .  
[https://onedrive.live.com/?authkey=!ALm7ItNF\\_6EFcuA&id=6ADACEAF7D8AD437!2654&cid=6ADACEAF7D8AD437&group=0](https://onedrive.live.com/?authkey=!ALm7ItNF_6EFcuA&id=6ADACEAF7D8AD437!2654&cid=6ADACEAF7D8AD437&group=0)

## 2009

3. Dulf Eva-Henrietta, Cl. Festila, **F.V. Dulf**. Computer Monitoring and Control System of an Isotope Separation Column ", in *the Proceedings of the 13th WSEAS International Conference on Systems - Held as part of the 13th WSEAS CSCC Multiconference (Recent Advances in Systems)*, Rodos Island, Greece, 2009, ISBN 978-960-474-097-0, ISSN 1790-2769, pp. 216-219. Număr citări: 1. (WEB of KNOWLEDGE/ Scopus/Google Scholar). Accession Number: WOS:000272165400027.
4. Dulf, Eva-Henrietta; Pop, Cristina-Ioana; Festila, Clement; **Dulf F.V.**. Robust Feedback Linearization Applied to a Separation Column for (13)C Conference: 2nd Mediterranean Conference on Intelligent Systems and Automation (CISA 2009) Zarzis, Tunisia, **2009**. Source: *Intelligent Systems And Automation* Book Series: *American Institute of Physics Proceedings* no. 1107 33 (2009), Volume:1107 Pages:33-36. DOI:10.1063/1.3106498.<http://adsabs.harvard.edu/abs/2009AIPC.1107...33D>. Număr citări: 1. (WEB of KNOWLEDGE/ Scopus/Google Scholar). Accession Number: WOS:000265071000006

## 2008

5. Delia Gligor, Mihaela-Ligia Unguresan, **Francisc Dulf**. Systemic Approach for Numerical Modelling and Simulation of Koutecky-Levich Equation for NADH Electrocatalytic Oxidation at Graphite Electrodes Modified with a Polymeric Phenothiazine, **2008**. *IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2008 - THETA 16th Edition - Proceedings*, Cluj-Napoca, ISBN: 978-1-4244-2576-1, IEEE Catalog Number: CFP08AQT-PRT, Library of Congress: 2008904446, pp.238-242. (WEB of KNOWLEDGE/ Scopus/Google Scholar).
6. Mihaela-Ligia Unguresan, Delia Gligor, **Francisc Dulf**. Numerical Modelling and Simulation of Laviron Treatment for some Phenothiazine Modified Graphite Electrodes, *International IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics AQTR 2008 (THETA 16)*, **2008**, Cluj-Napoca, ISBN: 978-1-4244-2576-1, IEEE Catalog Number: CFP08AQT-PRT, Library of Congress: 2008904446, pp.235-238. (WEB of KNOWLEDGE/ Scopus/Google Scholar).



## 2006

7. **Dulf F. V.**, C. Bele, Sonia Spinean, Veronica S. Chedea, G. Zegrean, Carmen Socaciu, Comparative studies on fatty acid fingerprint from total lipids and phytosterol esters of some edible plant oils, *Proc., 5<sup>th</sup> International Symposium- Univ. of Agricultural Sciences and Veterinary Medicine, 2006*, Cluj- Napoca, , *Bull. USAMV CN*, **62**, 225-230. Număr citări: 2. (WEB of KNOWLEDGE/ Scopus/Google Scholar).
8. Vicas, Simona; Cheda, Veronica S.; **Dulf, F.**; Socaciu C. The influence of quercetin concentration on its intermolecular interaction with soybean lipoxygenase-1 . Conference: Symposium on Prospects for the 3rd Millenium Agriculture Location: Cluj Napoca, ROMANIA, **2006**; Source: *Bulletin of the University of Agricultural Sciences and Veterinary Medicine*, Vol 62, **2006**: AGRICULTURE , Volume: **62** Pages: 377-380. (WEB of KNOWLEDGE/ Scopus/Google Scholar).
9. Zegrean, G.; Ioana, Brie; **Dulf, F.** Evaluation of albendazole genotoxicity administered to dairy cows using the comet assay Conference: Symposium on Prospects for the 3rd Millenium Agriculture **2006**; Source: *Bulletin of the University of Agricultural Sciences and Veterinary Medicine*, Vol 63, **2006**: Veterinary Medicine, Volume: **63** Pages: 413-419. (WEB of KNOWLEDGE/ Scopus/Google Scholar).

