

**“Aurel Vlaicu” University of Arad**  
**Faculty of Food Engineering, Tourism and Environmental Protection Arad**  
**Department of Technical and Natural Sciences**

**Scientific work**  
**Phd. eng. Dicu Anca Mihaela**

**A. PhD Thesis**

“Study of antioxidant properties of some compounds from culture plants and spontaneous flora” „Dunarea de Jos” University, Galati, Romania, 2006, Doctor Field: Industrial Engineering, Phd. Supervisor professor Rodica Segal

**B. Books and chapters published**

**B1.** Dinca N., **Anca Popa (Dicu)**, Claudiu Ursachi, **1999**, Food chemistry: practical workbook, Ed. „Aurel Vlaicu” University of Arad, Arad, ISBN 973-9361-22-6, 72 pg

**B2.** Szabo Raluca Maria, **Dicu Anca**, Ursachi Claudiu, Condrat Dumitru, **2007**, Oxidation in food and biological system and methods of prevention, Ed. „Aurel Vlaicu” University of Arad, Arad, Romania, ISBN 978-973-752-112-5.

**B3.** **Dicu Anca Mihaela**, **2007**, Vegetable oils and fats, Ed. „Aurel Vlaicu” University of Arad, Arad, Romania, ISBN 978-973-752-192-7

**B4.** Mureşan Claudia, **Dicu Anca**, Palcu Sergiu, **2011**, Culinary techniques. Fundamental concepts and practical applications, Ed. „Aurel Vlaicu” University of Arad, Arad, Romania, ISBN 978-973-752-551-2

**B5.** **Dicu Anca Mihaela**, Perţa-Crişan Simona, **2012**, Quality and sensory analysis of food , Ed. „Aurel Vlaicu” University of Arad, Arad, Romania ISBN 978-973-752-612-0

**B6.** Perţa-Crişan Simona, **Dicu Anca Mihaela**, **2011**, Sensory analysis – practical application, Ed. „Aurel Vlaicu” University of Arad, Arad, Romania ISBN 978-973-752-571-0

**B7.** **Anca Mihaela Dicu** - coordinator, **2016**, “Traditional food dishes from Arad area”, ISBN EIKON 978-606-711-531-4; ISBN Şcoala Ardeleană 978-606-797-079-1, Cluj, Romania

**B8.** **Anca Mihaela Dicu** - coordinator, **2017**, “Traditional customs from Arad area”, Ed. Gutenberg of Arad, Romania, ISBN 978-606-675-157-5

**B9.** Rodica Colta, **Dicu Anca Mihaela**, **2019**, Flavor and color, Ed. Gutenberg of Arad, Arad, ISBN 978-606-675-233-6, 63 pg

**C. Indexed works ISI/BDI published**

**Indexed works ISI**

**C1.** **Dicu AM**, Cuc LD, Rad D, Rusu AI, Feher A, Isac FL, Manate D, Pallag A, Barbu FS. Exploration of Food Attitudes and Management of Eating Behavior from a Psycho-Nutritional Perspective. Healthcare. **2024**; 12(19):1934. <https://doi.org/10.3390/healthcare12191934>, Special Issue Food, Health and Society: Determinants of Eating Behavior), (IF: 2,4)

**C2.** Rad D, Marcu R, **Dicu A**, Cuc LD, Roman D, Olteanu LL, Gavrilă-Ardelean M, Kunszabo MI, Gavrilă-Ardelean L. Network Analysis of Bulimia and Eating Behavior Regulation in Subclinical Population. Psychiatry International. **2024**; 5(3):515-531. <https://doi.org/10.3390/psychiatryint5030037>, (IF: 1,2)

