

RESEARCH ACTIVITY

2004-2018

Name: CONDRAT

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Function: Lecturer

Owner at: Department of Technical and Nature Sciences,
Faculty of Food Engineering, Tourism and Environmental Protection

A. Doctoral Thesis

Contributions to obtaining of some plant (phanerogams) extracts with antioxidant effect, Faculty of Industrial Chemistry and Environmental Engineering, Polytechnic University of Timisoara, 2010, Diploma Series H, Nr.0008920, OMECTS Nr.4542 of 28.07.2010

1. ISI articles

IS 1. D. Condrat, M.R. Szabo , F. Crişan , A.X. Lupea , Antioxidant activity of some phanerogam plant extracts, Food Science and Technology Research, Japonia, **15** (1), 95-98 (2009).

IS 2. D. Condrat, F.Crişan , M.R. Szabo , D.Chambree , A.X.Lupea , Flavonoids of plant species (Angiospermatophyta, Spermatophyta) and their antioxidant activity, Revista de chimie, România, **60** (11), 1129-1134 (2009).

IS 3. D. Condrat, M.R. Szabo, D. Radu , A.X.Lupea , Plant species from the Angiospermatophyta and Spermatopyta genus with antiradical and antimicrobial activity, Oxidation Communications, Bulgaria, **32** (4), 924-930 (2009).

IS 4. D. Condrat, C.Mosoarca, D.A. Zamfir , F.Crişan , M.R.Szabo , A.X. Lupea , Qualitative and quantitative analysis of gallic acid in *Alchemilla vulgaris*, *Allium ursinum*, *Acorus calamus* and *Solidago virga aurea* by mass spectrometry with chip – electrospray ionization and high performance liquid chromatography, Central European Journal of Chemistry, Germania, Springer – Verlag GmbH, **8** (3), 530 - 535 (2010).

IS 5. D. Condrat, L. Copolovici, Dana Copolovici, Quantitative analysis of antioxidants from fruits extracts of *Vaccinium myrtillus*, *Crataegus monogyna* and *Rosa canina*, , Oxidation Communications, Bulgaria, 2016 (acceptance no. 3313/20.11.2016).

2. Articles in foreign journals

D. Condrat, F. Harja, A.X. Lupea, Determination of ascorbic acid by the 2,6-dichlorophenol-indophenol method in *Alchemilla vulgaris*, *Allium ursinum*, *Acorus calamus*, and *Solidago virga-aurea* species, 2nd International Conference "Research People and Actual Tasks on Multidisciplinary Sciences" 10 – 12 June, Lozenec, Bulgaria, 243-245, **2009**, ISSN 1313 - 7735.

D. Condrat, F. Harja, A.X. Lupea, Determination of the antocyanidins total content in *Agrimonia Eupatoria*, *Veronica officinalis* and *Viscum album* species, D, 2nd International Conference "Research People and Actual Tasks on Multidisciplinary Sciences" 10 – 12 June, Lozenec, Bulgaria, 246-248, **2009**, ISSN 1313 - 7735.

3. Articles in Romanian journals recognized by CNCSIS (category A, B, C, D)

D. CONDRAT – „Actions mechanism of radicals and organism defense mechanism against them”, *Analele Universității din Craiova*, **2005**, vol X, 355–358, ISSN 1435-1275

D. CONDRAT – „Pharmacologic dynamics and therapeutic application of natural antioxidants”, *Analele Universității din Craiova*, **2005**, vol X, 359–364, ISSN 1435-1275

D. CONDRAT, Usage and applicability fields of ascorbic acid in food industry, Scientific and Technical Bulletin, Arad, Year XI, Vol.10, **2005**, ISSN, 1582-1021.p.113

POPESCU, S.PALCU, D.RADU, **D. CONDRAT** – The effect of using essential mint oil in the manufacture of acidic dairy products, *Lucrările celui de-al VI-lea Simpozion Internațional*, România-Serbia □ Muntenegru-Ungaria; **2004**, Timișoara, România, 684-689, ISBN 973-8359-26-0

D. Condrat – „Determination methods of the antioxidant activity of some compounds from plants” *Analele Universității din Craiova*, 11, 167-172, **2006**, ISSN 1435-1275