## 2005

10. **Dulf, F.**; Socaciu, Carmen; Bele, C. Qualitative analysis of phytosterols from different extracts Conference: Symposium on Prospects of the Agriculture of the 3rd Millenium Science; Source: *Bulletin of the University of Agricultural Science and Veterinary Medicine*, Vol 61, **2005**: Pages: 388-393. (WEB of KNOWLEDGE/ Scopus/Google Scholar).

**Articole apărute în reviste și volumele unor manifestări științifice indexate în baze de date internaționale (BDI) (Google Scholar /Scopus).**

**2015**

1. Pop, E. A., Diaconeasa, Z. M., Fetea, F., Bunea, A., Dulf, F., Pinte, A., & Socaciu, C. (2015). Carotenoids, Tocopherols and Antioxidant Activity of Lipophilic Extracts from Sea Buckthorn Berries (*Hippophae rhamnoides*), Apricot Pulp and Apricot Kernel (*Prunus armeniaca*). *Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca. Food Science and Technology*, 72(2), 169-176.

**2014**

2. **Dulf, F. V.**, Vodnar, D. C., & Toșa, M. I. (2014). Exploitation of Agro-Industrial By-Products as Substrate for Solid-State Fermentation. *Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca. Agriculture*, 71(2), 200-204.
3. Rus, V. M., **Dulf, F. V.**, Socaciu, C., Pop, O. L., Ranga, F., Fetea, F., & Vodnar, D. C. (2014). Fruits Bioactive Compounds Characterization from a New Food Product. *Notulae Scientia Biologicae*, 6(4), 470-473.
4. Andrei, S., Bunea, A., Pop, E. A., Dulf, F., & Pinte, A. (2014). The Protective Effect of *Hippophae Rhamnoides* Carotenoid Extract Against Lipid Peroxidation in Crude Vegetable Oils. *Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca. Food Science and Technology*, 71(2), 101-106.
5. Dulf, E. H., Muresan, C. I., Both, R., & Dulf, F. V. (2014). Fractional order controller design for a large class of process models. In *Fractional Differentiation and Its Applications (ICFDA), 2014 (Catania, Italy) International Conference on* (pp. 1-6). IEEE. DOI:[10.1109/ICFDA.2014.6967448](https://doi.org/10.1109/ICFDA.2014.6967448)

**2013**

6. Both, R.; Muresan, C.-I. ; Dulf, E.-H. ; **Dulf, F.-V.** Microcontroller Implementation of Digital Fractional Order Controllers for Time Delay Processes. In: *Control & Automation (MED), 2013, 21st Mediterranean Conference on* (2013, Chania, Greece) pp.1445 – 1450, Print ISBN: 978-1-4799-0995-7; INSPEC Accession Number:13797222; DOI :[10.1109/MED.2013.6608911](https://doi.org/10.1109/MED.2013.6608911) (Google Scholar /Scopus).

## 2011

7. Dulf E.H., Cl. Festila, **F.V. Dulf**, C.I. Pop, R. Both. Fractional Order Controller Design for  $^{13}\text{C}$  Separation Column. *Control & Automation (MED)*, 2011 19th Mediterranean Conference on, Corfu, Greece DOI: 10.1109/MED.2011.5983150, pp.582–587. (Google Scholar /Scopus).