- C3.** Lavinia Denisia Cuc, Dana Rad, Daniel Manațe, Silviu Gabriel Szentesi, **Anca Dicu**, Mioara Florina Pantea, Vanina Adoriana Trifan, Cosmin Silviu Raul Joldeș and Graziella Corina Bâtcă-Dumitru, Representations of the Smart Green Concept and the Intention to Implement IoT in Romanian Real Estate Development, *Sustainability* **2023**, 15(10), 7777; <https://doi.org/10.3390/su15107777>, (IF: 3,3)
- C4.** Dana Rad, Gavril Rad, Roxana Maier, Edgar Demeter, **Anca Dicu**, Mihaela Popa, Daniel Alexuta, Dan Floroian, Vasile Doru Mărineanu, A Fuzzy logic modelling approach on psychological data, 2022, Special Issue of the Journal of Intelligent and Fuzzy Systems, vol. 43, no. 2, pp. 1727-1737, DOI: 10.3233/JIFS-219274, (IF-1,851)
- C4.** Muhammad Imran Tariq, Jorge Diaz-Martinez, Shariq Aziz Butt, Muhammad Adeel, Emiro De-la-Hoz-Franco, **Anca Mihaela Dicu**, **2020**, A Learners Experience with the Games Education in Software Engineering, Pages 379-395, DOI [https://doi.org/10.1007/978-3-030-52190-5\\_27](https://doi.org/10.1007/978-3-030-52190-5_27), Print ISBN 978-3-030-52189-9, Online ISBN 978-3-030-52190-5  
Advances in Intelligent Systems and Computing, vol 1222. Springer, Cham. [https://doi.org/10.1007/978-3-030-52190-5\\_27](https://doi.org/10.1007/978-3-030-52190-5_27)
- C5:** Shafqat Iqbal, Chongqi Zhang, Muhammad Arif, Yining Wang, **Anca Mihaela Dicu**, **2020**, A Comparative Study of Fuzzy Logic Regression and ARIMA Models for Prediction of Gram Production, Pages 289-299, DOI [https://doi.org/10.1007/978-3-030-52190-5\\_21](https://doi.org/10.1007/978-3-030-52190-5_21),  
Print ISBN 978-3-030-52189-9, Online ISBN 978-3-030-52190-5  
Advances in Intelligent Systems and Computing, vol 1222. Springer, Cham. [https://doi.org/10.1007/978-3-030-52190-5\\_27](https://doi.org/10.1007/978-3-030-52190-5_27)
- C6:** Marius M. Balas, Ramona Lile, Lucian Copolovici, **Anca Dicu**, Kristijan Cincar, **2020**, Human-Plant Symbiosis by Integrated Roof-Top Greenhouses, Pages 76-83, DOI [https://doi.org/10.1007/978-3-030-52190-5\\_5](https://doi.org/10.1007/978-3-030-52190-5_5), Print ISBN 978-3-030-52189-9, Online ISBN 978-3-030-52190-5, Advances in Intelligent Systems and Computing, vol 1222. Springer, Cham. [https://doi.org/10.1007/978-3-030-52190-5\\_27](https://doi.org/10.1007/978-3-030-52190-5_27)
- C7. Dicu A.M.**, Balas M.M., Sîrghie C., Radu D., Mnerie C., **2020**, Assessing the Quality of Bread by Fuzzy Weights of Sensory Attributes. In: Balas V., Jain L., Balas M., Shahbazova S. (eds) *Soft Computing Applications. SOFA 2018*. Advances in Intelligent Systems and Computing, vol 1221. Springer, Cham. [https://doi.org/10.1007/978-3-030-51992-6\\_32](https://doi.org/10.1007/978-3-030-51992-6_32); [https://link.springer.com/chapter/10.1007%2F978-3-030-51992-6\\_32](https://link.springer.com/chapter/10.1007%2F978-3-030-51992-6_32)
- C8. Dicu, Anca**, Rodica Segal, **2006**, Caracteristici spectrale și chemiluminescente ale unor plante cu rol antidiabetic, *Rev. Chim. (București)*, 57(1), 45-48 (IF-0,956)
- C9. Dicu, Anca**, Rodica Segal, Maria Giurginca, 2006, Comportarea la peroxidare a unor amestecuri de acizi grași, *Rev. Chim. (București)*, 57(4), 410-413 (IF-0,956)
- C10.** Mureșan Claudia, Ciutina V., **Dicu Anca**, Hălmăgean L., **2006**, The physicochemical characteristics of red wine from Burgund variety from Miniș vineyard, *Buletinul Universității Agricole și Medicină Veterinară Cluj-Napoca, Romania*, vol.62/2006, ISSN 1454-2382, p. 438-439, DOI:10.15835/buasvmcn-agr:1684

### **Indexed works BDI**

**C11.** Dumitru Condrat, Virgiliu Ciutina, Mihaela Meșter, **Anca Dicu**, Monica Zdremțan, Daniela Diaconescu, **2023**, Quantitative determination of some antioxidant compounds from the Vaccinum myrtills extracts, Journal of Agroalimentary.Ro/Issues/Journal, ISSN: 2069-0053 (PRINT), AGROPRINT; ISSN (ONLINE): 2068-9551, 2023, 29(2).