- D. Condrat, F. Harja**–, „The effects of phenol present in the environment”
Analele Universității din Craiova, 11, 229-232, **2006**, ISSN 1435-1275
- M. Medelean, S. Cacig, A. X. Lupea, **D. Condrat**–, „Investigation of the antioxidant activity of a flavonoids series by computational methods”,
Zilele Academice Aradene ediția a XVI-a, 12-14 mai, Arad, **2006**
- D. Condrat, A. X. Lupea** - “ Evaluarea activității de eliminare a radicalilor liberi a extractelor etanolice din plante fanerogame prin metoda DPPH
Evaluation of phanerogam plant extracts free radical removal activity by DPPH method , Scientific and Technical Bulletin, Arad, 12, **2007**, ISSN 1582-1021.
- D. Condrat, F. Harja, A. X. Lupea** –, „Qualitative and Quantitative Study in Tannins From the Extracts Plants” Analele Universității din Craiova, 12, 167-172, **2007**, ISSN 1435-1275
- D. Condrat, F. Harja, A. X. Lupea** –, „Determination Antiradical Activity of Vegetal Extracts” Analele Universității din Craiova, 12, **2007**, ISSN 1435-1275
- D. Condrat, F. Harja, A. X. Lupea** –, „Determination of ascorbic acid through the 2,6-dichlorophenol method from the Angiospermatophyta species”
Analele Universității din Craiova, 12, 357-360, **2008**, ISSN 1435-1275
- D. Condrat, F. Harja, A. X. Lupea** –, „Determination of the total content in anthocyanidins from the Alchemilla vulgaris, Allium ursinum, Acorus calamus and Solidago virga-aurea” Analele Universității din Craiova, 12, 361-364, **2008**, ISSN 1435-1275
- D. Condrat, D. Chambree, F. Harja, A. X. Lupea**, Analysis of the thermal stability for the extra-virgin olive oil with or without added extract of Solidago Virga aurea, Analele Universității din Craiova, 14, **2009**, ISSN 1435-1275
- D. Condrat, F. Harja, A. X. Lupea**, Analysis of the polyphenols from the Angiospermatophyta and Spermatophyta Plant Species, Analele Universității din Oradea, **2009**, ISSN 1583 - 4301

D. Condrat, C. Mosoarca, A.D. Zamfir, A.X. Lupea, Analysis of Pyrogallol from *Alchemilla vulgaris* extracts by Chip – Nanoelectrospray Ion Trap Mass Spectrometry, 1ST International Conference of the Romanian Society for mass Spectrometry, Aprilie 25 – 29, 81, **2010**.

D. Condrat, F. Crişan , F. Harja - Quantitative determination of kampferol and myricetin from *Ocimum basilicum* and *Thymus vulgaris* species using high performance liquid chromatography , *Analele Universităţii din Craiova*, 15, **2011**, ISSN 1435 – 1275.

D. Condrat, F. Crişan , F. Harja - Quantitative analysis of gallic acid from *Apium graveolens*, *Equisetum arvense* and *Petroselinum crispum* using high performance liquid chromatography, *Annals of West University of Timisoara, Series of Chemistry* , 20(1), **2011**.

D. Condrat, Popescu-Mitroi Ionel, Crişan Florin, **2013** – The quantitative analysis of some flavonoids in the species *Achillea millefolium*, *Anethum graveolens*, *Origanum majorana* and *Rosmarinus officinalis* *Annales of the University of Craiova*, vol XVIII (LIV), p. 455-458, ISSN 1453-1275. BDI Index ISI Thomson Reuters Master Journal List.

D. Condrat, Ionel Popescu-Mitroi, Florin Crişan, **2013** – Quantitative determination of kampferol from *Apium graveolens* and *Petroselinum crispum* species using high performance liquid chromatography, *Proceedings of the XVth International Symposium „Young People and Multidisciplinary Research”*, Section Agriculture, Chemistry, Ecology and Environment, Timişoara, România, p. 67-70, ISSN 1843-6609.

Ionel Popescu-Mitroi, **D. Condrat**, Felicia Stoica, **2013** – Vitamin C contents change in milk and acid dairy products by applying heat treatment and during storage, *Proceedings of the XVth International Symposium „Young People and Multidisciplinary Research”*, Section Agriculture, Chemistry, Ecology and Environment, Timişoara, România, p. 71-75, ISSN 1843-6609.