## 2010

8. **F.V. Dulf**, M. Ungureșan, I. Oroian, C. Bele and C. Matea. Chromatographic Assessment of Romanian Tall Oils Fatty Acids as Feedstocks for Biodiesel Production, *Research Journal of Agricultural Science*, 2010, 42 (1), ISSN: 2066-1843, pp. 577-582. (Google Scholar /Scopus).
9. **F. Dulf**, S. Andrei, C. Matea, A. Bunea, A. Pintea. Fatty Acids, Phytosterols and Chlorophylls in Leaves of Apple Cultivars (*Malus domestica* Borkh). *Bulletin UASVM Agriculture*, 67 (1)/2010; print ISSN 1843- 5246; El. ISSN 1843-5386, pp. 107-114. **Număr citări: 1.** (Google Scholar /Scopus).
10. C. Bele, C. Matea, A. Bunea, C. Jecan, **F. Dulf**. Determination of Amino Acid Content in Romanian Salami by Ion-Exchange Chromatography, *Research Journal of Agricultural Science* 2010, 42 (2), ISSN: 2066-1843, pp. 211-215. **Număr citări: 1.** (Google Scholar /Scopus).
11. M.-L. Ungureșan, **F.-V. Dulf**, A. Măicăneanu, D. M. Gligor. Iron Exchange on Natural Zeolites. Comparison of Linear and Non-linear Regression Analysis Methods; *IEEE International Conference on Automation Quality and Testing Robotics (AQTR) Cluj-Napoca, 2010*, Proceedings, ISBN: 978-1-4244-6724-2, INSPEC Accession Number: 11484996, DOI: 10.1109/AQTR.2010.5520776, vol. 3. pp. 1-4. **Număr citări: 1.** (Google Scholar /Scopus).
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## **LISTA PROIECTELOR DE CERCETARE**

### **1. Director sau responsabil de proiect**

- 1.1. 2013-2015 – Tema: “The valorification of antioxidant potential of some hydrophilic and lipophilic phytochemicals from agro-industrial Romanian bioprocessed wastes”, Cod: PN-II-RU-PD-2012-3-0245, nr.92/25.06.2013.

Director proiect- Sef lucr. Dr. Dulf Francisc Vasile

Valoare proiect: 299860 lei. Finantator: UEFISCDI

- 1.2. 2015-(2017) “BIOCONVERSION OF AGRO-FOOD WASTES INTO VALUE-ADDED FUNGAL METABOLITES (BIOAGWIVAM)”, Cod: PN-II-RU-TE-2014-4-1255, nr. 15 / 01/10/2015;

Director proiect- Conf. Dr. Dulf Francisc Vasile

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- 1.3. Februarie 2013- Februarie 2014- Proiect/ grant intern USAMV Cluj-Napoca - Tema: Evaluarea potențialului antioxidant al compușilor hidro- și lipofilici recuperați din reziduuri de fructe sâmburoase. Contract nr. 1346/8.02.2013.

Director proiect- Sef lucr. Dr. Dulf Francisc Vasile

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- 1.4. Februarie 2012- Februarie 2013- Proiect/ grant intern USAMV Cluj-Napoca - Tema: Compoziția în acizi grași a principalelor fracții lipidice- neutre și polare- din cătină ssp. Carpatica. Contract nr. 1215/4- 6.02.2012.

Director proiect- Sef lucr. Dr. Dulf Francisc Vasile

Valoare proiect: 12000 lei.

## **2. Membru în echipa proiectelor internaționale:**

**2.1. Food Fermentations for Purpose: Health Promotion and Biopreservation-LONGLINE; JPI. - membru în echipa de cercetare; 2016-2019.** Responsabil USAMV C-N.- Conf dr. Dan C. VODNAR.