**C12. Anca-Mihaela Dicu**, Simona Perța-Crișan, Ionela-Marinela Rotar, Claudiu-Ștefan Ursachi, Reformulated meat product with wild garlic and chestnut flour. Journal of Agroalimentary Processes and Technologies **2022**, ISSN: 2069-0053 (PRINT) (former ISSN: 1453-1399), Agroprint; ISSN (ONLINE): 2068-9551, 28(1), 89-95, (indexată IFIS – International Food Information Service, CAS – Chemical Abstracts Service, Food Science Central from the Publishers of FSTA, Food Science and Technology Abstracts (EBSCO), European Virtual Institute for Speciation Analysis (EVISA), Science and Engineering Journal Abbreviations, Google Scholar, EBSCO, CAB Abstracts)

**C13.** Mihaela MESTER, **Anca Mihaela DICU**, Daniela DIACONESCU, Monica ZDREMTAN, Dumitru CONDRAT, **2022**, SENSORY CHARACTERISTICS OF YOGHURT FORTIFIED WITH KIWANO FRUIT, (2021): Scientific and Technical Bulletin, Series: Chemistry, Food Science and Engineering, vol. 18, pg. 18-20, ISBN 1582-1021

**C14.** Daniela Diaconescu, Monica Zdremțan, Mihaela Meșter, **Anca Dicu**, Lucian Hălmăgean, **2018**, The Adaptation of a Bread Recipe to Quinoa Seeds Addition, Journal of Agroalimentary Processes and Technologies, vol. 24, Issue 4, Pages: 263-266 ISSN: 2069-0053 (print) (former ISSN: 1453-1399), Agroprint; ISSN (online): 2068-9551

**C15.** Muresan Claudia, **Dicu Anca Mihaela**, Ciutina Virgiliu, Chambree Dorina, Ursachi Claudiu, International Symposium Prospect for the 3th Millenium Agriculture, Cluj-Napoca, Romania, vol. 68(2), ISSUE 2/**2011**, pg 357-361, ISSN 1843-52462011, Quality characteristics and standards for sunflower oil from Arad agricultural area, 10th

Muresan Claudia, **Dicu Anca Mihaela**, Raluca Szabo, Dorina Chambree; **2010**, Analisis of high oleic oil produced from sunflower grown in Arad area; 45st Croatian and 5th International Symposium on Agriculture, Opatija, Croatia, ISBN 978-953-6331-79-6,

**C17.** Ursachi Claudiu, Segal, Rodica, **Dicu, Anca**, **2009**, The usage of vacuum impregnation for improving the quality of frozen fruits, Journal of Agroalimentary Processes and Technologies, vol. XV, nr. 2, pag. 320-324, Timisoara, Romania ISSN 1453-1399.

**C18. Dicu, Anca**, **2009**, Determination of antiradical scavenging activity of some plants extracts with antidiabetes role using DPPH technique, Journal of Agroalimentary Processes and Technologies, Timisoara, Romania, vol XV nr. 1, pg 159-162, ISSN 1453-1399.

**C19. Dicu, Anca**, **2007**, Determination of antiradical action of some plant types with anti-diabetes role, 42nd Croatian and 2nd International Symposium on Agriculture, University of Zagreb, Faculty of Agriculture, Croatia, ISBN 978-953-6135-56-1, pg 100

**C20.** Mureșan Claudia, Ciutina V., **Anca Dicu**, S. Palcu, **2007** – Cromatic index evolution during superiors red wines maturation at Burgund variety; Bulletin of University of Agricultural Sciences and Veterinary Medicine, Cluj Napoca, Romania, vol.63-64, pg.662-663; ISSN 1843-5254

**C21.** Claudia Mureșan, **Anca Dicu**, N. Dincă, M. Bulancea, **2006**, Volatile compounds distinguishing from white wines; 41<sup>st</sup> Croatian Symposium on Agriculture with International Participation, University of Zagreb, Faculty of Agriculture, Croatia, ISBN 953-6331-39-X, pg. 743-745

