

RESEARCH ACTIVITY 2004-2024

Name: **COND RAT**

First name: **DUMITRU**

Function: **HEAD OF WORKS**

Holder at: Department of Technical and Natural Sciences,

Faculty of Food Engineering, Tourism and Environmental Protection

A. Doctoral thesis

Contributions to obtaining plant extracts (phanerogams) with antioxidant effect, Faculty of Industrial Chemistry and Environmental Engineering, Polytechnic University of Timisoara, 2010, Diploma Series H, No.0008920, OMECTS No.4542 of 28.07.2010

1. ISI works

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

IS 2. D. Condrat, F. Crisan, M.R. Szabo, D.Chambree, A.X.Lupea, Flavonoids from plant species (Angiospermatophyta, Spermatophyta) and their antioxidant activity, Journal of Chemistry, Romania, **60** (11), 1129-1134 (**2009**).

IS 3. D. Condrat, M.R. Szabo, D. Radu, A.X. Lupea, Plant species from the Angiospermatophyta and Spermatophyta 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 virgă 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. Meşter M., Condrat D., Zdremţan M., Diaconescu D., Phenolic Profile And Antioxidant Activity Of Some Species Of The Cucurbitaceae Family, SGEM, Albena, Bulgaria, 19, 845-852 (**2019**).

IS 6. Diaconescu D., Zdremţan M., Meşter M., Hălmăgean L., Condrat D., Quality Improving of whole wheat bread by using xylanase, SGEM, Albena, Bulgaria, 19, 875-880 (**2019**).

IS 7. Claudiu Ştefan Ursachi, Simona Perţa Crişan, Iolanda Tolan, Dorina Rodica Chambre, Bianca Denisa Chereji, Dumitru Condrat, Florentina Daniela Munteanu, Development and Characterization of Ethylcellulose Oleogels Based on Pumpkin Seed Oil and Rapeseed Oil, MDPI Journals, volum 10, 6, 2024.

2. Works in foreign magazines

D.Condrat, F.Harja, A.X.Lupea, Determination of ascorbic acid by the 2,6-dichlorophenol-indophenol method from the species Alchemilla vulgaris, Allium ursinum, Acorus calamus, Solidago virgă-aurea, 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, „Determinarea conținutului total de atocianidine din speciile de Agrimonia Eupatoria, Veronica officinalis, Viscum album, 2nd International Conference" Research People and Actual Tasks on Multidisciplinary Sciences "10 – 12 June , Lozenec, Bulgaria , 246-248, **2009**, ISSN 1313 - 7735.

3. Works in Romanian journals recognized by CNCSIS (categories A, B, C, D). **D.**

D. Condrat – „Actions mecanism of radicals and organism defense mecanism against them”, Annales of the University of Craiova, **2005**, vol X, 355–358, ISSN 1435-1275

D. Condrat – „Pharmacologic dynamics and therapeutic aplication of natural antioxidants”, Analele Universtății 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 peppermint essential oil in the manufacture of lactic acid products, Proceedings of the 6th International Symposium, Romania-Serbia& Montenegro-Hungary, **2004**, Timisoara, Romania, 684-689, ISBN 973-8359-26-0

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

D. Condrat, F.Harja- "The effects of phenol present in the environment" Annales of the University of Craiova, 11, 229-232, **2006**, ISSN 1435-1275

M.Medelean, S.Cačig, A.X.Lupea, **D. Condrat**-„Investigation of the antioxidant activity of a series of flavonoids by computational methods", Arad Academic Days, 16th edition, May 12-14, Arad, **2006**

D. Condrat, A.X.Lupea - “ Evaluation of the free radical scavenging activity of ethanolic extracts from phanerogamous plants by the method DPPH, 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” Annales of the University of Craiova, 12, 167-172, **2007**, ISSN 1435-1275