Popescu Mitroi I., **Condrat D.**, Radu D., Stoica F., Assessment of the antibacterial action of dry red and white wines produced in the Minis – Maderat Vineyard, vol. XIX, *Analele Universitatii din Craiova, Horticulture And Food Produce Processing Technology*, p.269-274, ISSN 1453-1275, Craiova, 2014.

Copolovici L., **Condrat D.**, Dincă N., Quantitative structure-fragmentation relationship technique applied for discrimination of cis-ocimene and trans-ocimene from lavender oil, Scientific and Technical Bulletin, Arad, Vol.14/ Nr.1, **2017**, 28-32.

4. Articles in Romanian journals not recognized by CNCSIS

5. Articles published at international conferences

D. Condrat, F. Harja, -, „Vitamin C and its derivatives as antioxidants”, the 8th International Symposium "Youth and multidisciplinary research", Timișoara 11-12 mai, 51-54, 2006, ISBN-10 973-8359-39-2, ISBN-13 978-973-8359-39-0.

6. Articles published in summary at international conferences

7. Articles published at national conferences

8. Articles published in summary at national conferences

9. Books *Authors, title of the book, Publishing House, publishing city, year of publication, ISBN, no. of pages*

9.1 Books, monographs or equivalents

R. Szabo, A. Popa, C. Ursachi, **D. Condrat**, „Oxidation in food and biological systems and prevention methods”, „Aurel Vlaicu” University Publishing House, Arad, **2007**, ISBN: 978-973-752-112-5, pp.252

D. Condrat, Contributions to obtaining of some plant (phanerogams) extracts with antioxidant effect, PhD Thesis, Series 4, No.36, Politehnica Publishing House, Timișoara, 2010, ISSN 1842 – 0223, ISBN 978 – 606 – 554 – 063 – 7, pp.218

10.2 Laboratory Guides.

1. N.Dincă, V.Grosu, **D.Condrat**, A. Bodescu, Organic Chemistry - Practical works, Aurel Vlaicu" University Publishing House , Arad **2010**, 52p, ISBN 978-973-752-288-7
2. N.Dincă, V.Grosu, **D.Condrat**, Food chemistry - Practical works, „Aurel Vlaicu" University Publishing House , **2010**, 56p (28p) ISBN 978-973-752-216-0
3. N.Dinca, G. Onofrei, I.Tolan, **D.Condrat**, C.Ursachi, F.Harja, Physical and chemical analysis, Practical works, Mirton Publishing House, Timisoara, 2004.
4. **D.Condrat**, C.Ursachi, Forgery of food products and their detection, „Aurel Vlaicu" University Publishing House, Arad, 2016, 99 pg., ISBN 978-973-752-746-2.

11. Participations at scientific events and exhibitions of international visual arts - posters

1. Copolovici L, **Condrat D**, Dincă N., Thermochemical data obtained by quantum chemical calculation for identification by differential mass spectrometry of some biologically active compounds from lavender oil, International Symposium Research and Education in Innovation Era, Arad, România, 2016.
2. **Condrat D.**, Copolovici L., Copolovici Dana, Analysis of anthocyanidins in Crataegus monogyna and Rosa canina ethanolic extracts, International Symposium Research and Education in Innovation Era, Arad, România, 2016.
3. Diaconescu Daniela, Zdremțan Monica, Meșter Mihaela, Hălmăgean L., **Condrat D.**, Quality improving of Whole Wheat Bread by Using Xylanase, International Symposium Research and Education in Innovation Era, Arad, România, 2016.

4. Condrat Dumitru, Nicolae Dincă, Calculated thermo-chemical data for discrimination by differential mass spectrometry of some $C_{10}H_{18}O$ isomers from lavender oil, Institute of Research-Development-Innovation in Technical and Natural Sciences, Arad, 2018.
5. Mihaela Meșter, Dumitru Condrat, Daniela Diaconescu, Monica Zdremțan, Lucian Hălmăgean, Andreea Lupitu, Ștefania Gâdea, Improving yoghurt quality by adding extracts from *Momordica charantia* and *Cucumis metuliferus*, Institute of Research-Development-Innovation in Technical and Natural Sciences, Arad, 2018.

I declare on my own responsibility that the data presented is in accordance with reality.

Date :
1.01.2019

Signature:
Lecturer Eng. Condrat Dumitru, PhD