## **3. Membru în echipa proiectelor *Bilateral Cooperations*:**

3.1. Distributed Control Strategies with Application to Robust Fractional Order Controllers for Distillation, UEFISCDI, Bilateral Cooperations, 763 RO-CY/2014, 13000 EUR, 2014-2015, <http://evadulf.wix.com/ro-cy-763>. coordonator UTCN-membru in echipa UTCN- director de proiect prof. Dr. DULF Eva-H.

## **4. Membru în echipa proiectelor naționale:**

4.1. POC-A1-A1.1.4-E-2015; 2016-2020-Tip de proiect: Proiecte CD pentru atragerea de personal cu competențe avansate din străinătate; ID: P\_37\_637: Dezvoltarea și modelarea bioprocесelor pentru obținerea de 1,3-propandiol (pd) și acid citric din glicerol brut, cu aplicații în industria alimentară; Director de proiect:: Ing. dr. Monica Trif- Valoare proiect: 6.611.800,00 lei. Institutia finantatoare: ANCSI

4.2. PN-II-PT-PCCA-2013-4-0743,2014-2016. O nouă generație de băuturi probiotice funcționale cu impact asupra sănătății gastrointestinale/ *New generation of probiotic functional beverages with impact on gastro intestinal health*. Finantator: UEFISCDI. Director de proiect: dr. D.C. Vodnar

4.3. Modelarea structurala complexa a coloanelor de separare izotopica pentru strategii avansate de control, PNII, IDEI ID\_228/2008, Contract nr.630/2009, 2009-2011- coordonator UTCN-membru in echipa UTCN- director de proiect DULF Eva-H.

4.4. Proiect PN II -22094 -2008-2011- Tehnologie de transesterificare enzimatica destinata obtinerii de biocarburanti de generatia a 2-a, CARENZI- membru in echipa. Responsabil USAMV C-N -Prof dr. Alexandru Naghiu.

4.5. Proiect PN II (5149) -2007-2010-Parteneriate: Metodologii avansate (chemometrice si instrumentale) aplicate pentru evaluarea amprentei specifice de calitate si autenticitate a unor alimente functionale (AMPRENTAL) -membru in echipa. Responsabil- Prof. Dr. Carmen Socaciu.

4.6. PN-CD nr.2488/2007, durata 2007-2010; COORDONATOR I.T.I.M. CLUJ-NAPOCA. Influența microundelor asupra compușilor bioactivi prezenți în plantele autohtone -membru in echipa.Responsabil- Prof. Dr. Carmen Socaciu.

4.7. PNCD II. 51-067- 2007- 2010; COORDONATOR I.C.B. CLUJ- NAPOCA. Conservarea biodiversității și caracterizarea resurselor genetice la măr în

contextul stocării acestora în bănci de gene -membru in echipa.Responsabil USAMV- Conf. Dr. Adela Pinte.

- 4.8. CEEEX MODUL I- PARTENER 2006-2008 : Coordonator Institutul National de CD Pentru Tehnologii Izotopice Si Moleculare (INCDTIM) Metode fototermice si tehnici complementare pentru studiul calitatii, autenticitatii, degradării si contrafacerii uleiurilor vegetale-membru in echipa. Responsabil- Prof. Dr. Carmen Socaciu.
- 4.9. CEEEX – MODUL III- 2006-2008 : Coordonator USAMV CLUJ-NAPOCA Retea tematica de promovare a parteneriatului european in microtehnologii de bioincapsulare cu implicatii in nutritie, biofarmacie si nanomedicina ( brg-ronet) -membru in echipa.. Responsabil- Prof. Dr. Carmen Socaciu.
- 4.10. CEEEX – MODUL IV 2006-2008- COORDONATOR USAMV CLUJ-NAPOCA-Extinderea competentei laboratoarelor agrical pentru evaluarea si certificarea autenticității, calitatii si conformitatii unor produse alimentare funcționale, conform normelor UE -membru in echipa. Responsabil- Prof. Dr. Carmen Socaciu.
- 4.11. CEEEX- Modul I-2006-2008 : COORDONATOR USAMV CLUJ-NAPOCA- Tehnici avansate de determinare a reziduurilor chimice din alimentele de origine animală-membru in echipa.Responsabil- Prof. Dr. Bele Constantin.
- 4.12. VIASAN 360/2004;partener, Coordonator UMF Cluj Napoca. Studiul efectului hipocolesterolemiant al alimentelor nutraceutice îmbogățite cu fitosteroli obținute din proteine vegetale ALFIT (2004-2006) -membru in echipa. Responsabil- Prof. Dr. Carmen Socaciu.