D. Condrat, F.Harja, A.X.Lupea –„Determination Antiradical Activity of Vegetal Extracts” Annales of the University of 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” Annales of the University of Craiova, 12, 357-360, **2008**, ISSN 1435-1275

D. Condrat, F.Harja, A.X.Lupea –„Determination of the total content in anthocyanidis from the Alchemilla vulgaris, Allium ursinum, Acorus calmus and Solidago virga-aurea” Annales of the University of 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, Annales of the University of Craiova, 14, **2009**, ISSN 1435-1275

D. Condrat, F.Harja, A.X.Lupea, Analysis of the polyphenols from the Angiospermatophyta and Spermatophyta Plant Species, Annales of the University of Oradea, **2009**, ISSN 1583 - 4301

D. Condrat, C. Mosoarca, A.D. Zamfir, A.X. Lupea, Analysis of Pyrogallol from *Alchemilla vulgaris* extracts by Chip – Nano electrospray 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, *Annales of the University of 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.

Claudiu Ştefan Ursachi, Simona Perţa Crişan, Iolanda Tolan, Bianca Denisa Chereji, **Dumitru Condrat**, Maria Balint, Florentina Daniela Munteanu, Characterization of beeswax based oleogels with pumpkin seed oil and rapeseed oil, *Scientific and Technical Bulletin, Series : Chemistry, Food Science and Engineering*, vol.20, **2023**, Arad.

4. Works in Romanian journals not recognized by CNCSIS

5. Works published in international conferences

D. Condrat, F. Harja, -, „Vitamin C and its derivatives as antioxidant agents" 8th International Symposium „Youth and multidisciplinary research" Timisoara May 11-12, 51-54, **2006**, ISBN-10 973- 8359-39-2, ISBN-13 978-973-8359-39-0.

6. Works published in summary at international conferences

7. Works published in national conferences

8. Works published in summary at national conferences

9. Books Authors, title of the book, Publisher, City of residence of the publisher, 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" Univ. "Aurel Vlaicu", Arad, **2007**, ISBN: 978-973-752-112-5, pp.252

D. Condrat, Contributions to obtaining plant extracts (phanerogams) with antioxidant effect, Doctoral Thesis, Series 4, No. 36, Ed. Politehnica, Timisoara, **2010**, ISSN 1842 – 0223, ISBN 978 – 606 – 554 – 063 – 7, pp. 218

10.2 Laboratory guidelines.

1. N. Dincă, V. Grosu, **D. Condrat**, A. Bodescu, Organic chemistry - Practical works, "Aurel Vlaicu" University Ed., Arad **2010**, 52p, ISBN 978-973-752-288-7

2. N. Dincă, V. Grosu, **D. Condrat** - Food chemistry - Practical works - Univ."A.Vlaicu" Arad, **2010**, 56p (28p) ISBN 978-973-752-216-0

3. N. Dincă, G. Onofrei, I. Tolan, **D. Condrat**, C. Ursachi, F. Harja, Physico-chemical analyses, Practical works, Ed. Mirton, Timisoara, **2004**.

4. **D. Condrat**, C. Ursachi, Falsifications of some food products and their detection, Aurel Vlaicu University Publishing House, Arad, **2016**, 99 pg., ISBN 978-973-752-746-2.

11. Participation in scientific events and international visual arts exhibitions – 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. Lucian Copolovici, **Condrat Dumitru**, Nicolae Dincă, Calculated thermo-chemical data for discrimination by differential mass spectrometry of some C₁₀H₁₈O 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**.

6. Simona Perța Crișan, Florentina Daniela Munteanu, Iolanda Tolan, Bianca Denisa Chereji, **Dumitru Condrat**, Claudiu Ștefan Ursachi, Application of beeswax oleogels as fat

replacers in pork livers pates, The 21st Wellmann International Scientific Conference –
April, Ungaria, 2024.

30.09.2024

A handwritten signature in blue ink, appearing to be 'G. J. ...', with a horizontal line extending to the right from the end of the signature.