**C22.** **Dicu, Anca**, Rodica Segal, **2006**, Evaluation of the Antiradicalic and Antioxidant Effects of Myrtilli Folium Extracts, Journal of Agroalimentary Processes and Technologies, Timisoara, vol. XII, no. 1, pg 167-174

**C23.** **Dicu Anca**, Muresan Claudia, Ivan Elisabeta; **2006**, *Determination method for antioxidant potential of some tea types*; 41<sup>st</sup> Croatian Symposium on Agriculture with International Participation, University of Zagreb, Faculty of Agriculture, Croatia, ISBN 953-6331-39-X, pg. 679-681

**C24.** Mureșan Claudia, Dincă N., Popa (Dicu) Anca, Bulancea M., **2005**, *Identification of several volatile components from red wine*; Universitatea de Științe Agricole și Medicină Veterinară a Banatului Timișoara, Scientifical Researches, Agroalimentary processes and technologies, vol. XI nr. 2, pg. 321– 326, Ed. Agroprint, Timișoara

**C25.** Mureșan (Craiu) Claudia, Popa (Dicu) Anca, Craiu I., Harja F., **2003**, *Study regarding the antiradicalic activity of red wines polyphenols* - vol. Cercetări Științifice; Procese și tehnologii alimentare, Univ. de Științe Agricole și Medicină Veterinară a Banatului, Editura Agroprint, Timișoara, pg. 49-52, ISSN 1453-1399

**C26.** Popa, A. (Dicu), Craiu, C., Diaconescu, D., Ursachi, C., **2003**, *Studies of Antioxidant Characteristics of Some Vegetable Products. II. Determination of Antioxidant Power for Some Vegetable Products Extracts*. Scientifical Researches Agroalimentary Processes and Technologies, Timisoara, vol. IX, ISSN 1453-1399, pg. 80-83

**C27.** Diaconescu, D., Popa, A. (Dicu), **2003**, *The Effects of Glucose-oxidase in Bread*, Scientifical Researches Agroalimentary Processes and Technologies, Timisoara, vol. IX, ISSN 1453-1399, pg. 66-69,

#### **D. Articles published in journals and conference volumes with reviewers (not indexed)**

**D1.** **Anca Mihaela DICU**, Claudiu Ștefan URSACHI, Svetlana Zagorka MILENCOVICI, Floarea Sofia RUS, **2022**, Rolul educației nutriționale și psihologice în optimizarea relației dietă-stare psihică, Volum conferință -Asigurarea egalității de șanse prin management educațional și servicii de asistență psihopedagogică în contextul distanțării sociale, ed. IV, Ed. PRO Universitaria București, ISBN 978-606-26-1640-3

**D2.** **Dicu Anca Mihaela**, Ursachi Claudiu Ștefan, **2020**, Tendințe nutriționale actuale în alimentația de protecție pentru copii, Volum conferință - Asigurarea egalității de șanse prin management educațional și servicii de asistență psihopedagogică în contextul distanțării sociale -, ed III, Ed. PRO Universitaria București, ISBN 978-606-26-1225-2

**D3.** Simona Perța-Crișan, Ionel Popescu-Mitroi, Claudiu Ursachi, Simona Gavrițaș, **Anca Mihaela Dicu**, Florentina-Daniela Munteanu, **2019**, Valorisation of Waste Grounded Coffee, International Symposium Research and Education in Innovation Era, 8 th Edition, Arad,

**D4.** **Anca DICU**, Claudiu URSACHI, Simona PERȚA-CRIȘAN, 2018, Antiradical activity evaluation of aqueous and alcoholic extracts from Urtica Dioica, International Symposium Research and Education in Innovation Era, 7 th Edition, Arad, poster