## LISTA PARTICIPĂRILOR CU PREZENTĂRI ORALE SAU POSTER LA SIMPOZIOANE INTERNAȚIONALE/NAȚIONALE

1. *The 8th - Congress Pigments in Food- VIII 2016-EuCheMS – European Association for Chemical and Molecular Sciences*, CLUJ-NAPOCA, ROMANIA, 28.06-01.07.201; **Francisc V. Dulf**, Dan C. Vodnar, Andrea Bunea, Adela Pinte, Carmen Socaciu (2016); Phenolic compounds, flavonoids, carotenoids and antioxidant capacity of apricot (*Prunus armeniaca* L.) pomace fermented by two filamentous fungi in solid state system. Poster-
2. *The 15th International Symposium “PROSPECTS FOR THE 3rd MILLENNIUM AGRICULTURE”*, Cluj-N., Romania; 29.09.2016- 01.10.2016.**Francisc V. Dulf**, Dan C. Vodnar, Adela Pinte (2016); Phenolic compounds and antioxidant capacity of apricot pomace fermented by filamentous fungal strains in solid state system. Poster-
3. *The 8th - Congress Pigments in Food- VIII 2016-EuCheMS – European Association for Chemical and Molecular Sciences*, CLUJ-NAPOCA, ROMANIA, 28.06-01.07.2016.Oana Lelia POP, **Francisc Dulf**, Lucian CUIBUS, Dan Cristian VODNAR, Cristina Coman, Carmen, SOCACIU, Ramona SUHAROSCHI. Microwave effect on free and encapsulated with or without seabuckthorn, *Lactobacillus casei* ATCC 393 in yoghurt. Poster-
4. The 14th International Symposium prospects for the 3rd Millenium Agriculture,USAMV Cluj, 24-26 sept , **2015**, Cluj-Napoca, Romania: OPTIMIZATION OF EXTRACTION CONDITIONS OF TOTAL PHENOLICS FROM SAMBUCUS BERRY POMACES(*poster*).
5. Acemp - Optim - Electromotion Joint Conference 2–4 September **2015**, Antalya, Turkey: *Auto-tuning Fractional Order Velocity Control of a DC Motor (prezentare orală)*.
6. The Annual International Conference of the RSBMB. Baile Felix, Oradea, June 5-6th, **2014** : *Fatty acids and carotenoids in some apricot cultivars (poster)*.
7. The 13th International Symposium “Prospects for the Third Millennium Agriculture”, 25-27 Septembrie **2014**, USAMV, Cluj-Napoca: *Exploitation of Agro-Industrial By-Products as Substrate for Solid-State Fermentation (prezentare orală)*.
8. 21st Annual International Conference on Composites or Nano Engineering (ICCE-21) July 21-27, **2013**, Tenerife, Canary Islands; Meeting Website: <http://www.icce-nano.org>. *Fractional order model of the 13C isotope separation column- prezentare orală*.