- D5. Anca DICU**, Claudia MUREȘAN, Simona PERȚA-CRIȘAN, Claudiu URSACHI, **2016**, Nutritional evaluation of the student menus served at the „Aurel Vlaicu” university canteen, Arad, International Symposium Research and Education in Innovation Era, 6 th Edition, Arad, poster
- D6. Anca Mihaela DICU**, Simona PERȚA CRISAN, **2014**, Spectral characterisation and determination of total antioxidant capacity of Burdock extracts using chemiluminescence technique, International Symposium Research and Education in Innovation Era, 5th Edition, Arad, oral presentation
- D7. Anca DICU**, Ioan CALINOVICI, Amelia RUS, Claudiu URSACHI, **2014**, Changes in physical properties of some fruits after vacuum impregnation treatment, International Symposium Research and Education in Innovation Era, 5th Edition, Arad, poster
- D8. Dicu Anca**, **2014**, Spectral characterization and determination of total antioxidant capacity of burdock extracts using chemiluminescence technique, Arad, poster
- D9. DICU Anca**, PERȚA-CRIȘAN Simona, MURESAN Claudia, URSACHI Claudiu, **2012**, Testing the antioxidant effect of some plant extracts on lipids, International simposion “Research and Education in Inovation Era”, Arad,
- D10. DICU Anca**, PERȚA-CRIȘAN Simona, MURESAN Claudia, URSACHI Claudiu, **2012**, Testing the antioxidant effect of some plant extracts on lipids, International Symposium Research and Education in Innovation Era, 4th Edition Arad,
- D11. MUREȘAN Claudia**, PALCU Sergiu, CIUTINA Virgiliu, DOBROMIR Daniela, **DICU Anca**, **2012**, The evolution of wine quality during technological process at superiors wines from Minis, International Symposium Research and Education in Innovation Era, 4th Edition, Arad,
- D12. Anca Dicu**, Rodica Segal, **2008**, Evaluation of the antioxidant effect of Juglandis folium extracts using the chemiluminescence technique, Arad, poster
- D13. Vannozi, G.P.**, Emferadi, S., T., **Dicu, Anca**, Szabo, Raluca; Mureșan, Claudia; Idițoiu Cornelia; **2007**, Analiza experimentală a caracteristicilor și standarde de calitate pentru uleiul de floarea soarelui tip „înalt oleic” obținut din experimentele agricole realizate în zona Arad în anul 2006, Conferința internațională Româno-Italiană „BIOSUN”, 2-3 februarie Arad
- D15. Dicu Anca**, Mureșan Claudia, Virginia Faur, **2006**, Total antioxidant activity determination of some compounds from “Favidiab” tea; Scientific and Technical Bulletin, “Aurel Vlaicu” University of Arad, Romania, Series: Chemistry, Food Science&Engineering, vol. 11, pg. 19-22, ISSN 1582-1021
- D16. Dicu Anca**, Mureșan Claudia, Virginia Faur, **2006**, Total antioxidant activity determination of some compounds from “Favidiab” tea; Scientific and Technical Bulletin, “Aurel Vlaicu” University of Arad, Series: Chemistry, Food Science&Engineering, vol. 11, pg. 19-22, ISSN 1582-1021
- D17. Mureșan Claudia**, **Dicu Anca**, Ciutina V., Palcu S., **2006**, Enzimatic mixtures utilisation in superior red wines obtaining technology; Scientific and Technical Bulletin, “Aurel Vlaicu” University of Arad, Romania, Series: Chemistry, Food Science&Engineering, vol. 11,pg. 152-155, ISSN 1582-1021
- D18. Mureșan (Craiu) Claudia**, . Hălmăgean L, **Popa (Dicu) Anca**, Iancu Gh., Canțăr Liliana, **2005**, The effects of molybdenum microelement application in stimulating symbiosis and morpho-psysiological processes for vegetables; Natural Resources and Sustainable Agriculture – International Scientific Session Oradea – Debrecen, Part I, University of Oradea Publishing House; pg. 115 - 118; RO ISBN 973-613-898-4, HU ISBN 963-9274-887

**D19.** Mureșan (Craiu) Claudia, Hălmăgean L., **Popa (Dicu) Anca**, Craiu I., Chiș S., **2005**, Pesticides application effect over the symbiotic processes in vegetable culture; Natural Resources and Sustainable Agriculture – International Scientific Session Oradea – Debrecen, Part I, University of Oradea Publishing House; pg. 119-122; RO ISBN 973 - 613-898-4, HU ISBN 963-9274-887

**D20.** Ciutină V., Mureșan (Craiu) Claudia, Hălmăgean L., **Popa (Dicu) Anca**, Iancu Gh., **2004**, Researches concerning red wine grapes maturity in conditions of Miniș-Măderat wine-state, 6 Th International Conference on Food Science, University of Szeged, ISBN 963 482 676 8

#### **E. National patent**

National patent application OSIM A/00395/ 04.06.2018

Title of the invention: *The sustainable method of ecological packaging of traditional bread (1-4 kg) without additives*

Author: Radu Dana Gina, Dicu Anca Mihaela, Sîrghie Cecilia, Diaconescu Daniela, Popescu-Mitroi Ionel

#### **F. Research projects**

**F1.** Project manager: ș.l.dr.ing. **Dicu Anca Mihaela**

Title: „*The behavior of compounds with an antioxidant role in the baking process*”,

Durata contractului: oct 2004 – iunie 2005

Financing contract: 879/28.09.2004

Total project value: 150 E

**F2.** Project manager - ș.l. dr. ing. Dicu Anca Mihaela

Project Type: Innovation Checks. Project Title: *"Innovative Eco Packaging Solution for Additive / Preservative Bread to Increase Shelf Life and Keep Freshness"*

Project code: PN-III-P2-2.1-CI-2017-0505, Financing agreement no. 12CI / 2017.

Total project value: 10000 E

**F3.** Member – ș.l. dr. ing. Dicu Anca Mihaela

Project manager: Radu Dana Gina

Project Type: Innovation Checks. Project Title: *"Functional food ingredients obtained by harvesting foliar hemp mass"* Project code: PN-III-P2-2.1-CI-2018-1392, Financing agreement no. 240CI / 2018.

Total project value: 10000

**F4.** Member - Conf.univ.dr.ing. **Dicu Anca Mihaela**

Project manager: Popa Alexandru

Project Type: *Increasing the quality of teaching, deontology and academic ethics at "Aurel Vlaicu" University in Arad*, Domain 5: Improving the quality of teaching activity, including compliance with academic deontology and ethics, Cod final de înregistrare: CNFIS-FDI-2020-0042

Total project value: 54000 E

**F5.** Member Conf.univ.dr.ing. **Dicu Anca Mihaela**

Project manager: Lile Ramona, Pantea Mioara

Project title: *Integrated measures for students' transition to the labor market*, Project cod 132639, Type proiect: POCU/626/6/13/132639,

Internship and Placement Expert, Consultant in the field of labor force

**F6.** Member Conf.univ.dr.ing. Dicu Anca Mihaela

Project manager: Copolovici Lucian

Project Type CNFIS-FDI-2023-F-0313, *Laboratory for evaluating the quality and nutritional properties of food products for student practice*, Period Desfasurare: 2023-06-01 - 2023-12-31 Total project value: 46800 E

### **Cultural projects**

**F7** Project manager: ș.l.dr.ing. **Dicu Anca Mihaela**

Arad Municipal Culture Center Project

Title: *“Promotion of culinary traditions from Arad”*, Financing contract: 6667 din 27.10. 2016,

Period: 28.10-30.11.2016

Total project value: 2700 E

**F8.** Project manager: ș.l.dr.ing. **Dicu Anca Mihaela**

Arad Municipal Culture Center Project

Title: *“Involvement of young people from Arad in supporting and promoting local culinary and cultural traditions”*, Financing contract 6069 din 01.09.2017, Period: 16.10.2017 – 15.12.2017

Total project value: 2000 E

### **G. Participation in scientific events and international visual arts exhibitions**

**G1.** International Salon of Inventions and Innovations Traian Vuia Timișoara -

15.10.2020 - Sustainable method of ecological packaging of traditional bread without additives, 1-4 kg.

**G2.** International Fair of Inventions and Innovations Inovaliment - 27.11.2020 - Sustainable method of ecological packaging of traditional bread without additives, 1-4 kg.

### **H. International awards and distinctions**

**H1.** Gold medal - International Salon of Inventions and Innovations Traian Vuia Timișoara -

15.10.2020 - Sustainable method of ecological packaging of traditional bread without additives, 1-4 kg.

**H2.** Premiul III – International Fair of Inventions and Innovations - Inovaliment - 27.11.2020 - Sustainable method of ecological packaging of traditional bread without additives, 1-4 kg.

06.09.2024

Conf.univ. dr. ing. Dicu Anca Mihaela