9. 21st Mediterranean Conference on (Control & Automation- MED- 2013, Chania, Greece) 25-28 June **2013**: *Microcontroller Implementation of Digital Fractional Order Controllers for Time Delay Processes.*- prezentare orală.
10. **The 2<sup>nd</sup> Annual Meeting of the FA1006-COST - "Plant natural Products: From science to bioproducts"**, Cluj-Napoca (Romania), from **26th to 28th of September 2012**. <http://sites.usamvcluj.ro/plantengine/organizers-and-sponsors>. - *membru în comitetul de organizare*.
11. 5th Meeting on Chemistry & Life BRNO, Czech Republic September 14-16, **2011** Organized by Faculty of Chemistry Brno University of Technology: *Phytosterol Content of Some Romanian Wild and Cultivated Berries Pomace*- prezentare orală.
12. 1<sup>st</sup> Central and Eastern European on Thermal Analysis and Calorimetry conference (CEEC-TAC1), 7- 10 September **2011**- Craiova, Romania. *Analogical Modelling of the Fast Interaction of Cu<sup>2+</sup> with S<sub>2</sub>O<sub>3</sub><sup>2-</sup> in Aqueous Solution*- poster.
13. A IV-a editie a Simpozionului International "Tendinte de Dezvoltare în Agricultura Europeana" ,Facultatea de Agricultura din Timisoara în colaborare cu Facultatea de Agricultura din Novi Sad, 20-21 mai **2010**, Timisoara, Romania: *Chromatographic Assessment of Romanian Tall Oils Fatty Acids as Feedstocks for Biodiesel Production*- prezentare orală. [http://agricultura.usabtm.ro/Simpozion\\_Inv/Symposium2010en.php](http://agricultura.usabtm.ro/Simpozion_Inv/Symposium2010en.php).
14. IEEE International Conference on Automation Quality and Testing Robotics (AQTR), 2010, 28-30 Mai **2010**, Cluj-Napoca: *Iron Exchange on Natural Zeolites. Comparison of Linear and Non-linear Regresion Analysis Methods*- poster.
15. AUF – BIOVEG Réseau de Chercheurs « Biotechnologies, Amélioration des Plantes et Sécurité Alimentaire »27 – 29 Septembre **2010** Université des Sciences Agronomiques et Vétérinaires de Cluj-Napoca (Roumanie): *Free and Esterified Sterol Distribution in Four Romanian Vegetable Oil*- prezentare orală. [http://www.usamvcluj.ro/index\\_fr.php](http://www.usamvcluj.ro/index_fr.php).
16. The 9th International Symposium prospects for the 3rd Millenium Agriculture,USAMV Cluj, 30 sept-2 oct, **2010**, Cluj-Napoca, Romania: *Fatty Acids, Phytosterols and Chlorophylls in Leaves of Apple Cultivars (Malus domestica Borkh)*- prezentare orală.
17. The Annual International conference of SRBBM Journal of Biochemistry, Cluj-Napoca,1-2 octombrie, **2009**: *Phytosterols and fatty acids variability in leaves of Malus Domestica cultivars*- poster.

18. 13th WSEAS International Conference on Systems - Held as part of the 13th WSEAS CSCC Multiconference (*Recent Advances in Systems*), Rodos Island, Greece, **2009**: *Computer Monitoring and Control System of an Isotope Separation Column- prezentare orală.*
19. 2nd Mediterranean Conference on Intelligent Systems and Automation (CISA 2009) Location: Zarzis, TUNISIA Date: MAR 23-25, **2009**. *Robust Feedback Linearization Applied to a Separation Column for (13)C - prezentare orală.*
20. 17<sup>th</sup> International Conference on Control Systems and Computer Science, Bucharest, Romania 26-29 May **2009**: Theoretical Preliminaries Associated to Analogical Modelling and Numerical Simulation of the Adsorption Process for Poly-phenothiazine Formaldehyde on Graphite Electrodes- *poster.*
21. 15th EURO FOOD CHEM conference 5-8 July **2009** Copenhagen, Denmark: *Selected biomarkers and methods to fingerprint vegetable functional oils originating from Romania- poster.*
22. 5th Black Sea Basin Conference on Analytical Chemistry” September 23<sup>th</sup> - 26<sup>th</sup> **2009**, Fatsa, Turkey, *Fatty acid and sterol profile of different plant oils obtained from seeds and fruits cultivated in Romania- prezentare orală.*
23. First European Food Congress, 4-9 Nov. **2008**, Ljubljana, Slovenia: *Applied metabolomics in Romania: from plant fingerprint to food quality and authenticity using advanced analytics- poster.*
24. International IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics AQTR **2008** (THETA 16), 22-25 mai 2008, Cluj-Napoca: *Numerical Modelling and Simulation of Laviron Treatment for some Phenothiazine Modified Graphite Electrodes- poster.*
25. 43<sup>st</sup> Croatian & 3<sup>rd</sup> International Symposium on Agriculture, Opatija- Croatia, **2008**. *Fatty acid profile of phytosterol esters and total lipids fractions from cold pressed nonrefined sesame and walnut oil - prezentare orală.*
26. Metabomeeting, Lyon, 28-29 April **2008**. *Plant and food metabolomics: fingerprint of phytochemicals as authenticity markers for medicinal plant extracts and functional oils -poster.*
27. Int. Symposium of RSBBM, Romanian Journal of Biochemistry, Bucharest, 29-31 mai **2008**. *Plant and food metabolomics: advanced analytics and statistics- poster.*
28. 3<sup>rd</sup> International Seabuckthorn Association Conference (ISA-2007), Quebec, Canada **2007**. *Quality and Authenticity of Seabuckthorn Oils using Succesive UV-*

- Vis, FT-IR, NMR Spectroscopy and HPLC-, GC- Chromatography Fingerprints - poster.*
29. The 5<sup>th</sup> Euro Fed Lipid Congress and 24<sup>th</sup> Symposium of the Nordic Lipidforum, Gothenburg, **Suedia 2007**. *Application of Photopyroelectric Techniques, Together with Classical Ones for Characterization of Some Vegetable Oils -poster.*
  30. 6<sup>th</sup> International Symposium- Univ. of Agricultural Sciences and Veterinary Medicine, Cluj- Napoca, **2007**. *Qualitative and quantitative markers to identify the quality and adulteration of olive oil with rapeseed oil.- prezentare orală.*
  31. Conferința internațională Agricultural and Food Sciences, Processes and Technologies, 26-27aprilie, Sibiu, **2007**. *Comparative study of two types of powder milk: whole milk powder and infant formula -poster.*
  32. 5<sup>th</sup> International Symposium- Univ. of Agricultural Sciences and Veterinary Medicine, Cluj- Napoca, 5-6 October **2006**. *Comparative studies on fatty acid fingerprint from total lipids and phytosterol esters of some edible plant oils - prezentare orală.*
  33. 41<sup>st</sup> Croatian & 1<sup>st</sup> International Symposium on Agriculture, Opatija- Croatia, 13-17 February **2006**. *Evaluation of different bioactive components in plant oils - prezentare orală.*
  34. The 15<sup>th</sup> International Conference on Control Systems and Computer Science (CSCS-15), Bucharest, **2005**. *Modelling and Simulation of the Isotopic Separation Process -poster.*
  35. Conference of Romanian PhD Students (RODOSZ), Cluj- Napoca, **2005**, *Phytosterols: Structure and Sources- poster.*
  36. 4<sup>th</sup> International Symposium- Univ. of Agricultural Sciences and Veterinary Medicine, Cluj- Napoca, 6-7 October **2005**. *Qualitative Analysis of phytosterols from different extracts - prezentare orală.*
  37. The 13th International Conference on Control Systems and Computer Science, May 31-June 3, **2001**, Bucharest. *Distributed Parameter Systems Modelling. Application for the N<sup>15</sup> Isotopic Separation Column- poster.*
  38. 7th International Symposium on Automatic Control and Computer Science, SACCS 2001, Iași, October 26-27, **2001**. *Some Optimal Conditions Regarding the N<sup>15</sup> Isotopic Separation Column- poster.*

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**Conf. dr. Dulf Francisc V.**

